

## Acad, Prof, & Personal Success (APPS)

### 1620 Current Topics: Strategies for Student Success

- (Student Option No Audit; )  
 60959 010 LEC, 9:05- 9:55 MW, Appleby Hall 103, In Person Term Based; Alyssa Maples; 1 cr.  
 60958 006 LEC, 10:10-12:05 F, Appleby Hall 226, In Person Term Based; Amber Cameron; 1 cr.  
 60995 011 LEC, 10:10-12:05 F, Appleby Hall 226, In Person Term Based; Amy Shanafelt; 1 cr.  
 61207 007 LEC, 8:00- 8:50 TTh, Peik Hall 335, In Person Term Based; Donald Riley; 1 cr.  
 61208 013 LEC, 12:20-14:15 Th, Appleby Hall 11, In Person Term Based; Hans Peterson; 1 cr.  
 61067 012 LEC, 14:30-16:25 Th, Burton Hall 123, In Person Term Based; Jen Mein; 1 cr.  
 61300 014 LEC, 17:45-19:25 M, Appleby Hall 3, In Person Term Based; Maggie Heier; 1 cr.  
 61068 001 LEC, 10:10-11:00 F, Wulling Hall 220, In Person Term Based; Anne Campbell; 1 cr.  
 60957 005 LEC, 14:30-16:25 W, Bruininks Hall 144, In Person Term Based; Jeannie Stumne; 1 cr.

### 1620H Honors Current Topics: Strategies for Student Success

- (A-F only; Prereq: CEHD Honors Student)  
 61209 001 LEC, 10:10-11:00 F, Peik Hall 335, In Person Term Based; Anne Campbell; 1 cr.

## Academic Health Center Shared (AHS)

### 1101 Orientation to Health Careers

- (Student Option No Audit; )  
 51656 001 LEC, 15:35-16:25 M, , In Person Term Based; Scott Simpson; 1 cr.

### 1102 Orientation to Health Careers

- (Student Option No Audit; )  
 53888 002 LEC, Completely Online; Scott Simpson; 1 cr.  
 53775 001 LEC, Completely Online; Scott Simpson; 1 cr.

### 1104 Experiences in Health

- (Student Option; Prereq: AHS 1101 or AHS 1102 or AHS 1600)  
 56832 001 LEC, In Person Term Based; 2 cr.

### 1601 The Future Physician II

- (Student Option; Prereq: Permission number; 1600 recommended)  
 55017 001 LEC, 15:30-16:25 W, , In Person Term Based; Tricia Todd; 1 cr.

### 1602 The Future Physician III: Experiences in Health

- (Student Option; Prereq: [1600 or 1601], instr consent)  
 56808 001 FWK, Completely Online; Tricia Todd; 2 cr.

### 2400 Writing a Personal Statement

- (S-N only; )  
 69090 003 DIS, In Person Term Based; Scott Simpson; 1 cr.  
 60811 001 DIS, 14:30-15:20 T, Moos Health Sci Tower 2-565, In Person Term Based; Scott Simpson; 1 cr.  
 60812 002 DIS, 10:10-11:00 Th, Moos Health Sci Tower 2-565, In Person Term Based; Scott Simpson; 1 cr.

### 2707 Global Health Challenges for Future Health Professionals

- (A-F only; )  
 56784 001 LEC, In Person Term Based; 2 cr.

### 3101 The New Health Professions Team

- (Student Option; Prereq: This course is recommended for junior and senior undergraduate students pursuing a health career. Students are encouraged to take this course once they have completed many of their prerequisite courses for their major and their health profession. Students are also encouraged to have had some experience working or volunteering so they have some context for the course information.)  
 69089 001 DIS, 14:30-16:25 T, , In Person Term Based; Tricia Todd; 2 cr.

### 5100 HIV Drug Discovery

- (A-F only; Prereq: One year of organic chemistry, [CHEM 2301 and 2302] or equivalent, [one semester of biochemistry], [BIOC 3021 or equivalent])

60819 001 LEC, In Person Term Based; Zhengqiang Wang; 3 cr.

## Accounting (ACCT)

### 2050 Introduction to Financial Reporting

- (A-F or Audit; Prereq: Soph)  
 58249 006 LEC, 15:45-17:25 TTh, Carlson School of Mgmt L-110, In Person Term Based; Paul White; 4 cr.  
 48179 003 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.  
 48180 004 LEC, 13:45-15:25 TTh, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.  
 48178 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.  
 48177 001 LEC, 8:00- 9:40 MW, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.  
 48181 020 LEC, 17:45-21:05 Th, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.  
 57008 005 LEC, 9:55-11:35 MW, Carlson School of Mgmt L-110, In Person Term Based; Deb Cross; 4 cr.

### 2050H Honors: Introduction to Financial Reporting

- (A-F or Audit; )  
 59726 001 LEC, 8:00- 9:40 TTh, Carlson School of Mgmt L-122, In Person Term Based; Paul White; 4 cr.

### 3001 Introduction to Management Accounting

- (A-F or Audit; Prereq: 2050)  
 48183 001 LEC, 8:15- 9:30 TTh, Hanson Hall, Room 1-102, In Person Term Based; Deb Cross; 3 cr.  
 48185 020 LEC, 17:45-20:15 T, Hanson Hall, Room 1-102, In Person Term Based; Deb Cross; 3 cr.  
 58288 003 LEC, 11:15-12:30 MW, Hanson Hall, Room 1-102, In Person Term Based; Deb Cross; 3 cr.  
 48184 002 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-102, In Person Term Based; Deb Cross; 3 cr.

### 3150 Role of the Accountant in Today's Finance Function

- (S-N only; Prereq: 2050, [accounting major or accounting certificate student])  
 57839 001 LEC, 12:20-14:00 M, Carlson School of Mgmt 2-215, In Person Term Based; Deb Cross; 1 cr.

### 3199 Internship in Public Accounting

- (S-N or Audit; Prereq: 5125, instr consent)  
 49010 001 FWK, In Person Term Based; Deb Cross; 2 cr.

### 3299 Internship in Management Accounting

- (S-N or Audit; Prereq: Acct 3201, instr consent)  
 49020 001 FWK, In Person Term Based; Deb Cross; 2 cr.

### 5101 Intermediate Accounting I

- (A-F or Audit; Prereq: Grade of at least B- in 2050, mgmt major or mgmt grad student, accounting certificate, select non mgmt students)  
 59923 003 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Clayton Forester; 4 cr.  
 48286 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.  
 55332 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.  
 56448 020 LEC, 17:45-21:05 W, Carlson School of Mgmt L-114, In Person Term Based; Deb Cross; 4 cr.

### 5102W Intermediate Accounting II

- (A-F or Audit; Prereq: 5101[ mgmt or grad mgmt student]WI)  
 48287 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.  
 52682 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.  
 57714 003 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.  
 56353 020 LEC, 17:45-21:05 Th, Carlson School of Mgmt 2-215, In Person Term Based; Deb Cross; 4 cr.

### 5125W Auditing Principles and Procedures

- (A-F or Audit; Prereq: [3101 or 5101 or 5100 or 6100], [acct major or grad mgmt student]WI)  
 66403 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Thomas Batina; 4 cr.  
 48288 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 4 cr.

### 5126 Internal Auditing

- (A-F or Audit; Prereq: 2050)  
 57620 001 LEC, 10:10-11:50 TTh, Hanson Hall, Room 1-103, In Person Term Based; Deb Cross; 2 cr.

### 5135 Fundamentals of Federal Income Tax

- (A-F or Audit; Prereq: [2050 or MBA 6030], [mgmt or grad mgmt student])  
 48289 001 LEC, 14:30-16:10 MW, Hanson Hall, Room 1-111, In Person Term Based; Deb Cross; 4 cr.  
 48290 020 LEC, 17:45-21:05 M, Hanson Hall, Room 1-111, In Person Term Based; Deb Cross; 4 cr.

### 5160 Financial Statement Analysis

- (A-F or Audit; Prereq: [5100/6100 or 3101/5101], [accounting or finance major])  
 51242 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Deb Cross; 2 cr.  
 48293 020 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-132, In Person Term Based; Deb Cross; 2 cr.

### 5180 Consolidations and Advanced Reporting

- (A-F or Audit; Prereq: 5101, 5102W recommended)  
 50561 020 LEC, 17:45-21:05 M, Hanson Hall, Room 1-105, In Person Term Based; Deb Cross; 2 cr.

### 5201 Intermediate Management Accounting

- (A-F or Audit; Prereq: 3001, acct or finance major)  
 48294 001 LEC, 10:10-11:50 TTh, Hanson Hall, Room 1-105, In Person Term Based; Deb Cross; 2 cr.  
 48295 020 LEC, 17:45-21:05 Th, Hanson Hall, Room 1-111, In Person Term Based; Deb Cross; 2 cr.

### 5236 Introduction to Taxation of Business

- (A-F or Audit; Prereq: 5135, acct major)  
 48851 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Deb Cross; 2 cr.

### 5310 International Accounting

- (A-F or Audit; Prereq: 5101; [5102 or concurrent registration is required (or allowed) in 5102] recommended)  
 55534 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-114, In Person Term Based; Deb Cross; 2 cr.

### 5420 MAcc directed study

- (Student Option; Prereq: MAcc student)  
 56029 001 IND, In Person Term Based; Deb Cross; 1-4 cr.

### 8006 Advanced Audit

- (A-F only; Prereq: MAcc student)  
 54133 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-233, In Person Term Based; Deb Cross; 4 cr.

### 8800 Empirical Research: Topics

- (Student Option; )  
 68503 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-233, In Person Term Based; Thomas Batina; 2 cr.

### 8801 Empirical Research-Valuation

- (Student Option; Prereq: Business admin PhD student or instr consent)  
 66423 001 LEC, In Person Term Based; Pervin Shroff; 4 cr.

### 8831 Theory of Contracts I: Moral Hazard and Adverse Selection

- (Student Option; )  
 66424 001 LEC, In Person Term Based; Chandra Kanodia; 2 cr.

### 8892 Readings in Accounting

- (Student Option; Prereq: Business admin PhD student or instr consent)  
 48852 001 IND, In Person Term Based; Deb Cross; 1-8 cr.

### 8894 Research in Accounting

- (Student Option; Prereq: Business admin PhD student or instr consent)  
 46809 001 IND, In Person Term Based; Deb Cross; 1-8 cr.

## Addiction Studies (ADDS)

### 5021 Introduction to Evidence Based Practices and the Helping Relationship

- (A-F or Audit; )  
 58211 002 LEC, 17:30-20:50 Th, Magrath Library 8, In Person Term Based; Debra Wamsley; 3 cr.  
 58186 001 LEC, 8:30-12:10 M, Rutan Hall B36, In Person Term Based; Laura Boisen; 3 cr.

### 5031 Applied Psychopharmacology

- (A-F or Audit; )  
 58185 001 LEC, 17:30-19:30 M, Room TBA, In Person Term Based; David Frenz; 2 cr.

**5041 Methods and Models I: Motivational Counseling**

(A-F or Audit; Prereq: 5021)  
61313 002 LEC, In Person Term Based; 2 cr.  
61314 003 LEC, In Person Term Based; 2 cr.  
58135 001 LEC, 17:00-19:00 M, Magrath Library 4, In Person Term Based; Jennifer Weigelt; 2 cr.

**5051 Methods and Models II: Cognitive Behavioral Therapy**

(A-F or Audit; Prereq: 5021)  
58187 001 LEC, 8:30-14:00 Sa, Ruttan Hall B26, In Person Term Based; Heidi Kammer-Hodge; 2 cr.  
61206 002 LEC, 19:15-21:15 M, Magrath Library 4, In Person Term Based; Jennifer Weigelt; 2 cr.

**5061 Foundations of Group Work**

(A-F or Audit; Prereq: ADDS 5021)  
58136 001 LEC, 13:20-16:15 Th, Room TBA, In Person Term Based; Julie Rohovit; 3 cr.

**5071 Foundations of Co-occurring Disorders**

(A-F or Audit; )  
59105 A94 LEC, Online & Distance Lrng (ODL); Adam Reef; 2 cr.  
59106 A95 LEC, Online & Distance Lrng (ODL); Adam Reef; 2 cr.

**5081 Multicultural Foundations of Behavioral Health**

(A-F or Audit; )  
61211 002 LEC, 12:00-15:15 Th, Ecology Building 170, In Person Term Based; Debra Wamsley; 3 cr.  
58137 001 LEC, 17:30-20:30 W, Magrath Library 6, In Person Term Based; Melanie Heu; 3 cr.

**5091 Assessment and Treatment Planning I**

(A-F or Audit; Prereq: [5001 or 5011], 5021, [5003 or 5031])  
61312 002 LEC, 17:30-20:20 T, Room TBA, In Person Term Based; Michael Van Cleve; 3 cr.  
58184 001 LEC, 17:30-20:10 M, Magrath Library 6, In Person Term Based; George Wawro; 3 cr.  
61315 003 LEC, 17:30-20:30 M, Room TBA, In Person Term Based; George Wawro; 3 cr.

**5950 Special Topics**

(A-F or Audit; Prereq: dept consent)  
57358 A94 LEC, Online & Distance Lrng (ODL); Ann Becher-Ingwalson; 1-4 cr.

**Adult Psychiatry (ADPY)****7109 Adult Psychiatry: Duluth**

(H-N or Audit; Prereq: SPECIAL INSTRUCTIONS: Students must contact the UMD Department of Family Medicine, 10 University Drive, Duluth, MN 55812 [218-726-7916] at least one month prior to quarterly cancel/add deadline.)  
48028 001 ROT, 8:00-17:00 MTWThF, , In Person Term Based; 6 cr.  
48029 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; 6 cr.

**7500 Psychiatry Externship**

(H-N or Audit; )  
48030 001 FWK, 8:30-12:30 F, , In Person Term Based; Jennifer Janacek; 6 cr.  
48031 002 FWK, 8:00-17:00 MTWThF, , In Person Term Based; Jennifer Janacek; 6 cr.

**7501 Elective Rotation in Alcohol Problems Clinics**

(H-N or Audit; Prereq: Med 7-500 and AdPy 7-500)  
48032 001 FWK, In Person Term Based; Scott McNairy; 3-6 cr.  
48033 002 FWK, In Person Term Based; Scott McNairy; 3-6 cr.

**7502 Elective Rotation in Addiction Medicine**

(H-N or Audit; Prereq: AdPy 7-500)  
48034 001 FWK, In Person Term Based; Jennifer Janacek; 6 cr.  
48035 002 FWK, In Person Term Based; Jennifer Janacek; 6 cr.

**7503 Elective Experience in Research in Addiction Medicine**

(H-N or Audit; Prereq: Approval of course director)  
48036 001 IND, In Person Term Based; 3-6 cr.  
48037 002 IND, In Person Term Based; Jennifer Janacek; 3-6 cr.

**7505 Assessment and Treatment of Torture Victims**

(H-N or Audit; Prereq: 7500, MED 7500, med sr)  
49973 001 LEC, In Person Term Based; Jennifer Janacek; 2 cr.

**7512 Medical-Surgical Psychiatry: Consultation: Liaison**

(H-N or Audit; )  
49987 001 FWK, In Person Term Based; Jennifer Janacek; 2-4 cr.

**7516 Fairview Recovery Services at Fairview-University Medical Center**

(H-N or Audit; )  
49986 001 FWK, In Person Term Based; Jennifer Janacek; 2-3 cr.

**7530 Independent Study**

(H-N or Audit; )  
49988 001 IND, In Person Term Based; Jennifer Janacek; 1-15 cr.

**7910 Adult Psychiatry Medical Residency**

(No Grade Associated; )  
56668 001 FWK, In Person Term Based; Jennifer Janacek; 6 cr.

**7930 Adult Psychiatry Medical Fellowship**

(No Grade Associated; )  
56669 001 FWK, In Person Term Based; Stephanie O'Brien; 6 cr.

**7972 Psychiatric Child Fellowship: Year I**

(H-N or Audit; Prereq: Psychiatric resident/fellow, dept consent)  
48197 001 LEC, In Person Term Based; Jonathan Jensen; 8 cr.

**Aerospace Engineering and Mech (AEM)****1905 Freshman Seminar: Aircraft and Spacecraft**

(Student Option No Audit; Prereq: Fr)  
56640 001 LEC, 15:35-17:30 T, Vincent Hall 213, In Person Term Based; Lisa Walt; 2 cr.

**2011 Statics**

(A-F or Audit; Prereq: PHYS 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], CSE)  
46724 002 DIS, 8:00- 8:50 T, Akerman Hall 211, In Person Term Based; Julie Koch; 3 cr.  
58363 004 DIS, 9:05- 9:55 T, Akerman Hall 327, In Person Term Based; Julie Koch; 3 cr.  
46725 003 DIS, 9:05- 9:55 T, Mechanical Engineering 221, 13:25-14:15 T, Akerman Hall 327, In Person Term Based; Julie Koch; 3 cr.  
46723 001 LEC, 9:05- 9:55 MWF, Keller Hall 3-230, In Person Term Based; Lisa Walt; 3 cr.

**2012 Dynamics**

(A-F or Audit; Prereq: 2011, [concurrent registration is required (or allowed) in Math 2373 or equiv], CSE student)  
46727 002 DIS, 11:15-12:05 T, Akerman Hall 215, In Person Term Based; Julie Koch; 3 cr.  
67674 004 DIS, 9:05- 9:55 T, Akerman Hall 313, In Person Term Based; Julie Koch; 3 cr.  
46728 003 DIS, 13:25-14:15 T, Akerman Hall 317, 13:25-14:15 T, Akerman Hall 313, 9:05- 9:55 T, Akerman Hall 317, In Person Term Based; Julie Koch; 3 cr.  
46726 001 LEC, 11:15-12:05 MWF, Akerman Hall 319, In Person Term Based; Lisa Walt; 3 cr.

**2021 Statics and Dynamics**

(A-F or Audit; Prereq: Phys 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], CSE)  
46731 002 DIS, 8:00- 8:50 Th, Akerman Hall 215, In Person Term Based; Julie Koch; 4 cr.  
46732 003 DIS, 12:20-13:10 Th, Akerman Hall 313, In Person Term Based; Julie Koch; 4 cr.

46733 004 DIS, 15:35-16:25 Th, Akerman Hall 317, In Person Term Based; Julie Koch; 4 cr.  
46730 001 LEC, 12:20-13:10 MTWF, Bell Museum Auditorium, In Person Term Based; Lisa Walt; 4 cr.

**2301 Mechanics of Flight**

(A-F or Audit; Prereq: PHYS 1301W, [concurrent registration is required (or allowed) in MATH 2373 or equiv], CSE)  
46734 001 LEC, 12:20-13:10 MWF, Smith Hall 231, In Person Term Based; Yohannes Ketema; 3 cr.

**3031 Deformable Body Mechanics**

(A-F or Audit; Prereq: [2011 or 2021 or [BMEN 3011, BMEN major]], [Math 2374 or equiv], [concurrent registration is required (or allowed) in Math 2373 or equiv], CSE)  
46736 002 DIS, 8:00- 8:50 Th, Akerman Hall 211, In Person Term Based; Julie Koch; 3 cr.  
46737 003 DIS, 11:15-12:05 Th, Akerman Hall 215, In Person Term Based; Julie Koch; 3 cr.  
55680 009 DIS, 15:35-16:25 Th, Akerman Hall 215, In Person Term Based; Julie Koch; 3 cr.  
46739 005 DIS, 10:10-11:00 Th, Akerman Hall 225, In Person Term Based; Julie Koch; 3 cr.  
54615 008 DIS, 9:05- 9:55 Th, Akerman Hall 313, In Person Term Based; Julie Koch; 3 cr.  
57730 011 DIS, 13:25-14:15 Th, Akerman Hall 313, In Person Term Based; Julie Koch; 3 cr.  
46740 006 DIS, 15:35-16:25 Th, Akerman Hall 313, In Person Term Based; Julie Koch; 3 cr.  
51158 007 DIS, 13:25-14:15 Th, Akerman Hall 317, In Person Term Based; Julie Koch; 3 cr.  
46738 004 DIS, 10:10-11:00 Th, Amundson Hall 162, In Person Term Based; Julie Koch; 3 cr.  
46735 001 LEC, 13:25-14:15 MWF, Bell Museum Auditorium, In Person Term Based; Ellad Tadmor; 3 cr.

**4202 Aerodynamics**

(A-F or Audit; Prereq: upper div CSE or grad, 4201)  
46752 001 LEC, 10:10-12:05 MW, Peik Gymnasium G55, In Person Term Based; Krishnan Mahesh; 4 cr.

**4203 Aerospace Propulsion**

(A-F or Audit; Prereq: 4202, [CSE upper div or grad student])  
50065 001 LEC, 12:20-14:15 TTh, Rapson Hall 45, In Person Term Based; Lisa Walt; 4 cr.

**4247 Hypersonic Aerodynamics**

(A-F only; Prereq: 4202, CSE upper division)  
68062 001 LEC, 13:25-14:15 MWF, Nicholson Hall 335, In Person Term Based; Meets With: 001 AEM 5247; Graham Candler; 3 cr.

**4295 Problems in Fluid Mechanics**

(Student Option; Prereq: dept consent)  
46750 001 IND, In Person Term Based; Lisa Walt; 1-3 cr.

**4301 Orbital Mechanics**

(A-F only; Prereq: [2012 or equiv], [MATH 2373 or equiv], [CSE upper div or grad student])  
58372 001 LEC, 15:35-16:25 MWF, Mechanical Engineering 18, In Person Term Based; Lisa Walt; 3 cr.

**4303W Flight Dynamics and Control**

(A-F only; Prereq: [2012, 2301, 3101, [WRIT 1301 or equiv], [CSE upper div or grad student]] or instr consentW)  
46741 001 LEC, 9:05- 9:55 MWF, Akerman Hall 319, In Person Term Based; Lisa Walt; 3 cr.

**4305 Spacecraft Attitude Dynamics and Control**

(A-F or Audit; Prereq: [4301, [3101 or ME 3281 or EE 3015], CSE upper div] or grad student)  
54305 001 LEC, 10:10-11:00 MWF, Akerman Hall 319, In Person Term Based; Lisa Walt; 3 cr.

**4333 Aerospace Design: Special Projects**

(Student Option; Prereq: 4331 or instr consent)  
52597 001 DIS, In Person Term Based; William Garrard; 3 cr.

**4501 Aerospace Structures**

(A-F or Audit; Prereq: CSE upper div or grad, 3031 or equiv)  
46743 001 LEC, 13:25-14:15 MWF, Smith Hall 231, In Person Term Based; Perry Leo; 3 cr.

**4511 Mechanics of Composite Materials**

(Student Option; Prereq: 3031, [CSE upper div or grad student])  
46749 001 LEC, 12:20-13:10 MWF, Mechanical Engineering 212, In Person Term Based; Lisa Walt; 3 cr.

**4595 Problems in Mechanics and Materials**  
(Student Option; Prereq: dept consent)

46751 001 IND, In Person Term Based; Lisa Walt; 1-3 cr.

**4601 Instrumentation Laboratory**

(A-F or Audit; Prereq: CSci 1113, EE 3005, EE 3006, upper div CSE or grad student)

49483 006 LAB, 8:00-11:00 F, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 49481 004 LAB, 8:00-11:00 Th, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 49479 002 LAB, 8:00-11:00 T, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 53884 008 LAB, 11:15-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 53883 007 LAB, 11:15-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 49482 005 LAB, 14:30-17:30 Th, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 49480 003 LAB, 14:30-17:30 T, ADCS Computer Lab TBA, In Person Term Based; Julie Koch; 3 cr.  
 49478 001 LEC, 14:30-15:20 MWF, Mechanical Engineering 18, In Person Term Based; Thomas Shield; 3 cr.

**4796 Professional Experience**

(A-F or Audit; Prereq: CSE upper div, AEM major, dept consent)

50261 001 FWK, In Person Term Based; William Garrard; 3 cr.

**5247 Hypersonic Aerodynamics**(A-F or Audit; Prereq: 4202 or equiv, CSE grad student)  
67684 001 LEC, 13:25-14:15 MWF, Nicholson Hall 335, In Person Term Based; Meets With: 001 AEM 4247; Graham Candler; 3 cr.**5503 Theory of Elasticity**

(A-F or Audit; Prereq: 4501 or equiv, Math 2263 or equiv or instr consent)

55836 885 LEC, 11:15-12:05 MWF, Rochester Campus Room TBA, In Person Term Based; Lisa Walt; 3 cr.  
 55834 881 LEC, 11:15-12:05 MWF, Room TBA, In Person Term Based; Richard James; 3 cr.  
 55835 883 LEC, 11:15-12:05 MWF, ONLINE, Completely Online; Richard James; 3 cr.  
 48110 001 LEC, 14:30-15:45 MW, Akerman Hall 227, In Person Term Based; Richard James; 3 cr.

**8000 Seminar: Aerospace Engineering and Mechanics**

(S-N or Audit; Prereq: DGS consent)

49018 001 LEC, 14:30-16:25 F, Akerman Hall 319, In Person Term Based; ; 1 cr.

**8202 Fluid Mechanics II**

(Student Option; Prereq: 8201)

47115 001 LEC, 11:15-12:05 MWF, Akerman Hall 225, In Person Term Based; Joseph Nichols; 3 cr.

**8232 Physical Gas Dynamics and Molecular Simulation**

(A-F or Audit; Prereq: AEM 8231)

69052 001 LEC, 9:45-11:00 TTh, Bruininks Hall 117, In Person Term Based; Thomas Schwartzentruber; 3 cr.

**8253 Computational Methods in Fluid Mechanics**

(A-F or Audit; Prereq: 4201)

68751 001 LEC, 16:00-17:15 MW, Akerman Hall 225, In Person Term Based; Krishnan Mahesh; 3 cr.

**8271 Experimental Methods in Fluid Mechanics**

(Student Option; Prereq: 4201, instr consent)

68733 001 LEC, 14:30-15:20 MW, Civil Engineering Bldg 213, In Person Term Based; Ellen Longmire; 3 cr.

**8295 Selected Topics in Fluid Mechanics**

(Student Option; Prereq: dept consent)

68740 003 IND, In Person Term Based; Julie Koch; 1-4 cr.  
58044 002 IND, In Person Term Based; Lisa Walt; 1-4 cr.**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

57724 001 IND, In Person Term Based; Julie Koch; 1 cr.

**8400 Seminar: Aerospace Systems**

(S-N or Audit; Prereq: Aerosp Eng grad student)

49268 001 LEC, 14:30-15:20 W, Akerman Hall 215, In Person Term Based; Lisa Walt; 1 cr.

49268 001 LEC, 14:30-15:20 W, Akerman Hall 215, In Person Term Based; Lisa Walt; 1 cr.

**8421 Robust Multivariable Control Design**

(Student Option; Prereq: 5321 or equiv)

55137 885 LEC, 8:15- 9:30 TTh, Rochester Campus Room TBA, Primarily Online; Lisa Walt; 3 cr.  
 55136 883 LEC, 8:15- 9:30 TTh, Room TBA, Primarily Online; Lisa Walt; 3 cr.  
 54616 001 LEC, 8:15- 9:30 TTh, Keller Hall 3-115, In Person Term Based; Meets With: 001 EE 5235; Lisa Walt; 3 cr.  
 55135 881 LEC, 8:15- 9:30 TTh, Room TBA, Primarily Online; Lisa Walt; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

57725 001 IND, In Person Term Based; Julie Koch; 1 cr.

**8495 Advanced Topics in Aerospace Systems**

(A-F or Audit; Prereq: dept consent)

58374 001 IND, In Person Term Based; Julie Koch; 1-4 cr.

**8511 Advanced Topics in Continuum Mechanics**

(A-F or Audit; Prereq: 5501 or instr consent)

67686 001 LEC, 16:00-17:15 MW, Rapson Hall 13, In Person Term Based; Richard James; 3 cr.

**8531 Fracture Mechanics**

(A-F or Audit; Prereq: 5503 or instr consent)

67687 001 LEC, 11:15-12:05 MWF, Bruininks Hal 121, In Person Term Based; Ellad Tadmor; 3 cr.

**8595 Selected Topics in Mechanics and Materials**

(Student Option; Prereq: dept consent)

58375 001 IND, In Person Term Based; Lisa Walt; 1-4 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

57726 001 IND, In Person Term Based; Julie Koch; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

57727 001 IND, In Person Term Based; Julie Koch; 1-18 cr.

**8880 Plan B Project**

(Student Option; Prereq: Grad aerospace engineering or mechanics major, dept consent)

57728 001 LEC, In Person Term Based; Julie Koch; 1-3 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

57729 001 IND, In Person Term Based; Julie Koch; 1-24 cr.

**Aerospace Studies (AIR)****1000 Leadership Laboratory**

(S-N or Audit; )

48298 001 LAB, 16:30-18:30 M, Armory Building 100, In Person Term Based; Major Peterson; 1 cr.  
50171 002 LAB, In Person Term Based; Major Peterson; 1 cr.**1104 Introduction to the Air Force Today I**

(A-F or Audit; )

58158 001 LEC, 15:35-16:25 F, Armory Building 205, In Person Term Based; Adam Bliss; 1 cr.

**1105 Introduction to the Air Force Today II**

(A-F or Audit; )

51678 004 LEC, In Person Term Based; 1 cr.  
51091 003 LEC, 9:05- 9:55 W, Armory Building 12, In Person Term Based; Adam Bliss; 1 cr.  
48242 001 LEC, In Person Term Based; Adam Bliss; 1 cr.  
48243 002 LEC, 13:25-14:15 W, Armory Building 12, In Person Term Based; Adam Bliss; 1 cr.**1204 History of Airpower and Communication Skills**

(A-F or Audit; )

52731 002 LEC, 13:25-14:15 T, Armory Building 105, In Person Term Based; David Hoopes; 1 cr.  
51680 001 LEC, 9:05- 9:55 T, Armory Building 105, In Person Term Based; David Hoopes; 1 cr.**1205 Quality Air Force, Group Leadership Problems, and Presentation Techniques**

(A-F or Audit; )

51679 004 LEC, In Person Term Based; 1 cr.  
51092 003 LEC, In Person Term Based; David Hoopes; 1 cr.  
48249 002 LEC, 10:10-11:00 T, Armory Building 12, In Person Term Based; David Hoopes; 1 cr.  
48248 001 LEC, 14:30-15:20 T, Armory Building 12, In Person Term Based; David Hoopes; 1 cr.**3302 Air Force Officership, Quality, and Communication**

(A-F or Audit; Prereq: 3301 recommended)

50815 002 LEC, In Person Term Based; Major Peterson; 3 cr.  
48280 001 LEC, 9:00-11:00 Th, Armory Building 105, In Person Term Based; Major Peterson; 3 cr.**3402 Preparation for Active Duty**

(A-F or Audit; Prereq: 3401 recommended)

52808 002 LEC, In Person Term Based; David Hoopes; 3 cr.  
48297 001 LEC, 11:15-12:30 TTh, Armory Building 105, In Person Term Based; David Hoopes; 3 cr.**African Amer & African Studies (AFRO)****1011 Introduction to African American Studies**

(Student Option; )

67722 001 LEC, 9:45-11:00 MW, Blegen Hall 260, In Person Term Based; Rose Brewer; 3 cr.

**1023W Introduction to African World Literature**

(Student Option; GP,WI,LITR)

60873 001 LEC, 14:30-15:45 MW, Blegen Hall 115, In Person Term Based; Njeri Githire; 3 cr.

**3006 Impact of African Migrations in the Atlantic World**

(A-F or Audit; )

61077 001 LEC, 13:25-14:15 MWF, Blegen Hall 105, In Person Term Based; Victoria Coifman; 3 cr.

**3108 Black Music: A History of Jazz**

(Student Option; )

55406 001 LEC, In Person Term Based; 3 cr.

**3112 In the Heart of the Beat: the Poetry of Rap**

(A-F or Audit; )

51473 001 LEC, 16:00-17:15 MW, Blegen Hall 220, In Person Term Based; Taiyon Coleman; 3 cr.

**3120 Social and Intellectual Movements in the African Diaspora**

(A-F or Audit; GP,HIS)

57458 001 LEC, In Person Term Based; 3 cr.

**3125W Black Visions of Liberation: Ella, Martin, Malcolm, and the Radical Transformation of U.S. Democracy**

(A-F only; CIV,WI)

68242 001 DIS, 16:00-18:30 M, Blegen Hall 105, In Person Term Based; Rose Brewer; 3 cr.

**3301 The Music of Black Americans**

(Student Option; AH,DSJ)

56431 001 LEC, 13:00-14:15 TTh, Blegen Hall 125, In Person Term Based; Yolanda Williams; 3 cr.

**3426 African Americans, Social Policy, and the Welfare State**

(Student Option; )

55199 001 LEC, 18:00-20:30 Th, Blegen Hall 145, In Person Term Based; Keith Mayes; 3 cr.

**3433 Economic Development in Contemporary Africa**

(Student Option; Prereq: APEC 1101 or ECON 1101GP,SOCS)

55843 001 LEC, 16:00-17:15 TTh, Blegen Hall 255, In Person Term Based; Meets With: 001 APEC 3061; Tade Okediji; 3 cr.

**3592W Introduction to Black Women Writers in the United States**  
(Student Option; DSJ,WI,LITR)

57276 001 LEC, In Person Term Based; 3 cr.

**3593 The African American Novel**  
(Student Option; )

59341 001 LEC, 14:30-15:45 TTh, Lind Hall 203, In Person Term Based; Meets With: 001 AFRO 5593001 ENGL 5593; John Wright; 3 cr.

**3598W Introduction to African American Literature and Culture II**  
(Student Option; LITR,WI)

53732 001 LEC, 11:15-13:10 TTh, Blegen Hall 135, In Person Term Based; Meets With: 001 ENGL 3598W; John Wright; 4 cr.

**3601W African Literature**  
(Student Option; GP,WI,LITR)

54559 001 LEC, In Person Term Based; 3 cr.

**3625W Black Women Writers in the Diaspora**  
(Student Option; GP,WI,LITR)

60874 001 LEC, 11:15-12:30 MW, Blegen Hall 105, In Person Term Based; Njeri Githire; 3 cr.

**3865 African American History: 1865 to the Present**  
(Student Option; )

53153 001 DIS, 11:15-12:30 TTh, Blegen Hall 425, In Person Term Based; Meets With: 001 HIST 3865; Saje Mathieu; 3-4 cr.

**3868W Race, War, and Race Wars in American History**  
(A-F only; WI)

59574 001 LEC, 13:00-14:15 TTh, Social Sciences Building 278, In Person Term Based; Malinda Lindquist; 3 cr.

**3920 Topics in African Studies**  
(Student Option; )

55667 001 LEC, In Person Term Based; 4 cr.

**3993 Directed Study**

(Student Option; Prereq:instr consent, dept consent, college consent.)

49936 001 IND, In Person Term Based; 1-3 cr.

**4112 The Beat Goes on: Advanced Studies in the Poetry of Rap**  
(A-F only; Prereq: 3112)

55198 001 LEC, In Person Term Based; 3 cr.

**4231 Color of Public Policy: African Americans, American Indians, Asian Americans & Chicanos in the U.S.**  
(Student Option; )

58155 001 LEC, 12:20-14:15 MW, Room TBA, In Person Term Based; Rose Brewer; 3 cr.

**4991W Thesis Research and Writing**  
(A-F or Audit; Prereq: dept consentWI)

59338 001 IND, In Person Term Based; 3 cr.

**5103 World History and Africa**

(A-F or Audit; Prereq: Grad student or instr consent)  
57452 001 LEC, In Person Term Based; 3 cr.

**5182W Contemporary Black Theatre: 1960-Present**  
(Student Option; WI)

60801 001 LEC, 9:05-11:00 MW, Social Sciences Building 278, In Person Term Based; Meets With: 001 TH 5182W; Dominic Taylor; 3 cr.

**5191 Seminar: The African American Experience in South Africa**  
(Student Option; )

55407 001 LEC, In Person Term Based; 3 cr.

**5593 The African American Novel**  
(Student Option; )

59342 001 LEC, 14:30-15:45 TTh, Lind Hall 203, In Person Term Based; Meets With: 001 AFRO 3593001 ENGL 5593; John Wright; 3 cr.

**5625 Black Women Writers in the Diaspora**  
(Student Option; WI)

57275 001 LEC, In Person Term Based; 3 cr.

**5993 Directed Study**

(Student Option; Prereq: instr consent)

49937 001 IND, In Person Term Based; 1-3 cr.

**8202 Seminar: Intellectual History of Race**  
(Student Option; )

54131 001 LEC, 17:30-20:15 W, Carlson School of Mgmt 1-122, In Person Term Based; Rose Brewer; 3 cr.

**8554 Seminar: Gender, Race, Nation, and Policy--Perspectives from Within the African Diaspora**  
(Student Option; Prereq: instr consent)

55201 001 LEC, In Person Term Based; 3 cr.

**Ag Industries & Marketing (AIM)**

**4011 Student Project/Field Investigation**  
(Student Option; )

52410 001 FWK, 15:00-17:00 T, Peters Hall 155, In Person Term Based; Ward Nefstead; 3 cr.

**Agri, Food, and Environ Educ (AFEE)**

**1002 Principles of Career Planning for Agricultural Professionals**  
(Student Option; )

46525 001 LEC, 15:00-16:15 W, Ruttan Hall B30, In Person Term Based; Marianne Lorensen; 1 cr.  
58774 002 LEC, 15:00-16:15 Th, ONLINE, Completely Online; Marianne Lorensen; 1 cr.

**2096 Professional Practicum in Agricultural Education: Early Experience**  
(A-F or Audit; )

46524 001 FWK, 18:00-20:00 W, Ruttan Hall B22, 18:00-20:00 W, Ruttan Hall B22, 18:00-20:00 W, Ruttan Hall B22, In Person Term Based; Marianne Lorensen; 1-3 cr.

**2421 Professional Communication for Agriculture, Food, and the Environment**  
(A-F or Audit; )

55373 001 LEC, 10:40-11:30 MW, Kaufert Laboratory 302, In Person Term Based; Rebecca Swenson; 3 cr.  
59408 004 DIS, 11:45-12:35 F, Ruttan Hall B36, In Person Term Based; Rebecca Swenson; 3 cr.  
67649 003 DIS, 9:35-10:25 F, Ruttan Hall B36, In Person Term Based; Rebecca Swenson; 3 cr.  
59407 002 DIS, 10:40-11:30 F, Ruttan Hall B36, In Person Term Based; Rebecca Swenson; 3 cr.

**3430 Communicating Food, Agriculture & Environmental Science to the Public**  
(A-F or Audit; Prereq: Sophomore standing or 30 cr)

58748 001 LEC, 13:30-14:45 W, Lrng & Environmental Sci 230, 13:30-14:45 M, Ruttan Hall B30, In Person Term Based; Rebecca Swenson; 3 cr.

**5112 Agricultural Education Program Organization and Curriculum for Youth**  
(Student Option; )

46249 001 LEC, 9:00-12:00 TWThF, Magrath Library 4, 9:00-12:00 M, Magrath Library 4, 9:00-12:00 WThF, Magrath Library 4, In Person Term Based; Amy Smith; 3 cr.

**5114 Agricultural Education Teaching Seminar**  
(Student Option; )

46523 001 LEC, 13:00-16:00 F, Magrath Library 4, 9:00-12:00 F, Magrath Library 4, 13:00-16:00 F, Magrath Library 4, In Person Term Based; Brad Greiman; 1 cr.

**5116 Coordination of SAE Programs: Work-based Learning**  
(A-F or Audit; Prereq: Agricultural education major or instr consent)

50541 001 LEC, 13:00-16:00 MTWTh, Magrath Library 4, 9:00-12:00 TWTh, Magrath Library 4, 9:00-12:00 MT, Magrath Library 4, In Person Term Based; Amy Smith; 2 cr.

**5118 Strategies for Managing and Advising the FFA Organization**  
(A-F or Audit; Prereq: Agricultural education major or instr consent)

50542 001 LEC, 13:00-16:00 TWTh, Magrath Library 4, 13:00-16:00 M, Magrath Library 4, 13:00-16:00 TTh, Magrath Library 4, In Person Term Based; Brad Greiman; 2 cr.

**5698 Teaching Internship**

(Student Option; Prereq: Admission to initial licensure program)

55593 001 LEC, In Person Term Based; Brad Greiman; 3-8 cr.

**Agronomy and Plant Genetics (AGRO)**

**1093 Directed Studies**

(Student Option; Prereq: 4 cr in agronomy, instr consent)

48313 001 IND, In Person Term Based; Lynne Medgaarden; 1-4 cr.

**1101 Biology of Plant Food Systems**  
(Student Option; BIOL)

58035 006 LAB, In Person Term Based; 4 cr.  
58034 005 LAB, 12:30-14:30 T, Plant Growth Facility 136, In Person Term Based; Lynne Medgaarden; 4 cr.  
57964 001 LEC, 13:00-14:15 MW, Bruininks Hall 412, In Person Term Based; Lynne Medgaarden; 4 cr.  
57966 003 LAB, 8:30-10:30 T, Plant Growth Facility 136, In Person Term Based; Lynne Medgaarden; 4 cr.  
57967 004 LAB, 10:30-12:30 T, Plant Growth Facility 136, In Person Term Based; Lynne Medgaarden; 4 cr.  
57965 002 LAB, 15:00-17:00 M, Plant Growth Facility 136, In Person Term Based; Lynne Medgaarden; 4 cr.

**1660W First-Year Colloquium/Experience in Agroecosystems Analysis**  
(A-F or Audit; Prereq: 1st yr in major hosted by Department of Agronomy and Plant GeneticsWI)

69045 001 LEC, 15:00-16:55 T, Magrath Library 8, In Person Term Based; Mary Brakke; 2 cr.

**3203W Environment, Global Food Production, and the Citizen**  
(Student Option; GP,WI)

47239 001 LEC, 13:30-14:45 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ANSC 3203W; Lynne Medgaarden; 3 cr.

**4005 Applied Crop Physiology and Development**

(Student Option; Prereq: [Chem 1011 or Chem 1021 or equiv], 8 cr in [biol or plant science])

50552 001 LEC, In Person Term Based; 4 cr.  
47257 002 LAB, 14:45-16:45 T, Plant Growth Facility 140B, In Person Term Based; Mary Brakke; 4 cr.

**4096 Professional Experience Program: Internship**

(Student Option; Prereq: CFANS undergrad, instr consent, completed internship contract from CFANS)

47325 001 FWK, In Person Term Based; Lynne Medgaarden; 1-3 cr.

**4097 Undergraduate Research Thesis**

(A-F only; Prereq: Jr or sr)  
67592 001 IND, In Person Term Based; Kevin Smith; 1-6 cr.

**4401 Plant Genetics and Breeding**

(Student Option; Prereq: [Biol 1009 or equiv or grad], instr consent)

47269 003 LAB, 9:35-11:05 Th, Alderman Hall 415, In Person Term Based; Meets With: 003 HORT 4401; Eric Watkins; 4 cr.  
47268 002 LAB, 7:50-9:20 Th, Alderman Hall 415, In Person Term Based; Meets With: 002 HORT 4401; Eric Watkins; 4 cr.  
47267 001 LEC, 8:30-9:20 MWF, Borlaug Hall 365, In Person Term Based; Meets With: 001 HORT 4401; Eric Watkins; 4 cr.

**4505 Biology, Ecology, and Management of Invasive Plants**

(Student Option; Prereq: 4005, [Bio 3002 or equiv], Soil 2125, [Agro 2501 or Hort 1011])  
50067 001 LEC, 11:45-13:00 TTh, Borlaug Hall 306, In Person Term Based; Donald Wyse; 3 cr.

### 5121 Applied Experimental Design

(Student Option; Prereq: Stat 5021 or equiv or instr consent)  
51062 001 LEC, 13:30-14:45 MW, Hodson Hall 490, In Person Term Based; Meets With: 001 ENT 5121; Nancy Jo Ehke; 4 cr.  
51063 002 DIS, 14:45-15:35 W, Hodson Hall 490, In Person Term Based; Meets With: 002 ENT 5121; Nancy Jo Ehke; 4 cr.

### 5321 Ecology of Agricultural Systems

(A-F or Audit; Prereq: [3xxx or above] course in [Agro or AnSc or Ent or Hort or PIPA or Soil] or instr consent)  
58168 003 DIS, 13:00-13:50 W, Borlaug Hall 306, In Person Term Based; Lynne Medgaarden; 3 cr.  
58169 002 DIS, 13:00-13:50 M, Borlaug Hall 306, In Person Term Based; Nicholas Jordan; 3 cr.  
57979 001 LEC, 11:45-13:00 MW, Borlaug Hall 306, In Person Term Based; Nicholas Jordan; 3 cr.

### 5980 Publishing in Plant Science Journals

(S-N only; Prereq: instr consent)  
59093 001 LEC, 10:00-11:50 M, Hayes Hall A408, In Person Term Based; Rex Bernardo; 2 cr.

### 8202 Breeding for Quantitative Traits in Plants

(Student Option; Prereq: [5201, STAT 5021] or instr consent)  
67591 001 LEC, 10:15-11:30 TTh, Borlaug Hall 306, In Person Term Based; Rex Bernardo; 3 cr.

### 8270 Graduate Seminar

(A-F or Audit; Prereq: Grad major in [applied plant sci or agro or ent or hort or plant brdg or plant path or soil] or instr consent)  
46572 001 LEC, 15:30-16:20 M, Borlaug Hall 306, In Person Term Based; Meets With: 001 HORT 8270; Lynne Medgaarden; 1 cr.

### 8280 Current Topics in Applied Plant Sciences

(S-N or Audit; Prereq: Grad major in agro or applied plant sciences or ent or hort or plant brdg or plant path or soil or instr consent)  
46573 001 DIS, 10:00-10:50 W, Alderman Hall 310, In Person Term Based; Meets With: 001 HORT 8280; Lynne Medgaarden; 1 cr.

## Akkadian (AKKA)

### 5012 Elementary Akkadian II

(Student Option; Prereq: 5011)  
60611 001 LEC, In Person Term Based; Eva von Dassow; 3 cr.

## American Indian Studies (AMIN)

### 1001 American Indian Peoples in the United States

(Student Option; DSJ)  
47429 001 LEC, 10:10-11:00 MWF, Elliott Hall N647, In Person Term Based; Edna Day; 3 cr.

### 1002 Indigenous Peoples in Global Perspective

(A-F or Audit; GP)  
67312 001 LEC, 14:30-15:45 TTh, Smith Hall 231, In Person Term Based; Edna Day; 3 cr.

### 1003 American Indians in Minnesota

(A-F or Audit; DSJ,HIS)  
56649 001 LEC, 11:15-12:30 TTh, Nicholson Hall 275, In Person Term Based; Alex Ghebregzi; 3 cr.  
59640 002 LEC, 10:10-11:00 MWF, Nicholson Hall 35, In Person Term Based; Neil McKay; 3 cr.

### 3201W American Indian Literature

(A-F only; DSJ,WI,LITR)  
56929 003 LEC, 18:20-20:50 T, Nicholson Hall 145, In Person Term Based; 3 cr.  
49615 002 LEC, 9:45-11:00 TTh, Nicholson Hall 145, In Person Term Based; Carter Meland; 3 cr.

### 3301 American Indian Philosophies

(Student Option; AH,DSJ)  
47676 002 LEC, 8:15- 9:30 TTh, Nicholson Hall 155, In Person Term Based; Meets With: 001 RELS 3321; Alex Ghebregzi; 4 cr.

### 3402 American Indians and the Cinema

(A-F or Audit; AH,DSJ)  
58394 001 LEC, 14:30-17:00 W, Nicholson Hall 35, In Person Term Based; Meets With: 001 AMIN 5402; Carter Meland; 3 cr.

### 3602 Archaeology and Native Americans

(Student Option; DSJ)  
60762 001 LEC, In Person Term Based; 3 cr.

### 3604 Indigenous Immersion Methods for the Home, Classroom, and Community

(A-F only; Prereq: OJIB 3104, DAKO 3124 or four semesters of another target language)  
69069 001 LEC, 18:20-20:50 M, Folwell Hall 18, In Person Term Based; Michelle Goose; 3 cr.

### 3711 Dakota Culture and History

(Student Option; DSJ,HIS)  
47777 001 LEC, 18:20-20:50 Th, Nicholson Hall 345, In Person Term Based; Edna Day; 3 cr.

### 3871 American Indian History: Pre-Contact to 1830

(Student Option; DSJ,HIS)  
61298 001 LEC, 13:00-14:15 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 HIST 3871; David Chang; 3 cr.

### 4501 Law, Sovereignty, and Treaty Rights

(Student Option; Prereq: 1001)  
59632 001 LEC, 13:00-14:15 TTh, Wulling Hall 240, In Person Term Based; Meets With: 001 POL 4507; David Wilkins; 3 cr.

### 4525W Federal Indian Policy

(Student Option; WI)  
59633 001 LEC, 14:30-17:00 M, Rapson Hall 54, In Person Term Based; Meets With: 001 POL 4525W; David Wilkins; 3 cr.

### 4990 Topics in American Indian Studies

(Student Option; )  
67358 003 LEC, In Person Term Based; 1-4 cr.

### 4994 Directed Research

(Student Option; Prereq-instr consent, dept consent, college consent.)  
49952 001 IND, In Person Term Based; 1-12 cr.

### 4996 Field Study

(Student Option; Prereq-instr consent, dept consent, college consent.)  
48717 001 FWK, In Person Term Based; 1-12 cr.

### 5402 American Indians and the Cinema

(A-F or Audit; AH,DSJ)  
58395 001 LEC, 14:30-17:00 W, Nicholson Hall 35, In Person Term Based; Meets With: 001 AMIN 3402; Carter Meland; 3 cr.

### 5920 Topics in American Indian Studies

(A-F or Audit; )  
67330 001 LEC, 15:35-16:25 MWF, Nicholson Hall 335, In Person Term Based; Brendan Fairbanks; 3 cr.

## American Sign Language (ASL)

### 1701 American Sign Language I

(Student Option; )  
61132 008 DIS, 15:00-16:55 TTh, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
54118 009 DIS, 17:10-21:00 T, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
46402 006 DIS, 8:30-10:25 TTh, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
46397 001 DIS, 8:30-10:25 MW, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
46403 007 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
46398 002 DIS, 10:40-12:35 MW, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
46400 004 DIS, 15:00-16:55 MW, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.

46401 005 DIS, 17:10-21:00 W, Lrng & Environmental Sci 140C, In Person Term Based; Mary Farquhar; 5 cr.  
46399 003 DIS, 12:50-14:45 MW, Lrng & Environmental Sci 140C, In Person Term Based; Mary Farquhar; 5 cr.

### 1702 American Sign Language II

(Student Option; Prereq: 1701 with grade of at least [S or C-] or dept consent)  
57915 007 DIS, 17:10-21:00 T, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
46406 004 DIS, 17:10-21:00 M, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
46407 005 DIS, 8:30-10:25 TTh, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
49697 001 DIS, 8:30-10:25 MW, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
46408 006 DIS, 12:50-14:45 TTh, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
46405 003 DIS, 15:00-16:55 MW, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
46404 002 DIS, 12:50-14:45 MW, Lrng & Environmental Sci 140B, In Person Term Based; Mary Farquhar; 5 cr.

### 3703 American Sign Language III

(Student Option; Prereq: 1702 with grade of at least [S or C-] or dept consent)  
49698 005 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
46411 004 DIS, 17:10-21:00 M, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
46409 001 DIS, 8:30-10:25 MW, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
46410 003 DIS, 12:50-14:45 MW, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
60549 007 DIS, 15:00-16:55 TTh, Lrng & Environmental Sci 140A, In Person Term Based; Mary Farquhar; 5 cr.

### 3704 American Sign Language IV

(Student Option; Prereq: 3703 with grade of at least [S or C-] or dept consent)  
46413 006 DIS, 17:10-21:00 T, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
46414 003 DIS, 8:30-10:25 TTh, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
46412 002 DIS, 15:00-16:55 MW, Lrng & Environmental Sci 140A, In Person Term Based; 5 cr.  
49695 004 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci 140B, In Person Term Based; 5 cr.  
49696 005 DIS, 12:50-14:45 TTh, Lrng & Environmental Sci 140C, In Person Term Based; 5 cr.  
60551 001 DIS, 10:40-12:35 MW, Lrng & Environmental Sci 140B, In Person Term Based; Mary Farquhar; 5 cr.

### 3705 Cultural Perspectives of Deafness

(Student Option; )  
46415 001 LEC, 17:10-20:00 W, Folwell Hall 30, In Person Term Based; 3 cr.

### 3800 ASL Independent Study: Extended Study

(S-N only; Prereq: Completion of or concurrent registration is required (or allowed) in 3704)  
58787 002 IND, In Person Term Based; 1-3 cr.  
58788 003 IND, In Person Term Based; 1-3 cr.  
58789 004 IND, In Person Term Based; 1-3 cr.  
58790 005 IND, In Person Term Based; 1-3 cr.  
58791 006 IND, In Person Term Based; 1-3 cr.  
58792 007 IND, In Person Term Based; 1-3 cr.  
58793 008 IND, In Person Term Based; 1-3 cr.  
58786 001 IND, In Person Term Based; Mary Farquhar; 1-3 cr.

## American Studies (AMST)

### 1011 Religions and American Identity in the United States from World War II to the Present

(Student Option; CIV)  
57493 001 DIS, 9:45-11:00 TTh, Elliott Hall N647, In Person Term Based; Riv-Ellen Prell; 3 cr.

### 2011 The United States since September 11

(Student Option; CIV,HIS)  
57717 001 DIS, 18:20-20:50 T, Bruininks Hall 220, In Person Term Based; Melanie Steinman; 3 cr.

### 3113W Global Minnesota: Diversity in the 21st Century

(Student Option; DSJ,WI)  
55445 001 LEC, 9:05-11:35 F, Nicholson Hall 335, In Person Term Based; Melanie Steinman; 3 cr.

**3252W American Popular Culture and Politics: 1900 to 1940**

(Student Option; CIV,WI,HIS)  
54844 001 LEC, 18:20-20:50 W, Smith Hall 231, In Person Term Based; ; 4 cr.

**3253W American Popular Culture and Politics: 1940 to the Present**

(Student Option; CIV,WI,HIS)  
54076 001 LEC, 11:15-12:05 W, Fraser Hall 102, 9:45-11:00 TTh, Fraser Hall 102, In Person Term Based; Elliott Powell; 4 cr.  
54553 005 DIS, In Person Term Based; Melanie Steinman; 4 cr.  
54557 010 DIS, In Person Term Based; Melanie Steinman; 4 cr.  
54554 007 DIS, In Person Term Based; Melanie Steinman; 4 cr.  
54550 002 DIS, 11:15-12:05 T, Nicholson Hall 315, In Person Term Based; Melanie Steinman; 4 cr.  
54556 009 DIS, 10:10-11:00 F, Nicholson Hall 355, In Person Term Based; Melanie Steinman; 4 cr.  
54555 008 DIS, 10:10-11:00 W, Nicholson Hall 335, In Person Term Based; Melanie Steinman; 4 cr.  
54552 004 DIS, 11:15-12:05 Th, Wulling Hall 240, In Person Term Based; Melanie Steinman; 4 cr.  
54551 003 DIS, 11:15-12:05 T, Wulling Hall 240, In Person Term Based; Melanie Steinman; 4 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent)  
48267 001 IND, In Person Term Based; ; 1-9 cr.

**4101 Gender, Sexuality, and Politics in America**

(Student Option; DSJ,HIS)  
55446 001 LEC, 12:45-14:00 TTh, Nicholson Hall 115, In Person Term Based; Kale Fajardo; 3 cr.

**4962W Second Proseminar in American Studies**

(Student Option; Prereq: AmSt sr or instr consentWI)  
53129 001 LEC, 17:00-19:30 Th, Scott Hall 4, In Person Term Based; David Karjanen; 3 cr.

**8202 Theoretical Foundations and Current Practice in American Studies**

(Student Option; Prereq: grad AmSt major or instr consent or dept consent)  
47675 001 LEC, 13:25-15:20 M, Appleby Hall 11, In Person Term Based; David Karjanen; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49086 001 IND, In Person Term Based; 1 cr.

**8401 Practicum in American Studies**

(S-N or Audit; Prereq: instr consent)  
52350 001 FWK, 13:25-15:20 M, Nicholson Hall 110, In Person Term Based; Kale Fajardo; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49186 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49269 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49375 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49503 001 IND, In Person Term Based; 1-24 cr.

**8920 Topics in American Studies**

(Student Option; )  
55592 001 LEC, 13:25-15:20 W, Nicholson Hall 120, In Person Term Based; Bianet Castellanos; 3-4 cr.

**8970 Independent Study in American Studies**

(Student Option; Prereq: instr consent, dept consent)  
47818 001 IND, In Person Term Based; ; 1-9 cr.

**Anatomy (ANAT)****3171 Principles of Human Anatomy Laboratory for Mortuary Science Students**

(Student Option; Prereq: Mortuary science student)  
57347 001 LAB, 10:10-12:05 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57353 007 LAB, 10:10-12:05 W, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57350 004 LAB, 10:10-12:05 T, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57354 008 LAB, 12:20-14:15 W, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57351 005 LAB, 12:20-14:15 T, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57348 002 LAB, 12:20-14:15 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57352 006 LAB, 14:30-16:25 T, , In Person Term Based; Anthony Weinhaus; 2 cr.  
57349 003 LAB, 14:30-16:25 M, , In Person Term Based; Anthony Weinhaus; 2 cr.

**3601 Principles of Human Anatomy**

(Student Option; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], [concurrent registration is required (or allowed) in 3602 or concurrent registration is required (or allowed) in 3612], at least soph)  
54254 001 LEC, 9:05-9:55 MWF, Bell Museum Auditorium, In Person Term Based; Anthony Weinhaus; 3 cr.

**3602 Principles of Human Anatomy Laboratory**

(Student Option; Prereq: 3001 or 3301 or INMD 3001 or 3301 or concurrent registration is required (or allowed) in 3601 or concurrent registration is required (or allowed) in 3611)  
53464 001 LAB, 10:10-12:05 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53472 008 LAB, 12:20-14:15 W, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53469 005 LAB, 12:20-14:15 T, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53465 002 LAB, 12:20-14:15 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53470 006 LAB, 14:30-16:25 T, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53467 003 LAB, 14:30-16:25 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53471 007 LAB, 10:10-12:05 W, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53468 004 LAB, 10:10-12:05 T, , In Person Term Based; Anthony Weinhaus; 2 cr.

**3608H Principles of Human Anatomy**

**Laboratory for Honors Students**  
(A-F only; Prereq: [concurrent registration is required (or allowed) in 3601 or concurrent registration is required (or allowed) in 3611] or 3001], sophomore, junior or senior, honors)  
55764 004 LAB, 9:05-12:05 Th, , 10:10-12:05 T, , In Person Term Based; Anthony Weinhaus; 3 cr.  
55736 001 LAB, 9:05-12:05 Th, , 10:10-12:05 M, , In Person Term Based; Anthony Weinhaus; 3 cr.  
55768 008 LAB, 9:05-12:05 Th, , 12:20-14:15 W, , In Person Term Based; Anthony Weinhaus; 3 cr.  
55766 006 LAB, 9:05-12:05 Th, , 14:30-16:25 T, , In Person Term Based; Anthony Weinhaus; 3 cr.  
55767 007 LAB, 9:05-12:05 Th, , 10:10-12:05 W, , In Person Term Based; Mark Cook; 3 cr.  
55765 005 LAB, 9:05-12:05 Th, , 12:20-14:15 T, , In Person Term Based; Mark Cook; 3 cr.  
55762 002 LAB, 9:05-12:05 Th, , 12:20-14:15 M, , In Person Term Based; Mark Cook; 3 cr.  
55763 003 LAB, 9:05-12:05 Th, , 14:30-16:25 M, , In Person Term Based; Mark Cook; 3 cr.

**3611 Principles of Human Anatomy**

(Student Option; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2002 or equiv], at least soph; [concurrent registration is required (or allowed) in 3602 or concurrent registration is required (or allowed) in 3612] recommended)  
53473 001 LEC, 16:30-17:45 TTh, In Person Term Based; Anthony Weinhaus; 3 cr.

**3612 Principles of Human Anatomy Laboratory**

(Student Option; Prereq: 3001 or 3301 or INMD 3001 or 3301 or concurrent registration is required (or allowed) in 3601 or concurrent registration is required (or allowed) in 3611)

53474 001 LAB, 18:00-20:00 M, , In Person Term Based; Anthony Weinhaus; 2 cr.  
53476 003 LAB, 18:00-20:00 Th, Jackson Hall 5-167, In Person Term Based; Anthony Weinhaus; 2 cr.  
53475 002 LAB, 18:00-20:00 W, Jackson Hall 5-167, In Person Term Based; Anthony Weinhaus; 2 cr.

**4900 Directed Studies in Anatomy**

(S-N only; Prereq: instr consent)  
53477 001 IND, In Person Term Based; Anthony Weinhaus; 1-6 cr.

**5525 Anatomy and Physiology of the Pelvis and Urinary System**

(A-F only; Prereq: One undergrad anatomy course, one undergrad physiology course, instr consent)  
56644 001 LAB, 8:00-17:00 WThF, , In Person Term Based; Stephen Katz; 1-2 cr.

**7600 Advanced Topics in Anatomy**

(P-N only; Prereq: instr consent)  
53509 001 LEC, In Person Term Based; Anthony Weinhaus; 1-15 cr.

**7601 Advanced Clinical Gross Anatomy I**

(P-N only; Prereq: 6150 or instr consent)  
55909 001 LAB, In Person Term Based; Jane Barnard; 2-8 cr.

**7602 Advanced Clinical Gross Anatomy II**

(P-N only; Prereq: 7601 or instr consent)  
55910 001 LEC, In Person Term Based; Jane Barnard; 2-9 cr.

**7800 Integrated Preparation for Internship**

(H-N only; Prereq: INMD 6801, instr consent)  
58176 001 LAB, 12:30-16:00 MWF, , In Person Term Based; Peter Kernahan; 4 cr.

**Anesthesiology (ANES)****5588 Advanced Clinical Physiology II for Nurse Anesthetists**

(A-F or Audit; Prereq: Advanced Clinical Physiology I for Nurse Anesthetists)  
49622 001 LEC, In Person Term Based; 3 cr.

**7015 Directed Study, Anesthesia Topics/ Project Course Development**

(H-N or Audit; )  
49623 001 LEC, In Person Term Based; 1-15 cr.

**7181 Externship in Clinical Anesthesiology**

(H-N or Audit; )  
49624 001 FWK, In Person Term Based; 3-6 cr.

**7182 Independent Study, Anesthesiology**

(H-N or Audit; )  
49625 001 IND, In Person Term Based; 1-15 cr.

**7183 Externship in Clinical Anesthesiology: Advanced Experience at Abbott NW**

(H-N or Audit; Prereq: 7181, 3 wk externship in clinical anesthesiology)  
53366 001 FWK, In Person Term Based; 3 cr.

**7186 Clinical Practice in Anesthesia**

(H-N or Audit; )  
49626 001 LEC, In Person Term Based; 15 cr.

**7286 Directed Study Anesthesia Project: Clinical**

(H-N or Audit; )  
49627 001 LEC, In Person Term Based; 1-15 cr.

**7910 Anesthesiology Medical Residency**

(No Grade Associated; )  
56671 001 FWK, In Person Term Based; 6 cr.

**7930 Anesthesiology Medical Fellowship**

(No Grade Associated; )  
56670 001 FWK, In Person Term Based; 6 cr.

**8269 Research in Anesthesia**

(Student Option; )  
49628 001 LEC, In Person Term Based; 1 cr.

**Animal Science (ANSC)****1101 Introductory Animal Science**

(Student Option; )  
 47392 001 LEC, 8:30- 9:20 MWF, Food Science & Nutrition 15, In Person Term Based; Anthony Seykora; 4 cr.  
 47393 002 LAB, 8:30-10:25 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora; 4 cr.  
 47394 003 LAB, 10:40-12:35 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora; 4 cr.  
 47395 004 LAB, 12:50-14:45 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora; 4 cr.  
 53270 005 LAB, 15:00-16:55 W, Haecker Hall 365, In Person Term Based; Anthony Seykora; 4 cr.  
 69101 702 LEC, In Person Term Based; Gary Wirkus; 4 cr.  
 68871 701 LEC, In Person Term Based; Glenn Boettcher; 4 cr.  
 69102 703 LEC, In Person Term Based; Kristy Storbakken; 4 cr.  
 68764 700 LEC, In Person Term Based; Michael Miron; 4 cr.

**1403 Companion Animal Nutrition and Care**

(Student Option; )  
 47786 001 LEC, 11:45-13:00 TTh, Ruttan Hall B45, In Person Term Based; Marshall Stern; 3 cr.

**2012 Livestock and Carcass Evaluation**

(Student Option; )  
 47398 001 LAB, 15:00-16:55 TTh, Ruttan Hall B25, In Person Term Based; Kyle Rozeboom; 3 cr.

**3007 Equine Nutrition**

(Student Option; Prereq: 2401)  
 53061 001 LEC, 13:30-14:45 TTh, Haecker Hall 205, In Person Term Based; Marcia Hathaway; 3 cr.

**3011 Statistics for Animal Science**

(Student Option; )  
 48686 001 LEC, 9:35-10:25 MWF, Ruttan Hall B35, In Person Term Based; Mary Raeth; 4 cr.  
 56722 002 LAB, 11:45-13:40 Th, Lrng & Environmental Sci 220, In Person Term Based; Mary Raeth; 4 cr.  
 56754 004 LAB, 13:55-15:50 Th, Lrng & Environmental Sci 220, In Person Term Based; Mary Raeth; 4 cr.  
 56753 003 LAB, 12:50-14:45 Th, Lrng & Environmental Sci 230, In Person Term Based; Mary Raeth; 4 cr.

**3141 Advanced Dairy Judging**

(Student Option; Prereq: 2011 or instr consent)  
 48688 001 LAB, 15:00-17:30 W, Haecker Hall 265G, In Person Term Based; Leslie Hansen; 1 cr.

**3142 Advanced Livestock Judging**

(Student Option; Prereq: 2013 or instr consent)  
 59561 001 LAB, In Person Term Based; 2 cr.

**3203W Environment, Global Food Production, and the Citizen**

(Student Option; GP, WI)  
 51316 001 LEC, 13:30-14:45 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 AGRO 3203W; Lynne Medgaarden; 3 cr.

**3301 Human and Animal Physiology**

(Student Option; Prereq: Must have taken a Biology and Chemistry course.)  
 55552 001 LEC, 12:50-13:40 MWF, Biological Sciences Ctr 64, In Person Term Based; Melissa Palmer; 3 cr.

**3302 Human and Animal Physiology Laboratory**

(Student Option; Prereq: 3301 or concurrent registration is required (or allowed) in 3301)  
 56662 001 LAB, 8:30-10:25 Th, Veterinary Science 225, In Person Term Based; Melissa Palmer; 1 cr.  
 59559 002 LAB, 10:40-12:35 Th, Veterinary Science 225, In Person Term Based; Melissa Palmer; 1 cr.  
 59560 003 LAB, 12:50-14:45 Th, Veterinary Science 225, In Person Term Based; Melissa Palmer; 1 cr.

**3307 Artificial Insemination Techniques**

(S-N or Audit; Prereq: instr consent)  
 49614 001 LAB, In Person Term Based; Anthony Seykora; 1 cr.

**3509 Animal Biotechnology**

(Student Option; Prereq: GCD 3022 or instr consent)  
 51566 001 LEC, 8:45-10:00 TTh, Ruttan Hall B30, In Person Term Based; Melissa Palmer; 3 cr.

**3511 Animal Growth and Development**

(Student Option; Prereq: College-level biology course)  
 47539 001 LEC, 10:15-11:30 TTh, Ruttan Hall B35, In Person Term Based; Marcia Hathaway; 3 cr.

**3801 Livestock Merchandising**

(Student Option; Prereq: Jr or sr or instr consent)  
 54756 001 LEC, 9:35-10:25 MWF, Ruttan Hall B26, In Person Term Based; Kyle Rozeboom; 3 cr.

**4009W Undergraduate Research Thesis**

(A-F or Audit; Prereq: Jr or sr major in AnSc, instr consentWI)  
 48143 001 IND, In Person Term Based; Laura Mauro; 1-6 cr.

**4011 Dairy Cattle Genetics**

(Student Option; Prereq: (prereq 3221, previous or current registration in 4604, at least junior status))  
 48687 001 LEC, 11:45-12:35 MWF, Ruttan Hall B22, In Person Term Based; Leslie Hansen; 3 cr.

**4092 Special Problems in Animal Science**

(Student Option; Prereq: instr consent)  
 47795 001 IND, In Person Term Based; Kim Reno; 1-4 cr.

**4093 Tutorial in Animal Science**

(Student Option; Prereq: instr consent)  
 47796 001 IND, In Person Term Based; Kim Reno; 1-4 cr.

**4099 Special Workshop in Animal Science**

(Student Option; )  
 47816 001 LEC, In Person Term Based; Anthony Seykora; 1-4 cr.  
 54028 002 LEC, In Person Term Based; Kim Reno; 1-4 cr.

**4305 Companion & Wild Species Reproduction**

(A-F only; Prereq: ANSC 3305)  
 57390 001 LEC, 12:50-14:45 T, Ruttan Hall B26, In Person Term Based; Laura Mauro; 2 cr.

**4403 Ruminant Nutrition**

(Student Option; Prereq: 2401)  
 47782 001 LEC, 10:40-11:30 MWF, Ruttan Hall B25, In Person Term Based; Marshall Stern; 3 cr.

**4602 Sheep Production Systems Management**

(Student Option; )  
 54749 001 LEC, 12:50-13:40 MW, Ruttan Hall B26, In Person Term Based; Kyle Rozeboom; 4 cr.  
 54750 002 LAB, In Person Term Based; Kyle Rozeboom; 4 cr.

**4604 Dairy Production Systems Management**

(Student Option; Prereq: Pre-req: AnSc 1101, AnSc 2401 Concurrent registration is not allowed in 4614)  
 47513 001 LEC, 15:00-15:50 T, Haecker Hall 205, 16:05-17:50 M, Ruttan Hall B30, In Person Term Based; Marcia Endres; 4 cr.  
 47514 002 LAB, 12:50-14:45 T, Ruttan Hall B30, In Person Term Based; Marcia Endres; 4 cr.

**4614 Advanced Dairy Production Systems Management**

(Student Option; Prereq: 4604)  
 48472 001 LEC, 15:00-15:50 T, Ruttan Hall B26, 16:05-17:50 M, Ruttan Hall B22, In Person Term Based; Marcia Endres; 4 cr.  
 48473 002 LAB, 12:50-14:45 T, Ruttan Hall B36, In Person Term Based; Marcia Endres; 4 cr.

**5099 Special Workshop in Animal Science**

(A-F or Audit; Prereq: instr consent)  
 49280 001 LEC, In Person Term Based; Kim Reno; 1-6 cr.  
 60808 002 LEC, In Person Term Based; F. Ponce de Leon; 1-6 cr.

**5626 Nutritional Physiology**

(A-F only; )  
 61029 001 LEC, 8:45-10:00 TTh, Ruttan Hall B26, In Person Term Based; Douglas Mashek; 3 cr.

**8141 Mixed Model Methods for Genetic Analysis**

(A-F or Audit; Prereq: 5200 or CMB 5200 or equiv)  
 55171 001 LEC, 14:00-16:00 TTh, Haecker Hall 265G, In Person Term Based; Yang Da; 2 cr.

**8194 Research in Animal Genetics**

(Student Option; Prereq: instr consent)  
 49281 001 IND, In Person Term Based; Kim Reno; 1-3 cr.

**8211 Animal Growth and Development**

(Student Option; Prereq: instr consent)  
 50187 001 LEC, In Person Term Based; William Dayton; 3 cr.

**8294 Research in Muscle Chemistry and Physiology**

(Student Option; Prereq: instr consent)  
 49282 001 IND, In Person Term Based; Kim Reno; 1-3 cr.

**8311 Animal Bioenergetics**

(A-F or Audit; Prereq: instr consent; BIOC 4331 recommended)  
 51723 001 LEC, In Person Term Based; Kim Reno; 3 cr.

**8320 Concepts and Developments in Nutritional Physiology**

(A-F or Audit; Prereq: instr consent)  
 48208 001 DIS, In Person Term Based; Kim Reno; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49087 001 IND, In Person Term Based; Kim Reno; 1 cr.

**8394 Research in Animal Nutrition**

(Student Option; Prereq: instr consent)  
 49283 001 IND, In Person Term Based; Kim Reno; 1-3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49187 001 IND, In Person Term Based; Kim Reno; 1 cr.

**8494 Research in Animal Physiology**

(Student Option; Prereq: instr consent)  
 49284 001 IND, In Person Term Based; Kim Reno; 1-3 cr.

**8510 Graduate Seminar**

(Student Option; Prereq: instr consent)  
 48804 001 LEC, 15:00-16:00 M, Haecker Hall 365, In Person Term Based; William Dayton; 1 cr.

**8594 Research in Animal Science**

(Student Option; Prereq: instr consent)  
 49285 001 IND, In Person Term Based; Kim Reno; 1-3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49270 001 IND, In Person Term Based; Kim Reno; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49376 001 IND, In Person Term Based; Kim Reno; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49504 001 IND, In Person Term Based; Kim Reno; 1-24 cr.

**Anthropology (ANTH)****1001 Human Evolution**

(Student Option; BIOL)  
 47449 020 LEC, 18:30-21:00 W, Blegen Hall 110, In Person Term Based; 4 cr.  
 67480 012 LAB, 9:05-11:00 Th, Blegen Hall 205, In Person Term Based; Kara Kersteter; 4 cr.  
 47448 013 LAB, 13:00-15:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.  
 48700 021 LAB, 18:00-20:00 Th, Blegen Hall 345, In Person Term Based; Kara Kersteter; 4 cr.  
 48701 022 LAB, 18:00-20:00 M, Blegen Hall 345, In Person Term Based; Kara Kersteter; 4 cr.  
 47441 006 LAB, 8:45-10:45 T, Blegen Hall 345, In Person Term Based; 4 cr.  
 47444 009 LAB, 9:00-11:00 W, Blegen Hall 345, In Person Term Based; 4 cr.  
 47440 005 LAB, 15:45-17:45 M, Blegen Hall 345, In Person Term Based; 4 cr.  
 47442 007 LAB, 13:00-15:00 T, Blegen Hall 345, In Person Term Based; 4 cr.  
 47446 011 LAB, 13:30-15:30 W, Blegen Hall 345, In Person Term Based; 4 cr.  
 47443 008 LAB, 15:15-17:15 T, Blegen Hall 345, In Person Term Based; 4 cr.

48537 002 LAB, 9:00-11:00 M, Blegen Hall 345, In Person Term Based; ; 4 cr.  
 47445 010 LAB, 11:15-13:15 W, Blegen Hall 345, In Person Term Based; ; 4 cr.  
 47438 003 LAB, 11:15-13:15 M, Blegen Hall 345, In Person Term Based; ; 4 cr.  
 47439 004 LAB, 13:30-15:30 M, Blegen Hall 345, In Person Term Based; ; 4 cr.  
 47437 001 LEC, 11:15-12:30 TTh, Willey Hall 175, In Person Term Based; Kara Kersteter; 4 cr.

### 1003V Understanding Cultures: Honors

(A-F only; Prereq: HonorsGP,WI,SOCS)  
 58032 002 DIS, 11:15-12:05 Th, Blegen Hall 335, In Person Term Based; Karen Ho; 4 cr.  
 58389 001 LEC, 9:45-11:00 TTh, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 1003W; Kara Kersteter; 4 cr.

### 1003W Understanding Cultures

(Student Option: GP,WI,SOCS)  
 58029 007 DIS, 11:15-12:05 Th, Blegen Hall 330, In Person Term Based; Kara Kersteter; 4 cr.  
 58027 004 DIS, 14:30-15:20 T, Blegen Hall 225, In Person Term Based; Kara Kersteter; 4 cr.  
 58026 003 DIS, 11:15-12:05 T, Blegen Hall 335, In Person Term Based; Kara Kersteter; 4 cr.  
 58030 006 DIS, 12:20-13:10 Th, Blegen Hall 335, In Person Term Based; Kara Kersteter; 4 cr.  
 58028 005 DIS, 10:10-11:00 W, Blegen Hall 430, In Person Term Based; Kara Kersteter; 4 cr.  
 58031 020 LEC, 18:20-21:30 M, Anderson Hall 330, In Person Term Based; Kara Kersteter; 4 cr.  
 58025 002 DIS, 14:30-15:20 M, Blegen Hall 225, In Person Term Based; Kara Kersteter; 4 cr.  
 50021 001 LEC, 9:45-11:00 TTh, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 1003V; Kara Kersteter; 4 cr.

### 1905 Freshman Seminar

(A-F or Audit; Prereq: Fr)  
 68187 001 LEC, 14:30-17:00 W, Blegen Hall 330, In Person Term Based; Gloria Raheja; 3 cr.

### 3002 Sex, Evolution, and Behavior:

**Examining Human Evolutionary Biology**  
 (A-F or Audit; )  
 56814 005 LAB, 11:15-12:05 Th, Blegen Hall 318, In Person Term Based; Meets With: 005 EEB 3002; Kara Kersteter; 4 cr.  
 56813 004 LAB, 11:15-12:05 W, Blegen Hall 318, In Person Term Based; Meets With: 004 EEB 3002; Kara Kersteter; 4 cr.  
 56812 003 LAB, 14:30-15:20 T, Blegen Hall 318, In Person Term Based; Meets With: 003 EEB 3002; Kara Kersteter; 4 cr.  
 56386 001 LEC, 9:45-11:00 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 EEB 3002; Michael Wilson; 4 cr.  
 56811 002 LAB, 10:10-11:00 M, Blegen Hall 318, In Person Term Based; Meets With: 002 EEB 3002; Kara Kersteter; 4 cr.

### 3003 Cultural Anthropology

(Student Option; )  
 57983 001 LEC, 13:00-14:15 MW, Blegen Hall 10, In Person Term Based; Jean Langford; 3 cr.

### 3006 Humans and Aliens: Learning Anthropology through Science Fiction

(Student Option; GP)  
 68024 001 LEC, In Person Term Based; 3 cr.

### 3015W Biology, Evolution, and cultural Development of Language

(Student Option; SOCS,WI)  
 67416 001 LEC, 13:00-14:15 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 ANTH 5015W; William Beeman; 3 cr.

### 3020 Topics in the Anthropology of Africa

(Student Option; )  
 67419 001 LEC, 9:45-11:00 TTh, Blegen Hall 255, In Person Term Based; Ramah McKay; 3-6 cr.

### 3036 The Body in Society

(Student Option; )  
 67420 001 LEC, 13:00-15:30 T, Hanson Hall, Room 1-107, In Person Term Based; David Lipset; 3 cr.

### 3049W Anthropology of Social Class

(A-F only; WI)  
 67421 001 LEC, 13:00-15:30 Th, Hanson Hall, Room 1-107, In Person Term Based; David Lipset; 3 cr.

### 3306W Medical Anthropology

(A-F or Audit; Prereq: 1003 or 1005 or entry level soc sci course recommended(GP,WI))  
 67422 001 LEC, 18:00-20:30 T, Anderson Hall 250, In Person Term Based; Ramah McKay; 3 cr.

### 3601 Archaeology and Native Americans

(Student Option; DSJ)  
 68141 001 LEC, 14:30-15:45 MW, Blegen Hall 125, In Person Term Based; Meets With: 001 ANTH 5601; Kara Kersteter; 3 cr.

### 3913 Senior Project Planning

(A-F only; Prereq: [Jr or sr] anth major, instr consent)  
 57110 007 IND, In Person Term Based; 1 cr.  
 57109 006 IND, In Person Term Based; David Lipset; 1 cr.  
 57119 016 IND, In Person Term Based; David Valentine; 1 cr.  
 57118 015 IND, In Person Term Based; Gilbert Tostevin; 1 cr.  
 57113 010 IND, In Person Term Based; Gilliane Monnier; 1 cr.  
 57114 011 IND, In Person Term Based; Gloria Raheja; 1 cr.  
 57115 012 IND, In Person Term Based; Hoon Song; 1 cr.  
 57108 005 IND, In Person Term Based; Jean Langford; 1 cr.  
 57107 004 IND, In Person Term Based; Karen Ho; 1 cr.  
 57117 014 IND, In Person Term Based; Karen-Sue Taussig; 1 cr.  
 57106 003 IND, In Person Term Based; Katherine Hayes; 1 cr.  
 57112 009 IND, In Person Term Based; Kieran McNulty; 1 cr.  
 57116 013 IND, In Person Term Based; Martha Tappen; 1 cr.  
 57121 018 IND, In Person Term Based; Michael Wilson; 1 cr.  
 57120 017 IND, In Person Term Based; Peter Wells; 1 cr.  
 57105 002 IND, In Person Term Based; Stephen Gudeman; 1 cr.  
 57111 008 IND, In Person Term Based; Stuart McLean; 1 cr.  
 47451 001 IND, In Person Term Based; William Beeman; 1 cr.

### 3980 Topics in Anthropology

(Student Option; )  
 68063 002 LEC, 11:15-12:30 MW, Blegen Hall 110, In Person Term Based; Karen-Sue Taussig; 3 cr.  
 67479 001 LEC, 18:00-20:30 M, Anderson Hall 250, In Person Term Based; Kara Kersteter; 3 cr.

### 4003W Contemporary Perspectives in Cultural Anthropology

(A-F or Audit; Prereq: [[1003 or 1005], jr] or instr consent(WI))  
 67424 001 LEC, 16:00-17:15 TTh, Blegen Hall 335, In Person Term Based; Gloria Raheja; 3 cr.

### 4007 Laboratory Techniques in Archaeology

(Student Option; Prereq: instr consent)  
 53196 001 FWK, In Person Term Based; Matt Edling; 1-4 cr.

### 4013 Senior Project

(Student Option; Prereq: sr major, instr consent)  
 57127 007 IND, In Person Term Based; 3 cr.  
 57126 006 IND, In Person Term Based; David Lipset; 3 cr.  
 57136 016 IND, In Person Term Based; David Valentine; 3 cr.  
 57135 015 IND, In Person Term Based; Gilbert Tostevin; 3 cr.  
 57130 010 IND, In Person Term Based; Gilliane Monnier; 3 cr.  
 57131 011 IND, In Person Term Based; Gloria Raheja; 3 cr.  
 57132 012 IND, In Person Term Based; Hoon Song; 3 cr.  
 57125 005 IND, In Person Term Based; Jean Langford; 3 cr.  
 57124 004 IND, In Person Term Based; Karen Ho; 3 cr.  
 57134 014 IND, In Person Term Based; Karen-Sue Taussig; 3 cr.  
 57123 003 IND, In Person Term Based; Katherine Hayes; 3 cr.  
 57129 009 IND, In Person Term Based; Kieran McNulty; 3 cr.  
 57133 013 IND, In Person Term Based; Martha Tappen; 3 cr.  
 57138 018 IND, In Person Term Based; Michael Wilson; 3 cr.  
 57137 017 IND, In Person Term Based; Peter Wells; 3 cr.  
 57122 002 IND, In Person Term Based; Stephen Gudeman; 3 cr.  
 57128 008 IND, In Person Term Based; Stuart McLean; 3 cr.  
 47499 001 IND, In Person Term Based; William Beeman; 3 cr.

### 4013H Senior Honors Thesis Project

(A-F only; Prereq: Sr major, honors student, instr consent)  
 60271 007 IND, In Person Term Based; 3 cr.  
 60270 006 IND, In Person Term Based; David Lipset; 3 cr.  
 60280 016 IND, In Person Term Based; David Valentine; 3 cr.  
 60279 015 IND, In Person Term Based; Gilbert Tostevin; 3 cr.  
 60274 010 IND, In Person Term Based; Gilliane Monnier; 3 cr.  
 60275 011 IND, In Person Term Based; Gloria Raheja; 3 cr.  
 60276 012 IND, In Person Term Based; Hoon Song; 3 cr.

60269 005 IND, In Person Term Based; Jean Langford; 3 cr.  
 60268 004 IND, In Person Term Based; Karen Ho; 3 cr.  
 60278 014 IND, In Person Term Based; Karen-Sue Taussig; 3 cr.  
 60267 003 IND, In Person Term Based; Katherine Hayes; 3 cr.  
 60273 009 IND, In Person Term Based; Kieran McNulty; 3 cr.  
 60277 013 IND, In Person Term Based; Martha Tappen; 3 cr.  
 60282 018 IND, In Person Term Based; Michael Wilson; 3 cr.  
 60281 017 IND, In Person Term Based; Peter Wells; 3 cr.  
 60266 002 IND, In Person Term Based; Stephen Gudeman; 3 cr.  
 60272 008 IND, In Person Term Based; Stuart McLean; 3 cr.  
 60265 001 IND, In Person Term Based; William Beeman; 3 cr.

### 4031W Anthropology and Social Justice

(Student Option; Prereq: 1003 or 1005 or 4003 or grad student or instr consent(CIV,WI))  
 67425 001 DIS, 11:15-12:30 TTh, Blegen Hall 260, In Person Term Based; David Valentine; 4 cr.

### 4049 Religion and Culture

(Student Option; Prereq: 1003 or 1005 or instr consent)  
 60284 001 LEC, 16:00-17:15 MW, Nicholson Hall 145, In Person Term Based; Meets With: 001 RELS 4049; Hoon Song; 3 cr.

### 4071 Race, Culture, and Vision

(A-F or Audit; Prereq: 1003 or 1005 or 3003 or instr consent)  
 68025 001 LEC, 13:00-14:15 MW, Blegen Hall 135, In Person Term Based; Hoon Song; 3 cr.

### 4075 Cultural Histories of Healing

(A-F or Audit; GP,SOCS)  
 67426 001 LEC, 11:15-12:30 TTh, Blegen Hall 120, In Person Term Based; Jean Langford; 3 cr.

### 4101 Archival Analysis for Anthropologists

(Student Option; )  
 67475 001 LEC, 9:45-11:00 MW, Blegen Hall 110, In Person Term Based; Meets With: 002 ANTH 8510; Katherine Hayes; 3 cr.

### 4121 Business Anthropology

(Student Option; )  
 59668 001 LEC, 9:30-12:00 W, Hubert H. Humphrey Center 35, In Person Term Based; Meets With: 001 ANTH 5121; William Beeman; 3 cr.

### 4344 Europe and its Margins

(A-F only; Prereq: One course in ANTH or GLOS)  
 67476 001 LEC, 11:15-12:30 MW, Blegen Hall 115, In Person Term Based; Meets With: 001 GLOS 4344; Stuart McLean; 3 cr.

### 4991 Independent Study

(Student Option; Prereq: instr consent)  
 57144 007 IND, In Person Term Based; 1-6 cr.  
 57143 006 IND, In Person Term Based; David Lipset; 1-6 cr.  
 57153 016 IND, In Person Term Based; David Valentine; 1-6 cr.  
 57152 015 IND, In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 57147 010 IND, In Person Term Based; Gilliane Monnier; 1-6 cr.  
 57148 011 IND, In Person Term Based; Gloria Raheja; 1-6 cr.  
 57149 012 IND, In Person Term Based; Hoon Song; 1-6 cr.  
 57142 005 IND, In Person Term Based; Jean Langford; 1-6 cr.  
 57141 004 IND, In Person Term Based; Karen Ho; 1-6 cr.  
 57151 014 IND, In Person Term Based; Karen-Sue Taussig; 1-6 cr.  
 57140 003 IND, In Person Term Based; Katherine Hayes; 1-6 cr.  
 57146 009 IND, In Person Term Based; Kieran McNulty; 1-6 cr.  
 57150 013 IND, In Person Term Based; Martha Tappen; 1-6 cr.  
 57155 018 IND, In Person Term Based; Michael Wilson; 1-6 cr.  
 57154 017 IND, In Person Term Based; Peter Wells; 1-6 cr.  
 57139 002 IND, In Person Term Based; Stephen Gudeman; 1-6 cr.  
 57145 008 IND, In Person Term Based; Stuart McLean; 1-6 cr.  
 47452 001 IND, In Person Term Based; William Beeman; 1-6 cr.

### 4992 Directed Readings

(Student Option; Prereq: instr consent)  
 57161 007 IND, In Person Term Based; 1-6 cr.  
 57160 006 IND, In Person Term Based; David Lipset; 1-6 cr.



57170 016 IND, In Person Term Based; David Valentine; 1-6 cr.  
 57169 015 IND, In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 57164 010 IND, In Person Term Based; Gilliane Monnier; 1-6 cr.  
 57165 011 IND, In Person Term Based; Gloria Raheja; 1-6 cr.  
 57166 012 IND, In Person Term Based; Hoon Song; 1-6 cr.  
 57159 005 IND, In Person Term Based; Jean Langford; 1-6 cr.  
 57158 004 IND, In Person Term Based; Karen Ho; 1-6 cr.  
 57168 014 IND, In Person Term Based; Karen-Sue Taussig; 1-6 cr.  
 57157 003 IND, In Person Term Based; Katherine Hayes; 1-6 cr.  
 57163 009 IND, In Person Term Based; Kieran McNulty; 1-6 cr.  
 57167 013 IND, In Person Term Based; Martha Tappen; 1-6 cr.  
 57172 018 IND, In Person Term Based; Michael Wilson; 1-6 cr.  
 57171 017 IND, In Person Term Based; Peter Wells; 1-6 cr.  
 57156 002 IND, In Person Term Based; Stephen Gudeman; 1-6 cr.  
 57162 008 IND, In Person Term Based; Stuart McLean; 1-6 cr.  
 47453 001 IND, In Person Term Based; William Beeman; 1-6 cr.

#### 4993 Directed Study

(Student Option; Prereq: instr consent)

57178 007 IND, In Person Term Based; 1-6 cr.  
 57177 006 IND, In Person Term Based; David Lipset; 1-6 cr.  
 57187 016 IND, In Person Term Based; David Valentine; 1-6 cr.  
 57186 015 IND, In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 57181 010 IND, In Person Term Based; Gilliane Monnier; 1-6 cr.  
 57182 011 IND, In Person Term Based; Gloria Raheja; 1-6 cr.  
 57183 012 IND, In Person Term Based; Hoon Song; 1-6 cr.  
 57176 005 IND, In Person Term Based; Jean Langford; 1-6 cr.  
 57175 004 IND, In Person Term Based; Karen Ho; 1-6 cr.  
 57185 014 IND, In Person Term Based; Karen-Sue Taussig; 1-6 cr.  
 57174 003 IND, In Person Term Based; Katherine Hayes; 1-6 cr.  
 57180 009 IND, In Person Term Based; Kieran McNulty; 1-6 cr.  
 57184 013 IND, In Person Term Based; Martha Tappen; 1-6 cr.  
 57189 018 IND, In Person Term Based; Michael Wilson; 1-6 cr.  
 57188 017 IND, In Person Term Based; Peter Wells; 1-6 cr.  
 57173 002 IND, In Person Term Based; Stephen Gudeman; 1-6 cr.  
 57179 008 IND, In Person Term Based; Stuart McLean; 1-6 cr.  
 47454 001 IND, In Person Term Based; William Beeman; 1-6 cr.

#### 4994W Directed Research

(Student Option; Prereq: instr consentWI)

57195 007 IND, In Person Term Based; 1-6 cr.  
 57194 006 IND, In Person Term Based; David Lipset; 1-6 cr.  
 57204 016 IND, In Person Term Based; David Valentine; 1-6 cr.  
 57203 015 IND, In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 57198 010 IND, In Person Term Based; Gilliane Monnier; 1-6 cr.  
 57199 011 IND, In Person Term Based; Gloria Raheja; 1-6 cr.  
 57200 012 IND, In Person Term Based; Hoon Song; 1-6 cr.  
 57193 005 IND, In Person Term Based; Jean Langford; 1-6 cr.  
 57192 004 IND, In Person Term Based; Karen Ho; 1-6 cr.  
 57202 014 IND, In Person Term Based; Karen-Sue Taussig; 1-6 cr.  
 57191 003 IND, In Person Term Based; Katherine Hayes; 1-6 cr.  
 57197 009 IND, In Person Term Based; Kieran McNulty; 1-6 cr.  
 57201 013 IND, In Person Term Based; Martha Tappen; 1-6 cr.  
 57206 018 IND, In Person Term Based; Michael Wilson; 1-6 cr.  
 57196 008 IND, In Person Term Based; Stuart McLean; 1-6 cr.  
 47455 001 IND, In Person Term Based; William Beeman; 1-6 cr.  
 57205 017 IND, In Person Term Based; Peter Wells; 1-6 cr.  
 57190 002 IND, In Person Term Based; Stephen Gudeman; 1-6 cr.

#### 5009 Human Behavioral Biology

(A-F or Audit; )

67477 001 LEC, 11:15-12:30 TTh, Blegen Hall 115, In Person Term Based; Michael Wilson; 3 cr.

#### 5015W Biology, Evolution, and Cultural Development of Language

(Student Option; SOCS,WI)

67417 001 LEC, 13:00-14:15 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 ANTH 3015W; William Beeman; 3 cr.

#### 5121 Business Anthropology

(Student Option; Prereq: MBA student)

59669 001 LEC, 9:30-12:00 W, Hubert H. Humphrey Center 35, In Person Term Based; Meets With: 001 ANTH 4121; William Beeman; 2 cr.

#### 5244 Interpreting Ancient Bone

(A-F or Audit; Prereq: 1001)

59672 001 LAB, 13:00-15:30 Th, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 8244; Kara Kersteter; 4 cr.

#### 5444 Archaeological Ceramics

(A-F only; Prereq: 3001 or instr consent)

67478 001 LAB, In Person Term Based; 4 cr.

#### 5446 Archaeology of Representation as Communication

(A-F only; )

54045 001 LEC, 14:30-16:25 Th, Hubert H. Humphrey Center 389, In Person Term Based; Meets With: 001 ANTH 8510; Peter Wells; 3 cr.

#### 5448 Applied Heritage Management

(A-F only; )

58004 001 LEC, 14:30-17:00 M, Blegen Hall 215, In Person Term Based; Scott Anfinson; 3 cr.

#### 5601 Archaeology and Native Americans

(Student Option; DSJ)

68142 001 LEC, 14:30-15:45 MW, Blegen Hall 125, In Person Term Based; Meets With: 001 ANTH 3601; Kara Kersteter; 3 cr.

#### 5980 Topics in Anthropology

(Student Option; )

68569 003 LEC, 11:15-12:30 TTh, Keller Hall 2-260, In Person Term Based; Meets With: 002 LING 5900; Polly Szatrowski; 3 cr.

#### 8002 Ethnography: Contemporary Theory and Practice

(A-F or Audit; )

67380 001 LEC, 12:00-14:00 T, Hubert H. Humphrey Center 389, In Person Term Based; Karen-Sue Taussig; 3 cr.

#### 8230 Anthropological Research Design

(A-F or Audit; Prereq: Anth grad student or instr consent)

67381 001 LEC, 14:30-17:00 W, Hubert H. Humphrey Center 389, In Person Term Based; Gilliane Monnier; 3 cr.

#### 8244 Interpreting Ancient Bone

(A-F or Audit; Prereq: instr consent)

67481 001 LAB, 13:00-15:30 Th, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 5244; Kara Kersteter; 4 cr.

#### 8333 FTE: Masters

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49088 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49188 001 IND, In Person Term Based; 1 cr.

#### 8510 Topics in Archaeology

(Student Option; )

69053 002 LEC, 9:45-11:00 MW, Blegen Hall 110, In Person Term Based; Meets With: 001 ANTH 4101; Katherine Hayes; 3 cr.

54079 001 LEC, 14:30-16:25 Th, Hubert H. Humphrey Center 389, In Person Term Based; Meets With: 001 ANTH 5446; Peter Wells; 3 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept

consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49271 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49377 001 IND, In Person Term Based; 1-18 cr.

#### 8810 Topics in Sociocultural Anthropology

(Student Option; )

61070 004 LEC, 11:45-14:15 F, Social Sciences Building 1114, In Person Term Based; Meets With: 004 SOC 8090; Ann Miller; 3-9 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49505 001 IND, In Person Term Based; 1-24 cr.

#### 8991 Independent Study

(Student Option; Prereq: instr consent)

57212 007 IND, In Person Term Based; 1-18 cr.  
 57211 006 IND, In Person Term Based; David Lipset; 1-18 cr.  
 57220 016 IND, In Person Term Based; David Valentine; 1-18 cr.  
 57223 015 IND, In Person Term Based; Gilbert Tostevin; 1-18 cr.  
 57215 010 IND, In Person Term Based; Gilliane Monnier; 1-18 cr.  
 57216 011 IND, In Person Term Based; Gloria Raheja; 1-18 cr.  
 57217 012 IND, In Person Term Based; Hoon Song; 1-18 cr.  
 57210 005 IND, In Person Term Based; Jean Langford; 1-18 cr.  
 57209 004 IND, In Person Term Based; Karen Ho; 1-18 cr.  
 57219 014 IND, In Person Term Based; Karen-Sue Taussig; 1-18 cr.  
 57208 003 IND, In Person Term Based; Katherine Hayes; 1-18 cr.  
 57214 009 IND, In Person Term Based; Kieran McNulty; 1-18 cr.  
 57218 013 IND, In Person Term Based; Martha Tappen; 1-18 cr.  
 57222 018 IND, In Person Term Based; Michael Wilson; 1-18 cr.  
 57221 017 IND, In Person Term Based; Peter Wells; 1-18 cr.  
 57207 002 IND, In Person Term Based; Stephen Gudeman; 1-18 cr.  
 57213 008 IND, In Person Term Based; Stuart McLean; 1-18 cr.  
 47456 001 IND, In Person Term Based; William Beeman; 1-18 cr.

#### 8992 Directed Reading

(Student Option; Prereq: instr consent)

57229 007 IND, In Person Term Based; 1-18 cr.  
 57228 006 IND, In Person Term Based; David Lipset; 1-18 cr.  
 57238 016 IND, In Person Term Based; David Valentine; 1-18 cr.  
 57237 015 IND, In Person Term Based; Gilbert Tostevin; 1-18 cr.  
 57232 010 IND, In Person Term Based; Gilliane Monnier; 1-18 cr.  
 57233 011 IND, In Person Term Based; Gloria Raheja; 1-18 cr.  
 57234 012 IND, In Person Term Based; Hoon Song; 1-18 cr.  
 57227 005 IND, In Person Term Based; Jean Langford; 1-18 cr.  
 57226 004 IND, In Person Term Based; Karen Ho; 1-18 cr.  
 57236 014 IND, In Person Term Based; Karen-Sue Taussig; 1-18 cr.  
 57225 003 IND, In Person Term Based; Katherine Hayes; 1-18 cr.  
 57231 009 IND, In Person Term Based; Kieran McNulty; 1-18 cr.  
 57235 013 IND, In Person Term Based; Martha Tappen; 1-18 cr.  
 57240 018 IND, In Person Term Based; Michael Wilson; 1-18 cr.  
 57239 017 IND, In Person Term Based; Peter Wells; 1-18 cr.  
 57224 002 IND, In Person Term Based; Stephen Gudeman; 1-18 cr.  
 57230 008 IND, In Person Term Based; Stuart McLean; 1-18 cr.  
 47457 001 IND, In Person Term Based; William Beeman; 1-18 cr.

#### 8993 Directed Study

(Student Option; Prereq: instr consent)

57246 007 IND, In Person Term Based; 1-18 cr.  
 57245 006 IND, In Person Term Based; David Lipset; 1-18 cr.  
 57255 016 IND, In Person Term Based; David Valentine; 1-18 cr.

57254 015 IND, In Person Term Based; Gilbert Tostevin; 1-18 cr.  
 57249 010 IND, In Person Term Based; Gilliane Monnier; 1-18 cr.  
 57250 011 IND, In Person Term Based; Gloria Raheja; 1-18 cr.  
 57251 012 IND, In Person Term Based; Hoon Song; 1-18 cr.  
 57244 005 IND, In Person Term Based; Jean Langford; 1-18 cr.  
 57243 004 IND, In Person Term Based; Karen Ho; 1-18 cr.  
 57253 014 IND, In Person Term Based; Karen-Sue Taussig; 1-18 cr.  
 57242 003 IND, In Person Term Based; Katherine Hayes; 1-18 cr.  
 57248 009 IND, In Person Term Based; Kieran McNulty; 1-18 cr.  
 57252 013 IND, In Person Term Based; Martha Tappen; 1-18 cr.  
 57257 018 IND, In Person Term Based; Michael Wilson; 1-18 cr.  
 57256 017 IND, In Person Term Based; Peter Wells; 1-18 cr.  
 57241 002 IND, In Person Term Based; Stephen Gudeman; 1-18 cr.  
 57247 008 IND, In Person Term Based; Stuart McLean; 1-18 cr.  
 47458 001 IND, In Person Term Based; William Beeman; 1-18 cr.

### 8994 Directed Research

(Student Option; Prereq: instr consent)  
 56954 007 FWK, In Person Term Based; 1-18 cr.  
 56953 006 FWK, In Person Term Based; David Lipset; 1-18 cr.  
 56963 016 FWK, In Person Term Based; David Valentine; 1-18 cr.  
 56962 015 FWK, In Person Term Based; Gilbert Tostevin; 1-18 cr.  
 56957 010 FWK, In Person Term Based; Gilliane Monnier; 1-18 cr.  
 56958 011 FWK, In Person Term Based; Gloria Raheja; 1-18 cr.  
 56951 004 FWK, In Person Term Based; Karen Ho; 1-18 cr.  
 56961 014 FWK, In Person Term Based; Karen-Sue Taussig; 1-18 cr.  
 56950 003 FWK, In Person Term Based; Katherine Hayes; 1-18 cr.  
 56956 009 FWK, In Person Term Based; Kieran McNulty; 1-18 cr.  
 56960 013 FWK, In Person Term Based; Martha Tappen; 1-18 cr.  
 56965 018 FWK, In Person Term Based; Michael Wilson; 1-18 cr.  
 56964 017 FWK, In Person Term Based; Peter Wells; 1-18 cr.  
 56949 002 FWK, In Person Term Based; Stephen Gudeman; 1-18 cr.  
 56955 008 FWK, In Person Term Based; Stuart McLean; 1-18 cr.  
 47459 001 FWK, In Person Term Based; William Beeman; 1-18 cr.  
 56959 012 FWK, In Person Term Based; Hoon Song; 1-18 cr.  
 56952 005 FWK, In Person Term Based; Jean Langford; 1-18 cr.

## Apparel Design (ADES)

### 2211 Fashion Illustration and Portfolio Development

(A-F or Audit; Prereq: Apparel Design Major or Pre-Major)  
 60457 001 LAB, 12:50-15:50 TTh, McNeal Hall 305, In Person Term Based; 4 cr.

### 2214 Softlines Analysis

(A-F or Audit; Prereq: DHA major or minor or instr consent)  
 56065 001 LAB, 8:45-10:00 MW, McNeal Hall 10, In Person Term Based; ; 3 cr.  
 57968 002 LAB, 10:15-11:30 MW, McNeal Hall 10, In Person Term Based; ; 3 cr.

### 2221 Apparel Design Studio I

(A-F or Audit; Prereq: [DHA 1201 or RM 1201], [1221 or DHA 1221], apparel design premajor)  
 56066 001 LAB, 12:50-15:50 MW, McNeal Hall 212, In Person Term Based; Lindsey Strange; 4 cr.

### 3223 Apparel Design Studio III

(A-F or Audit; Prereq: [2222 or DHA 2222] with grade of at least C-, Apparel Design major, pass portfolio review)  
 57356 001 LAB, 8:30-11:30 TTh, McNeal Hall 205, In Person Term Based; Lindsey Strange; 4 cr.

### 3224 Apparel Design Studio IV

(A-F or Audit; Prereq: [2213 or DHA 2213], [3223 or DHA 3223] with grade of at least C-, apparel design major)  
 56070 001 LAB, 9:35-12:35 MW, McNeal Hall 212, In Person Term Based; Lucy Dunne; 4 cr.

### 3225 Apparel Design Research

(A-F only; Prereq: 3324 or concurrent registration is required (or allowed) in DHA 3224)  
 56071 001 LEC, 15:00-16:55 T, McNeal Hall 146, In Person Term Based; Elizabeth Bye; 1 cr.

### 4121 History of Costume

(A-F or Audit; )  
 56072 001 LEC, 12:50-14:45 MW, McNeal Hall 10, In Person Term Based; Meets With: 001 APST 5121; Marilyn DeLong; 4 cr.

### 4160H Honors Capstone Project

(A-F only; Prereq: DHA honors)  
 56073 001 LEC, In Person Term Based; Elizabeth Bye; 2 cr.  
 56074 003 LEC, In Person Term Based; Lucy Dunne; 2 cr.  
 56109 004 LEC, In Person Term Based; Marilyn DeLong; 2 cr.

### 4215 Product Development: Softlines

(A-F or Audit; Prereq: 2213 or DHA 2213 or apparel design major or clothing design major or retail merchandising major or instr consent)  
 56080 001 LEC, 13:55-14:45 TTh, McNeal Hall 10, In Person Term Based; ; 4 cr.  
 56081 002 LAB, 15:00-16:55 TTh, McNeal Hall 10, In Person Term Based; ; 4 cr.  
 59752 003 LAB, 15:00-16:55 TTh, McNeal Hall 322, In Person Term Based; ; 4 cr.

## Apparel Studies (APST)

### 5117 Retail Environments and Human Behavior

(A-F or Audit; Prereq: Grad student or instr consent)  
 57650 001 DIS, Completely Online; Juanjuan Wu; 3 cr.

### 5121 History of Costume

(A-F only; )  
 56731 001 DIS, 12:50-14:45 MW, McNeal Hall 10, In Person Term Based; Meets With: 001 ADES 4121; Marilyn DeLong; 4 cr.

### 5193 Directed Study in Apparel Studies

(A-F or Audit; Prereq: instr consent)  
 56082 001 IND, In Person Term Based; Elizabeth Bye; 1-4 cr.  
 56340 006 IND, In Person Term Based; Hye-Young Kim; 1-4 cr.  
 56339 005 IND, In Person Term Based; Kim Johnson; 1-4 cr.  
 56083 003 IND, In Person Term Based; Lucy Dunne; 1-4 cr.  
 56084 004 IND, In Person Term Based; Marilyn DeLong; 1-4 cr.  
 58356 008 IND, In Person Term Based; Hyunjoo Im; 1-4 cr.  
 56341 007 IND, In Person Term Based; Juanjuan Wu; 1-4 cr.

### 8272 Multichannel Consumers: Theories in Retail and Consumer Studies

(A-F or Audit; Prereq: DES 8102 or equivalent quantitative methods class)  
 65588 001 LEC, 8:30-11:30 W, McNeal Hall 146, In Person Term Based; Hyunjoo Im; 3 cr.

## Applied Business (ABUS)

### 3051 Career Skills in the Professional Environment for Juniors and Seniors (Student Option; Prereq: preferred 60 cr; junior or senior)

56460 A94 LEC, Online & Distance Lrng (ODL); Lori Bonderson; 2 cr.  
 57417 A95 LEC, Online & Distance Lrng (ODL); Lori Bonderson; 2 cr.

### 3301 Introduction to Quality Management

(A-F or Audit; Prereq: Introductory statistics)  
 54752 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4022 Management in Organizations

(A-F or Audit; Prereq: 45 cr completed)  
 50200 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4023W Communicating for Results

(A-F or Audit; Prereq: 45 cr completedWI)  
 54751 A94 LEC, Online & Distance Lrng (ODL); Ann Lowry; 3 cr.  
 61310 A96 LEC, Online & Distance Lrng (ODL); Ann Lowry; 3 cr.  
 55889 A95 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4041 Dynamics of Leadership

(A-F or Audit; Prereq: 45 cr completed)  
 50444 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4043 Project Management in Practice

(A-F or Audit; Prereq: 45 cr completed)  
 59618 A94 LEC, Online & Distance Lrng (ODL); Valarie Griep; 3 cr.

### 4101 Accounting and Finance for Managers

(A-F or Audit; Prereq: Financial accounting, 45 cr)  
 50037 A94 LEC, Online & Distance Lrng (ODL); Scott Martens; 3 cr.

### 4104 Management and Human Resource Practices

(A-F or Audit; Prereq: 45 cr completed)  
 49432 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4151 Innovation for Leaders and Organizations

(A-F or Audit; Prereq: 45 cr)  
 54838 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4321 Evaluating Performance Excellence in Organizations

(S-N or Audit; Prereq: Submit MNQA evaluator application)  
 61307 001 IND, In Person Term Based; Brian Lassiter; 3 cr.  
 61307 001 IND, In Person Term Based; Brian Lassiter; 3 cr.  
 61307 001 IND, In Person Term Based; Brian Lassiter; 3 cr.

### 4509 New Product Development

(A-F or Audit; Prereq: [I4103 or 4701 or Mktg 3001], at least 45 cr] or instr consent)  
 59077 A94 LEC, Online & Distance Lrng (ODL); ; 3 cr.

### 4515 Strategy and Management for a Sustainable Future

(A-F or Audit; Prereq: 45 cr completed)  
 56561 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4571W Introduction to Grant Writing for Health Care and Nonprofit Organizations

(A-F or Audit; WI)  
 59078 A94 LEC, Online & Distance Lrng (ODL); Meets With: A94 HSM 4571; Keri Bahar; 3 cr.

### 4701 Introduction to Marketing

(A-F or Audit; Prereq: [Macroeconomics or microeconomics], 45 cr)  
 52643 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### 4993 Directed Study

(Student Option; Prereq: instr consent, dept consent)  
 50994 004 LEC, In Person Term Based; ; 1-3 cr.  
 50995 005 LEC, In Person Term Based; ; 1-3 cr.  
 50991 001 LEC, In Person Term Based; Lynn Cross; 1-3 cr.  
 50992 002 LEC, In Person Term Based; Lynn Cross; 1-3 cr.  
 50993 003 LEC, In Person Term Based; Lynn Cross; 1-3 cr.

## Applied Economics (APEC)

### 1101 Principles of Microeconomics

(Student Option; GP, SOCS)  
 68765 700 LEC, In Person Term Based; Craig Koch; 4 cr.  
 49488 002 DIS, 9:35-10:25 F, Ruttan Hall 143, In Person Term Based; Donald Liu; 4 cr.  
 49489 003 DIS, 10:40-11:30 F, Ruttan Hall 143, In Person Term Based; Donald Liu; 4 cr.  
 49490 004 DIS, 11:45-12:35 F, Ruttan Hall 143, In Person Term Based; Donald Liu; 4 cr.  
 58709 005 DIS, 12:50-13:40 F, Ruttan Hall 143, In Person Term Based; Donald Liu; 4 cr.  
 68766 701 LEC, In Person Term Based; Emily Anderson; 4 cr.

68767 702 LEC, In Person Term Based; Emily Anderson; 4 cr.  
 68769 704 LEC, In Person Term Based; Joel Coleman; 4 cr.  
 68768 703 LEC, In Person Term Based; Scott Kromminga; 4 cr.  
 47072 001 LEC, 13:30-14:45 TTh, Ruttan Hall B35, In Person Term Based; Donald Liu; 4 cr.

### 1102 Principles of Macroeconomics

(Student Option; Prereq: 1101 or Econ 1101)  
 69103 703 LEC, In Person Term Based; Amy Childers; 3 cr.  
 68770 701 LEC, In Person Term Based; Gail Colbert; 3 cr.  
 61337 700 LEC, In Person Term Based; Gail Colbert; 3 cr.  
 47074 001 LEC, 10:40-11:30 MWF, Ruttan Hall B35, In Person Term Based; Gary Cooper; 3 cr.  
 69123 704 LEC, In Person Term Based; Matthew Cleary; 3 cr.  
 68771 702 LEC, In Person Term Based; Michael Harris; 3 cr.

### 1102H Honors: Principles of

**Macroeconomics**  
 (A-F only; Prereq: [1101 or 1101H or ECON 1101 or ECON 1101H, honors])  
 54779 001 LEC, 10:15-11:30 TTh, Ruttan Hall 143, In Person Term Based; 4 cr.  
 54780 002 DIS, 10:40-11:30 W, Peters Hall 145, In Person Term Based; 4 cr.  
 54781 003 DIS, In Person Term Based; Diane McAfee; 4 cr.

### 3001 Applied Microeconomics:

**Consumers, Producers, and Markets**  
 (Student Option; Prereq: [[1101 or ECON 1101 or 1101H or ECON 1101H], [MATH 1142 or MATH 1271]] or instr consent; intended for undergrads in [Ag/Food Bus Mgmt, Appl Econ])  
 47075 001 LEC, 10:15-11:30 TTh, Ruttan Hall B45, In Person Term Based; 4 cr.  
 47076 002 DIS, 10:40-11:30 F, Ruttan Hall B26, In Person Term Based; 4 cr.  
 49608 003 DIS, 11:45-12:35 F, Ruttan Hall B26, In Person Term Based; 4 cr.

### 3002 Applied Microeconomics: Managerial Economics

(Student Option; Prereq: [[3001 or ECON 3101], [OMS 2550 or STAT 3011] or instr consent])  
 47077 001 LEC, 10:15-11:30 TTh, Ruttan Hall B25, In Person Term Based; 4 cr.  
 47078 002 LAB, 10:40-12:35 W, Coffey Hall 50, In Person Term Based; 4 cr.  
 47079 003 LAB, 12:50-14:45 W, Coffey Hall 50, In Person Term Based; 4 cr.

### 3003 Introduction to Applied Econometrics

(A-F only; Prereq: APEC 1101 or equiv., STAT 3011 or equiv.)  
 68287 001 LEC, 10:15-11:30 TTh, Magrath Library 6, In Person Term Based; Joe Ritter; 4 cr.  
 68288 002 LAB, 9:35-10:25 F, Coffey Hall 50, In Person Term Based; Joe Ritter; 4 cr.

### 3006 Applied Macroeconomics:

**Government and the Economy**  
 (Student Option; Prereq: [[1102 or Econ 1102], [3001 or Econ 3101]] or instr consent)  
 47080 001 LEC, 13:30-14:45 TTh, Ruttan Hall B25, In Person Term Based; 3 cr.

### 3007 Applied Macroeconomics: Policy, Trade, and Development

(Student Option; Prereq: [1101 or ECON 1101], [1101H or ECON 1101H], [1102 or ECON 1102], [1102H or ECON 1102H]; 3001, 3006 recommendedGP)  
 47081 001 LEC, 9:35-10:25 MWF, Haecker Hall 205, In Person Term Based; Carlisle Runge; 3 cr.

### 3061 Economic Development in Contemporary Africa

(Student Option; Prereq: 1101 or ECON 1101GP,SOCS)  
 59943 001 LEC, 16:00-17:15 TTh, Blegen Hall 255, In Person Term Based; Meets With: 001 AFRO 3433; Tade Okediji; 3 cr.

### 3451 Food and Agricultural Sales

(Student Option; Prereq: 1101 or Econ 1101)  
 47255 001 LEC, 10:40-11:30 MWF, Biological Sciences Ctr 64, In Person Term Based; Ward Nefstead; 3 cr.  
 49851 002 LEC, 13:55-14:45 MWF, Ruttan Hall B25, In Person Term Based; Ward Nefstead; 3 cr.

### 3611W Environmental and Natural Resource Economics

(Student Option; Prereq: 1101 or ECON 1101 or 1101H or ECON 1101HENV,WI)  
 47112 001 LEC, 15:00-16:15 TTh, Ruttan Hall 143, In Person Term Based; 3 cr.

### 3821 Retail Center Management

(Student Option; Prereq: [1101 or Econ 1101], [1251 or Acct 2050])  
 47109 001 LEC, 13:30-14:45 TTh, Ruttan Hall B22, In Person Term Based; Ward Nefstead; 3 cr.

### 3840 Cooperative Organization

(Student Option; )  
 61043 001 LEC, 17:30-20:30 W, Ruttan Hall 143, In Person Term Based; Meets With: 001 APEC 5811; Michael Boland; 3 cr.

### 3991 Independent Study in Applied Economics

(Student Option; Prereq: instr consent)  
 47110 001 IND, In Person Term Based; 1-4 cr.  
 55856 002 IND, In Person Term Based; 1-4 cr.  
 55857 003 IND, In Person Term Based; 1-4 cr.  
 60555 004 IND, In Person Term Based; 1-4 cr.  
 60556 005 IND, In Person Term Based; 1-4 cr.

### 4481 Futures and Options Markets

(Student Option; Prereq: [[3001 or Econ 3101], [AnSc 2211 or OMS 1550 or Stat 3011], 60 cr] or instr consent)  
 48538 001 LEC, 8:45-10:00 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 APEC 5481; Marin Bozic; 3 cr.

### 4501 Financial Modeling

(A-F or Audit; Prereq: [APEC 3501 or FINA 3001], [APEC 1251 or ACCT 2050])  
 51577 001 LEC, 11:45-13:00 TTh, Coffey Hall 50, In Person Term Based; William Lazarus; 3 cr.

### 4821W Business Economics and Strategy

(Student Option; Prereq: 3002, [3501 or FINA 3001], MGMT 3001W)  
 47113 001 LEC, 15:00-16:15 MW, Ruttan Hall 143, In Person Term Based; Metin Cakir; 3 cr.

### 5032 Economic Data Analysis for Managerial and Policy Decisions

(Student Option; Prereq: 5031 or instr consent)  
 52372 001 LEC, 10:15-11:30 Th, Coffey Hall 50, 10:15-11:30 T, Ruttan Hall B36, In Person Term Based; Elizabeth Davis; 3 cr.

### 5152 Applied Macroeconomics: Income and Employment

(Student Option; Prereq: 3001 or or Math 1271 or Math 2243 or equiv or grad student or instr consent)  
 47564 001 LEC, 11:45-13:00 TTh, Ruttan Hall B22, In Person Term Based; Terry Roe; 3 cr.

### 5321 Regional Economic Analysis

(Student Option; Prereq: 3006 or ECON 3102 or instr consent)  
 55364 001 LEC, 15:00-16:15 TTh, Ruttan Hall B22, In Person Term Based; Elton Mykerez; 3 cr.

### 5481 Futures and Options Markets

(Student Option; Prereq: grad student)  
 50803 001 LEC, 8:45-10:00 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 APEC 4481; Marin Bozic; 3 cr.

### 5651 Economics of Natural Resource and Environmental Policy

(Student Option; Prereq: [[3001 or ECON 3101], [3611 or ECON 3611 or ESPM 3261]] or instr consent)  
 58182 001 LEC, 15:00-16:15 TTh, Magrath Library 6, In Person Term Based; 3 cr.

### 5811 Cooperative Organization

(Student Option; )  
 52347 001 LEC, 17:30-20:30 W, Ruttan Hall 143, In Person Term Based; Meets With: 001 APEC 3840; Michael Boland; 3 cr.

### 5891 Independent Study: Advanced Topics in Farm and Agribusiness Management

(Student Option; Prereq: instr consent)  
 47118 001 IND, In Person Term Based; Diane McAfee; 1-4 cr.

### 8003 Applied Microeconomic Analysis of Game Theory and Information

(A-F or Audit; Prereq: [[8002 or ECON 8002 or ECON 8102], [MATH 2243, MATH 2263] or equiv]] or instr consent)  
 57004 002 DIS, 16:30-17:45 Th, Ruttan Hall 143, In Person Term Based; Diane McAfee; 2 cr.  
 57001 001 LEC, 15:00-16:15 TTh, Ruttan Hall B30, In Person Term Based; Diane McAfee; 2 cr.

### 8004 Applied Microeconomic Analysis of Social Choice and Welfare

(A-F or Audit; Prereq: [[8003 or ECON 8003 or ECON 8103], [MATH 2243, MATH 2263] or equiv]] or instr consent)  
 57005 002 DIS, 16:30-17:45 Th, Ruttan Hall 143, In Person Term Based; Jay Coggins; 2 cr.  
 57002 001 LEC, 15:00-16:15 TTh, Ruttan Hall B30, In Person Term Based; Jay Coggins; 2 cr.

### 8203 Applied Welfare Economics and Public Policy

(Student Option; Prereq: calculus, intermediate econ theory)  
 47363 001 LEC, 12:50-14:05 MW, Ruttan Hall B36, In Person Term Based; Carlisle Runge; 3 cr.

### 8206 Dynamic Optimization: Applications in Economics and Management

(Student Option; Prereq: 5151 or equiv or instr consent)  
 53817 001 LEC, 10:15-11:30 TTh, Ruttan Hall B26, In Person Term Based; Frances Homans; 3 cr.

### 8212 Econometric Analysis II

(Student Option; Prereq: 8211 or equiv or instr consent)  
 49728 001 LEC, 15:00-15:50 F, Ruttan Hall 143, 10:40-12:35 MW, Ruttan Hall 143, In Person Term Based; Paul Glewwe; 4 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49089 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49189 001 IND, In Person Term Based; 1 cr.

### 8501 Labor Economics I

(A-F or Audit; Prereq: 8003 or equiv or concurrent registration is required (or allowed) in 8003, 8211, 5032 or equiv)  
 67616 001 LEC, 15:00-16:40 TTh, Ruttan Hall B36, In Person Term Based; Joe Ritter; 2 cr.

### 8502 Labor Economics II

(A-F or Audit; Prereq: [8211, [8001, 8002] or [ECON 8001, ECON 8002] or [ECON 8101, ECON 8102]] or instr consent)  
 67617 001 LEC, 15:00-16:40 TTh, Ruttan Hall B36, In Person Term Based; Elizabeth Davis; 2 cr.

### 8602 Economics of the Environment

(Student Option; Prereq: 8004 or ECON 8004 or ECON 8104 or equiv or instr consent)  
 67631 001 LEC, 11:45-13:00 TTh, Magrath Library 6, In Person Term Based; Jay Coggins; 3 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49272 001 IND, In Person Term Based; 1-6 cr.

### 8701 International Economic Development, Growth, and Trade

(Student Option; Prereq: Econ 8002 or Econ 8102 or instr consent)  
 69096 001 LEC, 16:05-16:55 MWF, , In Person Term Based; Terry Roe; 3 cr.

### 8702 Economic and Trade Policy: Sectoral and Institutional Issues

(Student Option; Prereq: ECON 8002 or ECON 8102 or instr consent)  
 67632 001 LEC, 13:30-14:45 TTh, Magrath Library 6, In Person Term Based; Pamela Smith; 3 cr.



**3282 Undergraduate Architecture Studio II**

(A-F only; Prereq: [3281 or 4281], BS Arch major)

51640 519 LAB, Study Abroad; 6 cr.  
47933 003 LAB, In Person Term Based; 6 cr.  
55896 516 LAB, Study Abroad; Lance Lavine; 6 cr.  
47931 001 LAB, 13:00-18:00 WF, Room TBA, In Person Term Based; 6 cr.  
47932 002 LAB, 13:00-18:00 WF, Room TBA, In Person Term Based; 6 cr.  
49921 502 LAB, 13:00-18:00 WF, Room TBA, Study Abroad; Lance Lavine; 6 cr.

**3301 Drawing for Design in Architecture**

(A-F or Audit; Prereq: [1301 or LA 1301 or 2301], [Arch or BED major])

51023 006 LAB, 17:30-20:00 T, Room TBA, In Person Term Based; 3 cr.  
47967 001 LAB, 17:30-18:45 TTh, Room TBA, In Person Term Based; 3 cr.  
49928 005 LAB, 16:00-17:15 TTh, Room TBA, In Person Term Based; David Dimond; 3 cr.  
47968 004 LAB, 16:00-17:15 TTh, Room TBA, In Person Term Based; Steven Buetow; 3 cr.

**3351 AutoCAD I**

(Student Option; Prereq: Arch major or BED major or instr consent)

53198 001 LEC, In Person Term Based; 3 cr.  
53199 002 LEC, 18:00-20:30 M, Rapson Hall 33, In Person Term Based; Kristine Anderson; 3 cr.

**3412 Architectural History Since 1750**

(A-F or Audit; Prereq: Soph or aboveGP,HIS)

47946 006 DIS, 11:15-12:05 W, Akerman Hall 227, In Person Term Based; Katherine Solomonson; 3 cr.  
47947 007 DIS, 11:15-12:05 W, Room TBA, In Person Term Based; Katherine Solomonson; 3 cr.  
47944 004 DIS, 11:15-12:05 M, Room TBA, In Person Term Based; Katherine Solomonson; 3 cr.  
47945 005 DIS, 11:15-12:05 M, Akerman Hall 227, In Person Term Based; Katherine Solomonson; 3 cr.  
47951 014 DIS, 16:40-17:30 Th, Akerman Hall 227, In Person Term Based; Katherine Solomonson; 3 cr.  
47950 013 DIS, 18:30-19:20 W, Akerman Hall 227, In Person Term Based; Katherine Solomonson; 3 cr.  
47949 009 DIS, 11:15-12:05 F, Rapson Hall 58, In Person Term Based; Katherine Solomonson; 3 cr.  
47948 008 DIS, 11:15-12:05 W, Rapson Hall 58, In Person Term Based; Katherine Solomonson; 3 cr.  
54380 010 DIS, 18:30-19:20 M, Rapson Hall 58, In Person Term Based; Katherine Solomonson; 3 cr.  
47943 003 DIS, 11:15-12:05 M, Mechanical Engineering 102, In Person Term Based; Katherine Solomonson; 3 cr.  
47942 002 DIS, 11:15-12:05 M, Mechanical Engineering 221, In Person Term Based; Katherine Solomonson; 3 cr.  
54381 011 DIS, 16:40-17:30 T, Mechanical Engineering 221, In Person Term Based; Katherine Solomonson; 3 cr.  
47941 001 LEC, 9:45-11:00 TTh, Bell Museum Auditorium, In Person Term Based; Meets With: 001 ARCH 3412H; Katherine Solomonson; 3 cr.

**3412H Honors: Architectural History Since 1750**

(A-F or Audit; Prereq: Soph, honorsGP,HIS)

49609 002 DIS, 11:15-12:05 Th, Rapson Hall 13, In Person Term Based; Katherine Solomonson; 3 cr.  
50231 001 LEC, 9:45-11:00 TTh, Bell Museum Auditorium, In Person Term Based; Meets With: 001 ARCH 3412; Katherine Solomonson; 3 cr.

**3451W Theory in Design Use**

(A-F only; Prereq: [1701, 3311, 3312, [one BS design studio or two BDA workshops]W])

56045 516 LEC, Study Abroad; Lance Lavine; 3 cr.

**3611 Design in the Digital Age**

(A-F or Audit; )

48980 001 LEC, 9:05- 9:55 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 5611; Lee Anderson; 3 cr.

**3993 Directed Study**

(A-F only; Prereq: instr consent)

53603 008 IND, In Person Term Based; 1-3 cr.  
53604 009 IND, In Person Term Based; 1-3 cr.  
53605 010 IND, In Person Term Based; 1-3 cr.  
53606 011 IND, In Person Term Based; 1-3 cr.  
53607 012 IND, In Person Term Based; 1-3 cr.  
53608 013 IND, In Person Term Based; 1-3 cr.  
53609 014 IND, In Person Term Based; 1-3 cr.  
53610 015 IND, In Person Term Based; 1-3 cr.  
53611 016 IND, In Person Term Based; 1-3 cr.  
53612 017 IND, In Person Term Based; 1-3 cr.  
53785 018 IND, In Person Term Based; 1-3 cr.

52811 519 IND, Study Abroad; 1-3 cr.  
53601 005 IND, In Person Term Based; 1-3 cr.  
53051 001 IND, In Person Term Based; ; 1-3 cr.  
53589 003 IND, In Person Term Based; Jim Lutz; 1-3 cr.  
53600 004 IND, In Person Term Based; Lee Anderson; 1-3 cr.  
53602 007 IND, In Person Term Based; Leslie Van Duzer; 1-3 cr.  
53052 002 IND, In Person Term Based; Ozayr Saloojee; 1-3 cr.

**4150 Topics in Architecture**

(A-F or Audit; Prereq: Arch major or instr consent)

53787 007 LEC, 9:45-11:00 TTh, Room TBA, In Person Term Based; 1-4 cr.  
53303 501 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
53304 502 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
55898 516 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
55899 517 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
53238 001 LEC, 18:00-20:45 M, Mechanical Engineering 212, In Person Term Based; Meets With: 002 ARCH 5750001 PA 4290001 PA 5290; RT Rybak; 1-4 cr.  
53249 005 LEC, 9:45-11:00 MW, Akerman Hall 227, In Person Term Based; Meets With: 003 ARCH 5450; Katherine Solomonson; 1-4 cr.  
53777 004 LEC, 13:00-14:15 TTh, Room TBA, In Person Term Based; Mary Guzowski; 1-4 cr.  
53247 003 LEC, 18:00-20:30 T, Rapson Hall 58, In Person Term Based; Meets With: 001 ARCH 5750; Michael Haggans; 1-4 cr.

**4283 Undergraduate Architecture Studio III**

(A-F only; Prereq: [3282 or 4282], B.S. Arch major)

51641 519 LAB, Study Abroad; ; 6 cr.  
49922 503 LAB, Study Abroad; ; 6 cr.

**4284 Undergraduate Architecture Studio IV**

(A-F only; Prereq: 4283, BS Arch major)

50141 002 LAB, In Person Term Based; 6 cr.  
50142 003 LAB, In Person Term Based; 6 cr.  
55897 516 LAB, Study Abroad; Lance Lavine; 6 cr.  
50279 502 LAB, Study Abroad; Lance Lavine; 6 cr.  
51642 519 LAB, Study Abroad; ; 6 cr.  
49863 001 LAB, 13:00-18:00 MW, Room TBA, In Person Term Based; Cynthia Jara; 6 cr.

**4361 3-D Computer Architectural Modeling and Design**

(A-F or Audit; Prereq: 3351, Arch major)

53214 001 LEC, 18:00-20:30 Th, Rapson Hall 15, In Person Term Based; Meets With: 001 ARCH 5361; James Dozier; 3 cr.  
53215 002 LEC, 14:30-17:00 T, Mechanical Engineering 102, In Person Term Based; Meets With: 002 ARCH 5361; James Dozier; 3 cr.

**4382 Computer-Aided Architectural Design**

(A-F or Audit; )

57951 001 LEC, 13:00-14:15 TTh, Akerman Hall 227, In Person Term Based; Meets With: 001 ARCH 5382; Lee Anderson; 3 cr.

**4421W Architecture and Interpretation: The Cave and the Light**

(A-F or Audit; Prereq: [3411, 3412] or instr consent[W])

53783 001 LEC, In Person Term Based; Meets With: 001 ARCH 5421; 3 cr.

**4423 Gothic Architecture**

(A-F or Audit; Prereq: 3411 or instr consent)

59490 001 LEC, 11:15-12:05 MWF, Rapson Hall 54, In Person Term Based; Meets With: 001 ARCH 5423; Leon Satkowski; 3 cr.

**4434 Contemporary Architecture**

(A-F or Audit; Prereq: 3412 or instr consent)

56429 001 LEC, 11:15-12:05 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 5434; Nancy Miller; 3 cr.

**4441 Minnesota: Architecture and Landscapes**

(A-F only; Prereq: [3411, 3412] recommended)

57946 001 LEC, 11:15-12:05 MWF, Rapson Hall 43, In Person Term Based; Meets With: 001 ARCH 5441; Leon Satkowski; 3 cr.

**4521 Environmental Technology I**

(A-F or Audit; Prereq: BS Arch major)

53248 001 LEC, 13:00-14:15 TTh, Rapson Hall 43, In Person Term Based; 3 cr.

**4552 Integrated Design Processes**

(A-F or Audit; )

53115 001 LEC, In Person Term Based; 3 cr.

**4561 Architecture and Ecology**

(A-F or Audit; ENV)

53217 001 LEC, 11:15-12:30 TTh, Rapson Hall 100, In Person Term Based; Jim Lutz; 3 cr.  
53221 005 LAB, 9:05- 9:55 W, Room TBA, In Person Term Based; Jim Lutz; 3 cr.  
53222 006 LAB, 9:05- 9:55 F, Rapson Hall 13, In Person Term Based; Jim Lutz; 3 cr.  
53840 011 LAB, 11:15-12:05 F, Rapson Hall 13, In Person Term Based; Jim Lutz; 3 cr.  
53225 009 LAB, 11:15-12:05 W, Rapson Hall 13, In Person Term Based; Jim Lutz; 3 cr.  
53224 008 LAB, 11:15-12:05 M, Rapson Hall 13, In Person Term Based; Jim Lutz; 3 cr.  
53220 004 LAB, 9:05- 9:55 W, Rapson Hall 15, In Person Term Based; Jim Lutz; 3 cr.  
53218 002 LAB, 9:05- 9:55 M, Rapson Hall 15, In Person Term Based; Jim Lutz; 3 cr.  
53223 007 LAB, 11:15-12:05 W, Rapson Hall 15, In Person Term Based; Jim Lutz; 3 cr.  
53219 003 LAB, 11:15-12:05 M, Rapson Hall 15, In Person Term Based; Jim Lutz; 3 cr.

**4672 Historic Building Conservation**

(A-F or Audit; Prereq: 4671 or concurrent enrollment in 4671 or instr consent)

53216 001 LEC, 18:00-18:50 Th, Mechanical Engineering 221, 18:00-20:00 T, Mechanical Engineering 221, In Person Term Based; Meets With: 001 ARCH 5672; Todd Grover; 3 cr.

**5110 Architecture as Catalyst**

(S-N only; Prereq: M.Arch)

55112 001 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.  
55113 002 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.  
55115 004 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.  
55116 005 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.  
55132 006 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.  
55895 516 LEC, Study Abroad; ; 1 cr.  
55114 003 LEC, 7:00-18:00 MTWThF, Room TBA, In Person Term Based; Adam Marcus; 1 cr.

**5241 Principles of Design Programming**

(A-F or Audit; Prereq: [8251, [M.Arch or MS Arch] major] or instr consent)

55118 001 LAB, 9:45-12:30 TTh, Room TBA, In Person Term Based; Julia Robinson; 3-4 cr.

**5250 Advanced Topics in Design**

(A-F only; )

55933 001 LEC, 13:30-15:30 MWF, Room TBA, In Person Term Based; ; 1-6 cr.  
55945 516 LEC, Study Abroad; Arthur Chen; 1-6 cr.

**5301 Conceptual Drawing**

(A-F only; Prereq: MArch major or instr consent)

56425 001 LAB, 9:45-12:30 WF, Akerman Hall 317, In Person Term Based; Andrzej Piotrowski; 3 cr.

**5350 Topics in Architectural Representation**

(A-F or Audit; )

50282 002 LEC, In Person Term Based; ; 1-4 cr.  
54486 525 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
51630 001 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Julia Robinson; 1-4 cr.  
51631 516 LEC, Study Abroad; Arthur Chen; 1-4 cr.

**5361 3-D Computer Architectural Modeling and Design**

(A-F or Audit; Prereq: M Arch major)

51102 002 LEC, 14:30-17:00 T, Mechanical Engineering 102, In Person Term Based; Meets With: 002 ARCH 4361; James Dozier; 3 cr.  
48847 001 LEC, 18:00-20:30 Th, Rapson Hall 15, In Person Term Based; Meets With: 001 ARCH 4361; James Dozier; 3 cr.

**5372 Computer Methods II**

(S-N or Audit; Prereq: 5371, concurrent registration is required (or allowed) in 8252 and M Arch major or instr consent)

48250 001 LEC, In Person Term Based; Ian McLellan; 1 cr.

**5382 Computer Aided Architectural Design**

(A-F or Audit; )

48060 001 LEC, 13:00-14:15 TTh, Akerman Hall 227, In Person Term Based; Meets With: 001 ARCH 4382; Lee Anderson; 3 cr.

### 5410 Topics in Architectural History

(A-F or Audit; )

53264 001 LEC, In Person Term Based; 3 cr.  
51633 518 LEC, Study Abroad; 3 cr.  
50280 512 LEC, Study Abroad; Katherine Moss; 3 cr.  
54487 525 LEC, Study Abroad; Lance Lavine; 3 cr.  
54402 003 LEC, 17:30-20:15 Th, Room TBA, In Person Term Based; Robert Ferguson; 3 cr.  
53779 002 LEC, 18:15-21:00 W, Room TBA, In Person Term Based; Rachel Iannacone; 3 cr.  
51632 516 LEC, Study Abroad; Arthur Chen; 3 cr.

### 5421 Architecture and Interpretation: The Cave and the Light

(A-F only; Prereq: [3411, 3412] or instr consent)

53784 001 LEC, In Person Term Based; Meets With: 001 ARCH 4421W; 3 cr.

### 5423 Gothic Architecture

(A-F or Audit; Prereq: MS Arch or M Arch major or instr consent)

59470 001 LEC, 11:15-12:05 MWF, Rapson Hall 54, In Person Term Based; Meets With: 001 ARCH 4423; Leon Satkowski; 3 cr.

### 5424 Renaissance Architecture

(A-F or Audit; Prereq: MS Arch or M Arch major or instr consent)

59464 001 LEC, In Person Term Based; 3 cr.

### 5434 Contemporary Architecture

(A-F or Audit; Prereq: MS Arch or M Arch major or instr consent)

56430 001 LEC, 11:15-12:05 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 4434; Nancy Miller; 3 cr.

### 5441 Minnesota: Architecture and Landscapes

(A-F only; Prereq: [3411, 3412] recommended)

57947 001 LEC, 11:15-12:05 MWF, Rapson Hall 43, In Person Term Based; Meets With: 001 ARCH 4441; Leon Satkowski; 3 cr.

### 5450 Topics in Architectural Theory

(A-F or Audit; )

49920 516 LEC, Study Abroad; 1-3 cr.  
50322 501 LEC, Study Abroad; 1-3 cr.  
52690 002 LEC, In Person Term Based; 1-3 cr.  
52689 001 LEC, 11:15-14:00 TTh, Room TBA, In Person Term Based; 1-3 cr.  
52727 003 LEC, 9:45-11:00 MW, Akerman Hall 227, In Person Term Based; Meets With: 005 ARCH 4150; Katherine Solomonson; 1-3 cr.

### 5451 Architecture: Defining the Discipline

(A-F only; Prereq: M Arch major)

55718 001 LEC, In Person Term Based; 4 cr.

### 5452 Architecture: Design, Form, Order, and Meaning

(A-F or Audit; Prereq: M Arch major or instr consent)

55109 001 LEC, 13:25-17:30 MWF, Rapson Hall 235, In Person Term Based; Gunter Dittmar; 4 cr.

### 5516 Technology Two: Luminous and Thermal Design

(A-F only; Prereq: M Arch)

55023 001 LEC, 10:10-12:05 MWF, Rapson Hall 235, 13:25-14:15 MWF, Rapson Hall 235, 16:40-17:30 MWF, Rapson Hall 235, 15:35-16:25 MWF, Rapson Hall 235, 14:30-15:20 MWF, Rapson Hall 235, In Person Term Based; Loren Abraham; 6 cr.

### 5521 Material Investigation: Concrete

(A-F only; Prereq: MArch or MS)

55719 001 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; Sharon Roe; 4 cr.

### 5527 Material Investigations: Stone and Water

(A-F only; Prereq: M.Arch or M.S.)

55111 001 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Sharon Roe; 4 cr.

### 5539 Daylighting and Architecture Design

(A-F only; Prereq: M Arch major)

55720 001 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Mary Guzowski; 4 cr.

### 5550 Topics in Technology

(A-F only; )

51634 516 LEC, Study Abroad; 1-4 cr.  
51635 518 LEC, Study Abroad; 1-4 cr.  
55082 004 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; 1-4 cr.  
57420 504 LEC, Study Abroad; Blaine Brownell; 1-4 cr.  
54488 525 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
53780 002 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Lucas Alm; 1-4 cr.  
53849 003 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; William Weber; 1-4 cr.  
50281 512 LEC, Study Abroad; 1-4 cr.

### 5611 Design in the Digital Age

(A-F or Audit; Prereq: Grad student or upper level undergrad student)

48993 001 LEC, 9:05-9:55 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 3611; Lee Anderson; 3 cr.

### 5650 Topics in Architectural Practice

(Student Option; Prereq: 5621, Arch major or 5621, M Arch major or instr consent)

55730 002 LEC, 9:45-12:30 TTh, Room TBA, In Person Term Based; John Comazzi; 1-4 cr.  
56792 004 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; John Comazzi; 1-4 cr.  
55035 003 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Julia Robinson; 1-4 cr.  
53851 001 LEC, 11:15-14:00 TTh, Room TBA, In Person Term Based; William Conway; 1-4 cr.

### 5651 Building Stories

(A-F only; )

57981 001 LEC, 14:30-17:15 TTh, Cooke Hall 215, In Person Term Based; Renee Cheng; 3 cr.  
57982 002 LEC, 14:30-17:15 TTh, Cooke Hall 215, In Person Term Based; Renee Cheng; 3 cr.

### 5670 Topics in Historic Preservation

(Student Option; )

55880 504 LEC, Study Abroad; Arthur Chen; 1-3 cr.  
55190 001 LEC, 11:15-14:00 TTh, Room TBA, In Person Term Based; Jim Lutz; 1-3 cr.

### 5672 Historic Building Conservation

(Student Option; Prereq: 3412, 5671 or instr consent)

48732 001 LEC, 18:00-18:50 Th, Mechanical Engineering 221, 18:00-20:00 T, Mechanical Engineering 221, In Person Term Based; Meets With: 001 ARCH 4672; Todd Grover; 3 cr.

### 5673 Historic Property Research and Documentation

(Student Option; Prereq: [3412, 3641, 4671, 5671, 4672 or 5672] or instr consent)

57337 001 LEC, 14:30-17:30 Th, Rapson Hall 43, In Person Term Based; Todd Grover; 3 cr.

### 5676 Economics of Heritage Preservation

(A-F only; )

57980 001 LEC, 9:45-11:00 TTh, Room TBA, In Person Term Based; Gregory Donofrio; 3 cr.

### 5711 Theory and Principles of Urban Design

(A-F or Audit; Prereq: M Arch major or LA grad major or grad student or instr consent)

56427 001 LEC, 9:45-12:30 TTh, Room TBA, In Person Term Based; IGNACIO San Martin; 3 cr.

### 5721 Case Studies in Urban Design

(A-F or Audit; Prereq: Grad student or instr consent)

55721 001 LEC, 9:45-12:30 TTh, Room TBA, In Person Term Based; Cynthia Jara; 3 cr.

### 5750 Topics in Urban Design

(A-F or Audit; )

56742 004 LEC, In Person Term Based; 1-4 cr.  
51636 516 LEC, Study Abroad; 1-4 cr.  
51637 518 LEC, Study Abroad; 1-4 cr.  
54489 525 LEC, Study Abroad; Lance Lavine; 1-4 cr.  
53778 001 LEC, 18:00-20:30 T, Rapson Hall 58, In Person Term Based; Meets With: 003 ARCH 4150; Michael Haggans; 1-4 cr.  
55038 002 LEC, 18:00-20:45 M, Mechanical Engineering 212, In Person Term Based; Meets With: 001 ARCH 4150001 PA 4290001 PA 5290; RT Rybak; 1-4 cr.  
56663 003 LEC, 9:45-12:30 TTh, Room TBA, In Person Term Based; Julia Robinson; 1-4 cr.

50323 501 LEC, Study Abroad; 1-4 cr.

### 5993 Directed Study

(A-F or Audit; Prereq: instr consent)

51714 519 IND, Study Abroad; 1-4 cr.  
48985 001 IND, In Person Term Based; 1-4 cr.  
53614 016 IND, In Person Term Based; Andrzej Piotrowski; 1-4 cr.  
56027 505 IND, Study Abroad; Arthur Chen; 1-4 cr.  
51643 516 IND, Study Abroad; Arthur Chen; 1-4 cr.  
53619 023 IND, In Person Term Based; Bruno Franck; 1-4 cr.  
52885 012 IND, In Person Term Based; Gunter Dittmar; 1-4 cr.  
56025 024 IND, In Person Term Based; J Weeks; 1-4 cr.  
48988 004 IND, In Person Term Based; J Weeks; 1-4 cr.  
48987 003 IND, In Person Term Based; James Dozier; 1-4 cr.  
53384 013 IND, In Person Term Based; John Carmody; 1-4 cr.  
48989 005 IND, In Person Term Based; Katherine Solomonson; 1-4 cr.  
53410 014 IND, In Person Term Based; Lee Anderson; 1-4 cr.  
53617 018 IND, In Person Term Based; Leon Satkowski; 1-4 cr.  
49923 502 IND, Study Abroad; Leslie Van Duzer; 1-4 cr.  
48990 006 IND, In Person Term Based; Leslie Van Duzer; 1-4 cr.  
53618 019 IND, In Person Term Based; Marc Swackhamer; 1-4 cr.  
53613 015 IND, In Person Term Based; Mary Guzowski; 1-4 cr.  
53616 020 IND, In Person Term Based; Ozayr Saloojee; 1-4 cr.  
53615 017 IND, In Person Term Based; Sharon Roe; 1-4 cr.  
52883 010 IND, In Person Term Based; Thomas Fisher; 1-4 cr.  
52884 011 IND, In Person Term Based; William Conway; 1-4 cr.  
48986 002 IND, In Person Term Based; J Weeks; 1-4 cr.

### 8254 Technical Applications in Design

(A-F or Audit; Prereq: [8253, MArch major] or dept consent)

50277 502 LEC, Study Abroad; 4 cr.  
53400 003 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; 4 cr.  
55101 005 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; 4 cr.  
50278 512 LEC, Study Abroad; Katherine Moss; 4 cr.  
54490 525 LEC, Study Abroad; Lance Lavine; 4 cr.  
53399 002 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; Sharon Roe; 4 cr.  
55021 004 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; 4 cr.  
51638 516 LEC, Study Abroad; Arthur Chen; 4 cr.  
51639 518 LEC, Study Abroad; Garth Rockcastle; 4 cr.  
48614 001 LEC, 13:25-17:30 MWF, Rapson Hall 245, In Person Term Based; William Conway; 4 cr.

### 8255 Graduate Architectural Design V

(A-F or Audit; Prereq: [8254, grad Arch major] or instr consent)

49924 502 LAB, 13:00-18:00 MW, Room TBA, Study Abroad; 6 cr.

### 8295 Directed Graduate Architectural Design

(A-F or Audit; Prereq: 8251, grad Arch major or instr consent)

49925 502 LEC, Study Abroad; 6 cr.

### 8299 Master's Final Project

(S-N only; Prereq: Plan C, MArch)

55410 001 LEC, 13:25-17:30 MWF, Room TBA, In Person Term Based; Ozayr Saloojee; 10 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49091 001 IND, In Person Term Based; 1 cr.

### 8563 Energy and Indoor Environmental Quality Issues in Sustainable Design

(A-F or Audit; Prereq: [5513, [grad MS or MArch]] or instr consent)

53237 001 LEC, 14:30-17:15 Th, Rapson Hall 54, In Person Term Based; Jay Johnson; 3 cr.

### 8565 Materials Performance in Sustainable Building

(A-F only; Prereq: [5512, grad MS or March]] or instr consent)

53236 001 LEC, 14:30-17:30 T, Rapson Hall 43, In Person Term Based; Blaine Brownell; 3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49380 001 IND, 13:25-17:30 MTWTF, Room TBA, In Person Term Based; 1-18 cr.

**Art (ARTS)****1001 Introduction to Contemporary Art and Theory**

(Student Option; AH,DSJ)  
47044 002 DIS, 10:05-12:30 F, Regis Center for Art E110, In Person Term Based; Jill Gebhardt; 3 cr.  
57852 003 DIS, 10:05-12:30 F, Regis Center for Art E110, In Person Term Based; Jill Gebhardt; 3 cr.  
55792 005 DIS, In Person Term Based; Jill Gebhardt; 3 cr.  
55791 004 LEC, In Person Term Based; Jill Gebhardt; 3 cr.  
47043 001 LEC, 9:05-9:55 F, Regis Center for Art E110, In Person Term Based; Jill Gebhardt; 3 cr.  
47043 001 LEC, 9:05-9:55 F, Regis Center for Art E110, In Person Term Based; Jill Gebhardt; 3 cr.

**1002 Art and Life: Thinking About Ethics Through Art**

(Student Option; AH,CIV)  
60317 001 LEC, 11:15-12:30 TTh, Regis Center for Art W132, In Person Term Based; MarthaENZler; 3 cr.

**1101 Drawing**

(Student Option; AH)  
68583 009 LAB, 18:00-22:00 Th, Regis Center for Art W270, In Person Term Based; Margie McGee-Newton; 4 cr.  
46957 001 LAB, 9:05-12:05 MW, Regis Center for Art W270, In Person Term Based; MarthaENZler; 4 cr.  
46959 003 LAB, 13:25-16:25 MW, Regis Center for Art W270, In Person Term Based; MarthaENZler; 4 cr.  
68581 008 LAB, 8:00-12:00 F, Regis Center for Art W244, In Person Term Based; MarthaENZler; 4 cr.  
68584 010 LAB, 10:00-12:00 Sa, Regis Center for Art W270, In Person Term Based; MarthaENZler; 4 cr.  
46958 002 LAB, 9:05-12:05 TTh, Regis Center for Art W244, In Person Term Based; Mathew Zefeldt; 4 cr.  
46961 005 LAB, 13:25-16:25 TTh, Regis Center for Art W270, In Person Term Based; Clarence Morgan; 4 cr.  
46960 004 LAB, 18:00-22:00 M, Regis Center for Art W244, In Person Term Based; Mark Schoening; 4 cr.  
46963 007 LAB, 18:00-22:00 W, Regis Center for Art W244, In Person Term Based; MarthaENZler; 4 cr.  
46962 006 LAB, 18:00-22:00 T, Regis Center for Art W260, In Person Term Based; MarthaENZler; 4 cr.

**1102 Painting**

(Student Option; Prereq: 1101 or 2101)  
68587 002 LAB, 9:05-12:05 MW, Regis Center for Art W268, In Person Term Based; Margie McGee-Newton; 4 cr.  
47052 001 LAB, 13:25-16:25 TTh, Regis Center for Art W268, In Person Term Based; MarthaENZler; 4 cr.

**1301 Sculpture**

(Student Option; AH)  
51143 003 LAB, 9:05-12:05 TTh, Regis Center for Art E117, In Person Term Based; MarthaENZler; 4 cr.  
51141 001 LAB, 13:25-16:25 MW, Regis Center for Art E117, In Person Term Based; MarthaENZler; 4 cr.  
59947 004 LAB, 9:05-12:05 MW, Regis Center for Art E123, In Person Term Based; Tamsie Ringle; 4 cr.  
51142 002 LAB, 13:25-16:25 TTh, Regis Center for Art E123, In Person Term Based; MarthaENZler; 4 cr.  
68590 005 LAB, 18:00-21:00 MW, Regis Center for Art E117, In Person Term Based; MarthaENZler; 4 cr.

**1490 Workshop in Art**

(A-F or Audit; )  
61264 002 LAB, 13:25-14:55 W, Regis Center for Art E231, In Person Term Based; Jill Gebhardt; 1-4 cr.  
58926 001 LAB, 18:00-21:00 W, Regis Center for Art W240, In Person Term Based; MarthaENZler; 1-4 cr.

**1502 Printmaking: Relief, Screen, and Digital Processes**

(Student Option; AH)  
53555 001 LAB, 18:00-21:00 MW, Regis Center for Art W189, 18:00-20:00 W, Regis Center for Art W189, In Person Term Based; MarthaENZler; 4 cr.  
58923 002 LAB, 13:25-16:25 TTh, Regis Center for Art W189, In Person Term Based; MarthaENZler; 4 cr.

**1601 Experimental and Media Arts**

(Student Option; AH)  
49084 003 LAB, 9:05-12:05 TTh, Regis Center for Art W248, In Person Term Based; MarthaENZler; 4 cr.

47042 002 LAB, 18:00-21:00 MW, Regis Center for Art W248, In Person Term Based; MarthaENZler; 4 cr.

**1701 Photography: Darkroom & Digital**

(Student Option; AH)  
68604 005 LAB, 10:00-14:00 Sa, Regis Center for Art W137, In Person Term Based; 4 cr.  
68600 004 LAB, 13:25-16:25 TTh, Regis Center for Art W137, In Person Term Based; 4 cr.  
59948 003 LAB, 18:00-22:00 TTh, Regis Center for Art W137, In Person Term Based; Jill Gebhardt; 4 cr.  
46950 002 LAB, 18:00-22:00 T, Regis Center for Art W137, In Person Term Based; Jill Gebhardt; 4 cr.  
46949 001 LAB, 9:05-12:05 MW, Regis Center for Art W137, In Person Term Based; Jill Gebhardt; 4 cr.

**1801 Ceramics**

(Student Option; AH)  
68605 005 LAB, 9:05-12:05 MW, Regis Center for Art E154, In Person Term Based; 4 cr.  
51717 003 LAB, 9:05-12:05 TTh, Regis Center for Art E156, In Person Term Based; Jill Gebhardt; 4 cr.  
46983 001 LAB, 9:05-12:05 MW, Regis Center for Art E156, In Person Term Based; Jill Gebhardt; 4 cr.  
51104 004 LAB, 18:00-21:00 MW, Regis Center for Art E156, In Person Term Based; Jill Gebhardt; 4 cr.  
46982 002 LAB, 9:05-12:05 TTh, Regis Center for Art E154, In Person Term Based; Jill Gebhardt; 4 cr.

**2101 Drawing**

(A-F only; Prereq: Intended or declared art major or minorAH)  
58085 001 LAB, In Person Term Based; 4 cr.

**2701 Photography: Darkroom & Digital**

(A-F only; Prereq: Intended or declared art major or minorAH)  
58088 001 LAB, 13:25-16:25 MW, Regis Center for Art W137, In Person Term Based; Jill Gebhardt; 4 cr.

**2801 Ceramics**

(A-F only; Prereq: Intended or declared art major or minorAH)  
58089 001 LAB, 9:05-12:05 MW, Regis Center for Art E154, In Person Term Based; Jill Gebhardt; 4 cr.

**3101 Intermediate Drawing**

(Student Option; Prereq: 1001, 1101 or 2101)  
59502 002 LAB, In Person Term Based; 4 cr.  
46948 001 LAB, 13:25-16:25 MW, Regis Center for Art W260, In Person Term Based; Jill Gebhardt; 4 cr.

**3102 Intermediate Painting**

(Student Option; Prereq: 1001, 1101 or 2101, 1102 or 2102)  
46944 001 LAB, 9:05-12:05 MW, Regis Center for Art W264, In Person Term Based; Jill Gebhardt; 4 cr.

**3105 Dimensional Painting**

(Student Option; Prereq: 1001, 1101 or 2101, 1102 or 2102)  
59075 001 LAB, 13:25-16:25 MW, In Person Term Based; Meets With: 001 ARTS 5105; Jill Gebhardt; 4 cr.

**3107 Drawing Using Digital Media as an Essential Tool**

(Student Option; Prereq: 1001, 1101 or 2101)  
55725 001 LAB, 13:25-16:25 MW, In Person Term Based; Meets With: 001 ARTS 5107; Jill Gebhardt; 4 cr.  
55725 001 LAB, 13:25-16:25 MW, In Person Term Based; Meets With: 001 ARTS 5107; Jill Gebhardt; 4 cr.

**3111 Life Drawing I**

(Student Option; Prereq: 1001, 1101 or 2101)  
59503 001 LAB, 13:25-16:25 TTh, Regis Center for Art W244, In Person Term Based; Jill Gebhardt; 4 cr.

**3112 Life Drawing II**

(Student Option; Prereq: 3111 or instr consent)  
54917 001 LAB, 13:25-16:25 TTh, In Person Term Based; Jill Gebhardt; 4 cr.

**3300 Intermediate Sculpture**

(Student Option; Prereq: [1001, 1301] or [2301, 3390])  
59070 001 LAB, 9:05-12:05 TTh, In Person Term Based; Meets With: 001 ARTS 5300; Jill Gebhardt; 4 cr.

**3303 Sculpture: Metalcasting**

(Student Option; Prereq: 1001, 1301)  
59073 001 LAB, 18:00-20:00 Th, 18:00-22:00 T, In Person Term Based; Meets With: 001 ARTS 5330; Jill Gebhardt; 4 cr.

**3304 Sculpture: Carving and Construction**

(Student Option; Prereq: 1001, 1301)  
59284 001 LAB, 13:25-16:25 MW, In Person Term Based; Meets With: 001 ARTS 5340; Jill Gebhardt; 4 cr.

**3390 Sculpture Methods and Practice**

(Student Option; )  
58213 001 LAB, 9:05-12:05 TTh, In Person Term Based; Meets With: 001 ARTS 5390; Jill Gebhardt; 4 cr.

**3401W Critical Theories and Their Construction From a Studio Perspective**

(Student Option; Prereq: [1001, junior] or instr consentAH,WI,CIV)  
59504 001 LEC, 15:35-17:00 TTh, Regis Center for Art W257, In Person Term Based; Jill Gebhardt; 3 cr.

**3411H Honors Tutorial in Visual Arts**

(A-F or Audit; Prereq: Honors, instr consent)  
48266 001 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.

**3415H Honors Exhibition**

(A-F or Audit; Prereq: [Magna or summa honors candidate], instr consent, dept consent)  
48278 001 LAB, In Person Term Based; Jill Gebhardt; 2 cr.

**3416H Honors Thesis: Supporting Paper**

(A-F or Audit; Prereq: Summa level honors candidate, instr consent)  
48936 001 IND, In Person Term Based; Jill Gebhardt; 1 cr.

**3444 Major Project**

(S-N only; )  
48260 013 IND, In Person Term Based; Clarence Morgan; 1 cr.  
49752 019 IND, In Person Term Based; Diane Willow; 1 cr.  
48257 002 IND, In Person Term Based; Jan Estep; 1 cr.  
48263 017 IND, In Person Term Based; Jenny Schmid; 1 cr.  
50059 011 IND, In Person Term Based; Joyce Lyon; 1 cr.  
48259 010 IND, In Person Term Based; Lynn Lukkas; 1 cr.  
48261 014 IND, In Person Term Based; Mark Pharis; 1 cr.  
48619 021 IND, In Person Term Based; Paul Shambroom; 1 cr.  
48264 020 IND, In Person Term Based; Tetsuya Yamada; 1 cr.  
48262 016 IND, In Person Term Based; Thomas Rose; 1 cr.  
48256 001 IND, In Person Term Based; Jill Gebhardt; 1 cr.  
49612 008 IND, In Person Term Based; Jill Gebhardt; 1 cr.  
48258 009 IND, In Person Term Based; Thomas Lane; 1 cr.  
48265 022 IND, 12:20-13:10 W, Regis Center for Art W240, In Person Term Based; Jill Gebhardt; 1 cr.

**3496 Internship in the Arts**

(S-N or Audit; Prereq: BFA Art major, instr consent)  
54930 018 FWK, In Person Term Based; Andrea Stanislaw; 1-3 cr.  
54926 013 FWK, In Person Term Based; Clarence Morgan; 1-3 cr.  
54931 019 FWK, In Person Term Based; Diane Willow; 1-3 cr.  
54918 002 FWK, In Person Term Based; Jan Estep; 1-3 cr.  
54929 017 FWK, In Person Term Based; Jenny Schmid; 1-3 cr.  
54920 007 FWK, In Person Term Based; Jerald Krepps; 1-3 cr.  
54919 003 FWK, In Person Term Based; Jill Gebhardt; 1-3 cr.  
49926 001 FWK, In Person Term Based; Jill Gebhardt; 1-3 cr.  
54924 011 FWK, In Person Term Based; Joyce Lyon; 1-3 cr.  
54923 010 FWK, In Person Term Based; Lynn Lukkas; 1-3 cr.  
54927 014 FWK, In Person Term Based; Mark Pharis; 1-3 cr.  
54932 021 FWK, In Person Term Based; Paul Shambroom; 1-3 cr.  
54922 009 FWK, In Person Term Based; Thomas Lane; 1-3 cr.  
54928 015 FWK, In Person Term Based; Wayne Potratz; 1-3 cr.  
54925 012 FWK, In Person Term Based; Jill Gebhardt; 1-3 cr.  
54921 008 FWK, In Person Term Based; Jill Gebhardt; 1-3 cr.

**3499 Internship at Katherine E. Nash Gallery**

(A-F only; Prereq: 1001 or ARTH 1XXX or instr consent)  
47051 001 FWK, 10:00-12:30 F, In Person Term Based; Jill Gebhardt; 3 cr.

**3510 Intermediate Printmaking: Traditional and Contemporary Approaches**

(Student Option; Prereq: 1001, [1501 or 2501 or 1502 or 2502])  
53556 001 LAB, 18:00-20:00 W, Regis Center for Art W185, 13:25-16:25 MW, Regis Center for Art W185, In Person Term Based; Jill Gebhardt; 4 cr.

**3603 Experimental Video**

(Student Option; Prereq: 1001, [1601 or 2601 or instr consent])  
59066 001 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Meets With: 001 ARTS 5630; Jill Gebhardt; 4 cr.

### 3604 Animation

(Student Option; Prereq: 1001, 1601 or 2601)  
50126 001 LAB, 10:10-14:15 F, , In Person Term Based;  
Meets With: 001 ARTS 5640; Jill Gebhardt; 4 cr.  
61265 002 LAB, In Person Term Based; Meets With: 002  
ARTS 5640; Jill Gebhardt; 4 cr.

### 3702 Photography: The Extended Image

(Student Option; Prereq: 1001, 1701 or 2701)  
50125 001 LAB, 18:00-22:00 W, Regis Center for Art W132,  
In Person Term Based; Jill Gebhardt; 4 cr.

### 3703 Photography: Digital Imaging

(Student Option; Prereq: 1001, [1703 or 2703])  
60259 002 LAB, 18:00-22:00 T, Regis Center for Art W137,  
In Person Term Based; Jill Gebhardt; 4 cr.  
50061 001 LAB, 9:05-12:05 TTh, Regis Center for Art W137,  
In Person Term Based; Jill Gebhardt; 4 cr.

### 3801 Ceramics: Wheel Throwing

(Student Option; Prereq: 1001, 1801 or 2801)  
46984 001 LAB, 13:25-16:25 MW, Regis Center for Art E156,  
In Person Term Based; Jill Gebhardt; 4 cr.

### 3802 Ceramics: Handbuilding

(Student Option; Prereq: 1001, 1801 or 2801)  
46985 001 LAB, 13:25-16:25 TTh, Regis Center for Art E154,  
In Person Term Based; Jill Gebhardt; 4 cr.

### 5105 Advanced Dimensional Painting

(Student Option; Prereq: 3105 or instr consent)  
59076 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 3105; Jill Gebhardt; 4 cr.

### 5107 Advanced Drawing Using Digital

Media  
(Student Option; Prereq: 3107 or instr consent)  
55726 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 3107; Jill Gebhardt; 4 cr.  
55726 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 3107; Jill Gebhardt; 4 cr.

### 5110 Advanced Drawing

(Student Option; Prereq: 3101 or 3111 or instr consent)  
47178 001 LAB, 9:05-12:05 TTh, Regis Center for Art W260,  
In Person Term Based; Jill Gebhardt; 4 cr.

### 5120 Advanced Painting

(Student Option; Prereq: 3102 or instr consent)  
47108 001 LAB, 13:25-16:25 TTh, Regis Center for Art  
W268, In Person Term Based; Margie McGee-Newton; 4  
cr.

### 5300 Advanced Sculpture

(Student Option; Prereq: 3300)  
59071 001 LAB, 9:05-12:05 TTh, , In Person Term Based;  
Meets With: 001 ARTS 3300; Jill Gebhardt; 4 cr.

### 5330 Advanced Sculpture: Metal Casting

(Student Option; Prereq: 3303 or instr consent)  
59074 001 LAB, 18:00-20:00 Th, , In Person Term Based;  
Meets With: 001 ARTS 3303; Jill Gebhardt; 4  
cr.

### 5340 Advanced Sculpture: Carving and Construction

(Student Option; Prereq: 3304)  
59285 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 3304; Jill Gebhardt; 4 cr.

### 5390 Advanced Sculpture Methods and Practice

(Student Option; Prereq: 5300)  
59072 001 LAB, 9:05-12:05 TTh, , In Person Term Based;  
Meets With: 001 ARTS 3390; Jill Gebhardt; 4 cr.

### 5400 Seminar: Concepts and Practices in Art

(Student Option; Prereq: BFA candidate or instr consent)  
47409 001 LEC, 13:25-16:25 F, Regis Center for Art W257,  
In Person Term Based; Jill Gebhardt; 3 cr.

### 5441 Professional Practices

(A-F only; Prereq: Grad student or [Art BFA student or  
Art Major, jr or sr])

60358 001 LEC, 9:00-12:00 F, , In Person Term Based; Jill  
Gebhardt; 3 cr.

### 5444 Bachelor of Fine Arts Exhibition

(S-N only; )  
52498 019 IND, 12:20-13:10 F, , In Person Term Based;  
Tetsuya Yamada; 1 cr.

### 5490 Workshop in Art

(Student Option; )  
55810 080 LAB, In Person Term Based; 3 cr.  
54916 003 LAB, 13:00-14:15 TTh, , In Person Term Based;  
Jill Gebhardt; 3 cr.  
53299 002 LAB, 18:00-20:00 TTh, Regis Center for Art  
W121, In Person Term Based; Jill Gebhardt; 3 cr.  
52691 001 LAB, 9:05-12:05 F, , In Person Term Based; Jill  
Gebhardt; 3 cr.  
53299 002 LAB, 18:00-20:00 TTh, Regis Center for Art  
W121, In Person Term Based; Jill Gebhardt; 3 cr.

### 5510 Advanced Printmaking

(Student Option; Prereq: 3510 or instr consent)  
50480 001 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Meets With: 018 ARTS 8500; Jill Gebhardt; 4 cr.

### 5630 Advanced Experimental Video

(Student Option; Prereq: 3603 or instr consent)  
59067 001 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Meets With: 001 ARTS 3603; Jill Gebhardt; 4 cr.

### 5640 Advanced Animation

(Student Option; Prereq: 3604 or instr consent)  
61266 002 LAB, In Person Term Based; Meets With: 002  
ARTS 3604; Jill Gebhardt; 4 cr.  
50127 001 LAB, 10:10-14:15 F, , In Person Term Based;  
Meets With: 001 ARTS 3604; Jill Gebhardt; 4 cr.

### 5670 Interdisciplinary Media Collaborations

(Student Option; Prereq: Upper-division undergraduate  
or graduate student in art, creative writing, dance,  
music or theater.)  
53557 001 LAB, 13:25-16:25 W, Regis Center for Art W123,  
In Person Term Based; Jill Gebhardt; 3 cr.

### 5701 Performed Photography:

Documentation of Artistic Acts and  
Social Interventions  
(Student Option; Prereq: Two 3xxx [photography or  
video] courses)  
60321 001 LAB, In Person Term Based; Jill Gebhardt; 4 cr.

### 5710 Advanced Photography

(Student Option; Prereq: Two semesters of 3xxx  
photography or instr consent)  
46951 001 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Jan Estep; 4 cr.

### 5810 Advanced Ceramics

(Student Option; Prereq: [3801, 3802, 3810] or instr  
consent)  
50765 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 8800; Jill Gebhardt; 4 cr.

### 5990 Independent Study in Art

(Student Option; Prereq: Major, completed regular  
course with instructor, instr consent)  
49753 019 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.  
49755 016 IND, In Person Term Based; Paul Shambroom;  
1-4 cr.  
49754 013 IND, In Person Term Based; Wayne Potratz; 1-4  
cr.  
49613 006 IND, In Person Term Based; Alexis Kuhr; 1-4 cr.  
47487 017 IND, In Person Term Based; Andrea Stanislaw; 1-4  
cr.  
47481 008 IND, In Person Term Based; Chris Larson; 1-4 cr.  
47475 001 IND, In Person Term Based; Christine Baeumler;  
1-4 cr.  
47483 011 IND, In Person Term Based; Clarence Morgan;  
1-4 cr.  
47477 003 IND, In Person Term Based; David Feinberg; 1-4  
cr.  
47479 005 IND, In Person Term Based; Diane Katsiaficas;  
1-4 cr.  
47478 004 IND, In Person Term Based; James Henkel; 1-4  
cr.  
47476 002 IND, In Person Term Based; Jan Estep; 1-4 cr.  
47486 015 IND, In Person Term Based; Jenny Schmid; 1-4  
cr.  
48691 020 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.  
47484 012 IND, In Person Term Based; Mark Pharis; 1-4 cr.  
47480 007 IND, In Person Term Based; Thomas Lane; 1-4 cr.  
47485 014 IND, In Person Term Based; Thomas Rose; 1-4 cr.  
50063 009 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.  
47482 010 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.

48625 018 IND, In Person Term Based; Jill Gebhardt; 1-4 cr.

### 8100 Practice and Critique: Drawing and Painting

(Student Option; Prereq: Art MFA student)  
48626 001 LAB, In Person Term Based; Jill Gebhardt; 3 cr.

### 8300 Practice and Critique: Sculpture

(Student Option; )  
59283 001 LEC, In Person Term Based; Jill Gebhardt; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student,  
adviser and DGS consent)  
49092 001 IND, In Person Term Based; Jill Gebhardt; 1 cr.

### 8401 Studio and Pedagogy: Philosophy and Practice

(Student Option; )  
53788 006 LEC, In Person Term Based; Jill Gebhardt; 3 cr.  
53789 008 LEC, In Person Term Based; Jill Gebhardt; 3 cr.  
57469 013 LEC, In Person Term Based; Jill Gebhardt; 3 cr.  
57468 011 LEC, In Person Term Based; Joyce Lyon; 3 cr.  
47278 001 LEC, In Person Term Based; Jill Gebhardt; 3 cr.

### 8410 Studio Critique/Visiting Artists Seminar

(A-F or Audit; Prereq: 8400)  
59524 001 LAB, 9:05-12:05 F, Regis Center for Art E231, In  
Person Term Based; Jill Gebhardt; 3 cr.

### 8490 Workshop in Art

(Student Option; )  
59628 002 LAB, In Person Term Based; Jill Gebhardt; 1-4 cr.  
59627 001 LAB, In Person Term Based; Jill Gebhardt; 1-4 cr.

### 8500 Practice and Critique: Printmaking

(Student Option; )  
53169 018 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Meets With: 001 ARTS 5510; Jill Gebhardt; 3 cr.

### 8600 Practice and Critique: Experimental and Media Arts

(Student Option; )  
50064 020 LAB, 13:25-16:25 Th, Regis Center for Art W123,  
In Person Term Based; Jill Gebhardt; 3 cr.

### 8700 Practice and Critique: Photography

(Student Option; )  
51318 002 LAB, 13:25-16:25 TTh, , In Person Term Based;  
Jan Estep; 3 cr.  
48692 006 LAB, In Person Term Based; Jill Gebhardt; 3 cr.  
48627 024 LAB, In Person Term Based; Minna Rainio; 3 cr.

### 8800 Practice and Critique: Ceramics

(A-F or Audit; )  
47408 001 LAB, 13:25-16:25 MW, , In Person Term Based;  
Meets With: 001 ARTS 5810; Jill Gebhardt; 3 cr.

### 8990 M.F.A. Creative Thesis

(Student Option; Prereq: Art MFA candidate, passed  
oral/written prelim, instr consent)  
47347 009 IND, In Person Term Based; Alexis Kuhr; 1-9 cr.  
47351 013 IND, In Person Term Based; Ali Momeni; 1-9 cr.  
47356 019 IND, In Person Term Based; Andrea Stanislaw; 1-9  
cr.  
47340 001 IND, In Person Term Based; Christine Baeumler;  
1-9 cr.  
47352 014 IND, In Person Term Based; Clarence Morgan;  
1-9 cr.  
47345 007 IND, In Person Term Based; Diane Katsiaficas;  
1-9 cr.  
47357 020 IND, In Person Term Based; Diane Willow; 1-9 cr.  
47344 006 IND, In Person Term Based; James Henkel; 1-9  
cr.  
47355 018 IND, In Person Term Based; Jenny Schmid; 1-9  
cr.  
47346 008 IND, In Person Term Based; Jerald Krepps; 1-9 cr.  
47343 005 IND, In Person Term Based; Jill Gebhardt; 1-9 cr.  
47341 002 IND, In Person Term Based; Jill Gebhardt; 1-9 cr.  
47342 003 IND, In Person Term Based; Jill Gebhardt; 1-9 cr.  
50819 022 IND, In Person Term Based; Jill Gebhardt; 1-9 cr.  
54480 024 IND, In Person Term Based; Jill Gebhardt; 1-9 cr.  
47350 012 IND, In Person Term Based; Joyce Lyon; 1-9 cr.  
51144 004 IND, In Person Term Based; Lynn Gray; 1-9 cr.  
47349 011 IND, In Person Term Based; Lynn Lukkas; 1-9 cr.  
49756 015 IND, In Person Term Based; Mark Pharis; 1-9 cr.  
47358 021 IND, In Person Term Based; Tetsuya Yamada; 1-9  
cr.  
47348 010 IND, In Person Term Based; Thomas Lane; 1-9 cr.  
47354 017 IND, In Person Term Based; Thomas Rose; 1-9 cr.  
47353 016 IND, In Person Term Based; Wayne Potratz; 1-9  
cr.



**Art History (ARTH)****1001 Introduction to Art History:****Prehistoric to Contemporary****(Student Option; AH)**

- 56398 003 DIS, 11:15-12:05 Th, Blegen Hall 205, In Person Term Based; ; 4 cr.
- 56400 005 DIS, 11:15-12:05 T, Blegen Hall 205, In Person Term Based; ; 4 cr.
- 56399 004 DIS, 8:00- 8:50 Th, Blegen Hall 210, In Person Term Based; ; 4 cr.
- 56397 002 DIS, 11:15-12:05 T, Blegen Hall 225, In Person Term Based; ; 4 cr.
- 55325 001 LEC, 9:45-11:00 TTh, Blegen Hall 10, In Person Term Based; Jennifer Marshall; 4 cr.

**1004W Introduction to Asian Art****(Student Option; HIS,WI)**

- 68741 001 LEC, 14:30-15:20 MW, Anderson Hall 370, In Person Term Based; 3 cr.

**3005 American Art****(Student Option; AH)**

- 67316 001 LEC, 11:15-12:30 MW, West Bank Skyway 20, In Person Term Based; Jennifer Marshall; 4 cr.

**3009 Medieval Art****(Student Option; AH)**

- 58526 001 LEC, 11:15-12:30 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 MEST 3009; ; 3 cr.

**3013 Introduction to East Asian Art****(Student Option; GP)**

- 67499 001 LEC, 10:10-12:05 MW, Anderson Hall 250, In Person Term Based; Minku Kim; 3 cr.

**3162 Roman Art and Archaeology****(Student Option; HIS)**

- 67593 001 LEC, 9:45-11:00 MW, Blegen Hall 250, In Person Term Based; 3 cr.

**3309 Renaissance Art in Europe****(A-F or Audit; AH)**

- 59818 001 LEC, 10:10-11:00 MWF, Blegen Hall 255, In Person Term Based; Michael Gaudio; 3 cr.

**3464 Art Since 1945****(Student Option; HIS)**

- 67594 001 LEC, 9:05- 9:55 MWF, Blegen Hall 255, In Person Term Based; Jane Blocker; 4 cr.

**3921W Art of the Film****(Student Option; AH,WI)**

- 57269 002 DIS, 11:15-12:05 W, Blegen Hall 205, In Person Term Based; ; 4 cr.
- 57270 003 DIS, 13:25-14:15 M, Blegen Hall 430, In Person Term Based; ; 4 cr.
- 57268 001 LEC, 12:20-15:00 F, Blegen Hall 120, 12:20-13:10 MW, Blegen Hall 317, In Person Term Based; Robert Silberman; 4 cr.

**3930 Junior-Senior Seminar****(A-F or Audit; )**

- 60749 002 LEC, 11:15-12:30 TTh, Walter W Heller Hall 445, In Person Term Based; Jane Blocker; 3 cr.
- 58216 001 LEC, 13:00-15:15 F, Blegen Hall 225, In Person Term Based; Jennifer Marshall; 3 cr.

**3940 Topics in Art History****(Student Option; )**

- 67495 001 LEC, 16:00-18:30 T, Blegen Hall 155, In Person Term Based; Peter Harle; 1-4 cr.
- 67498 002 LEC, 14:30-17:00 MW, Hubert H. Humphrey Center 25, In Person Term Based; Robert Silberman; 1-4 cr.

**3971V Honors: Major Project****(A-F or Audit; Prereq: Honors Arth major, instr consentWI)**

- 57823 001 IND, 14:30-15:20 Th, Blegen Hall 330, In Person Term Based; 1 cr.

**3971W Major Project****(A-F or Audit; Prereq: Arth major, instr consentWI)**

- 57824 001 IND, 14:30-15:20 Th, Blegen Hall 225, In Person Term Based; 1 cr.

**3975 Directed Museum Experience****(Student Option; Prereq: instr consent)**

- 52974 001 IND, In Person Term Based; ; 1-2 cr.

**3993 Directed Study****(A-F or Audit; Prereq: instr consent)**

- 52975 001 IND, In Person Term Based; Angelica Afanador-Pujol; 1-4 cr.
- 53081 002 IND, In Person Term Based; Catherine Asher; 1-4 cr.
- 53082 003 IND, In Person Term Based; Frederick Asher; 1-4 cr.
- 58222 011 IND, In Person Term Based; Gabriel Weisberg; 1-4 cr.
- 53083 004 IND, In Person Term Based; Jane Blocker; 1-4 cr.
- 53087 008 IND, In Person Term Based; Jennifer Marshall; 1-4 cr.
- 53084 005 IND, In Person Term Based; Matthew Canepa; 1-4 cr.
- 53085 006 IND, In Person Term Based; Michael Gaudio; 1-4 cr.
- 53086 007 IND, In Person Term Based; Minku Kim; 1-4 cr.
- 53089 010 IND, In Person Term Based; Robert Silberman; 1-4 cr.
- 53088 009 IND, In Person Term Based; Steven Ostrow; 1-4 cr.

**3994 Directed Research****(A-F or Audit; Prereq: instr consent)**

- 52976 001 IND, In Person Term Based; Angelica Afanador-Pujol; 1-4 cr.
- 56859 002 IND, In Person Term Based; Catherine Asher; 1-4 cr.
- 56860 003 IND, In Person Term Based; Frederick Asher; 1-4 cr.
- 58223 011 IND, In Person Term Based; Gabriel Weisberg; 1-4 cr.
- 56861 004 IND, In Person Term Based; Jane Blocker; 1-4 cr.
- 56865 008 IND, In Person Term Based; Jennifer Marshall; 1-4 cr.
- 56862 005 IND, In Person Term Based; Matthew Canepa; 1-4 cr.
- 56863 006 IND, In Person Term Based; Michael Gaudio; 1-4 cr.
- 56864 007 IND, In Person Term Based; Minku Kim; 1-4 cr.
- 56867 010 IND, In Person Term Based; Robert Silberman; 1-4 cr.
- 56866 009 IND, In Person Term Based; Steven Ostrow; 1-4 cr.

**5655 African-American Cinema****(Student Option; AH,DSJ)**

- 59844 001 LEC, 14:30-16:30 TTh, Blegen Hall 110, In Person Term Based; Robert Silberman; 3 cr.

**5950 Topics: Art History****(Student Option; )**

- 67496 002 LEC, In Person Term Based; Robert Silberman; 3 cr.
- 58616 001 LEC, 13:00-14:15 MW, Blegen Hall 145, In Person Term Based; Roberta Bartoli; 3 cr.

**5993 Directed Study****(A-F or Audit; Prereq: instr consent)**

- 52977 001 IND, In Person Term Based; Angelica Afanador-Pujol; 1-4 cr.
- 53090 002 IND, In Person Term Based; Catherine Asher; 1-4 cr.
- 53091 003 IND, In Person Term Based; Frederick Asher; 1-4 cr.
- 58224 011 IND, In Person Term Based; Gabriel Weisberg; 1-4 cr.
- 53092 004 IND, In Person Term Based; Jane Blocker; 1-4 cr.
- 53096 008 IND, In Person Term Based; Jennifer Marshall; 1-4 cr.
- 53093 005 IND, In Person Term Based; Matthew Canepa; 1-4 cr.
- 53094 006 IND, In Person Term Based; Michael Gaudio; 1-4 cr.
- 53095 007 IND, In Person Term Based; Minku Kim; 1-4 cr.
- 53098 010 IND, In Person Term Based; Robert Silberman; 1-4 cr.
- 53097 009 IND, In Person Term Based; Steven Ostrow; 1-4 cr.

**5994 Directed Research****(A-F or Audit; Prereq: instr consent)**

- 52978 001 IND, In Person Term Based; ; 1-4 cr.

**8320 Seminar: Issues in Early Modern****Visual Culture****(A-F or Audit; )**

- 67327 001 LEC, 12:00-14:00 Th, Hubert H. Humphrey Center 184, In Person Term Based; Michael Gaudio; 3 cr.

**8333 FTE: Master's****(No Grade Associated; Prereq: Master's student, adviser and DGS consent)**

- 52979 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral****(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)**

- 52980 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits****(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)**

- 52981 001 IND, In Person Term Based; 1-6 cr.

**8888 Thesis Credit: Doctoral****(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)**

- 52982 001 IND, In Person Term Based; 1-24 cr.

**8970 Directed Studies****(Student Option; Prereq: instr consent)**

- 52983 001 IND, In Person Term Based; 1-3 cr.

**Arts and Cultural Leadership (ACL)****5200 Trends and Impacts in Arts and Cultural Leadership****(A-F or Audit; Prereq: dept consent)**

- 60771 001 LEC, 18:00-20:30 M, Blegen Hall 210, In Person Term Based; Meets With: 001 LS 5100; Tom Borrup; 3 cr.

**5230 Ethics and the Law****(A-F or Audit; Prereq: dept consent)**

- 59025 001 LEC, 18:00-20:30 M, Room TBA, In Person Term Based; Kathleen Corley; 3 cr.

**8001 Introduction to Interdisciplinary Inquiry****(A-F or Audit; Prereq: ACL student or dept consent)**

- 60772 001 DIS, 18:15-20:45 T, Folwell Hall 119, In Person Term Based; Anita Gonzalez; 3 cr.

**Asian American Studies (AAS)****3001 Contemporary Perspectives on Asian America****(Student Option; DSJ)**

- 61028 001 LEC, 9:05- 9:55 MWF, Nicholson Hall 345, In Person Term Based; Yuichiro Onishi; 3 cr.

**3409W Asian American Women's Cultural Production****(Student Option; AH,WI,DSJ)**

- 57543 001 DIS, In Person Term Based; 3 cr.

**3503 Asian American Identities, Families, & Communities****(Student Option; DSJ,SJCS)**

- 60325 001 LEC, 13:00-14:15 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 SOC 3503001 SOC 3503H; Teresa Swartz; 3 cr.

**3862 American Immigration History****(A-F or Audit; DSJ,HIS)**

- 60324 090 LEC, 16:00-18:30 T, Nicholson Hall 35, In Person Term Based; Meets With: 090 HIST 3862001 CHIC 3862; Erika Lee; 3 cr.

**3875W Comparative Race and Ethnicity in U.S. History****(A-F or Audit; DSJ,WI,HIS)**

- 69070 001 LEC, 9:45-11:00 MW, Hubert H. Humphrey Center 60, In Person Term Based; Yuichiro Onishi; 4 cr.

**3920 Topics in Asian American Studies****(Student Option; )**

- 60327 001 LEC, 17:10-19:40 T, Nicholson Hall 315, In Person Term Based; Melissa Kwon; 2-4 cr.

**3993 Directed Studies in Asian American Studies****(Student Option; Prereq: instr consent)**

- 53985 001 IND, In Person Term Based; ; 1-9 cr.

## Asian Languages and Literature (ALL)

### 3265W The Fantastic in East Asia: Ghosts, Foxes, and the Alien

(Student Option; Prereq: Some coursework in East Asia recommendedLITR,WI)  
60119 001 LEC, 16:00-18:30 M, Nicholson Hall 125, 9:45-11:00 MW, Nicholson Hall 125, In Person Term Based; Paul Rouzer; 3 cr.

### 3337 Chinese Literature and Popular Culture Today

(A-F only; GP,LITR)  
60116 001 LEC, 13:00-14:15 TTh, Smith Hall 231, In Person Term Based; Jason McGrath; 3 cr.

### 3361W Maps, Pictures, and Writing in the Representation of Taiwan

(A-F or Audit; AH,WI,GP)  
65607 001 LEC, 14:30-15:45 TTh, Rapson Hall 45, In Person Term Based; Joseph Allen; 3 cr.

### 3436 Postwar Japanese Literature in Translation

(Student Option; Prereq: Basic knowledge of modern Japanese history helpful, knowledge of Japanese language not required)  
65612 001 LEC, 11:15-12:30 MW, Folwell Hall 12, In Person Term Based; Christine Marran; 3 cr.

### 3441W Japanese Theater

(A-F or Audit; AH,WI)  
60114 001 LEC, 14:30-15:45 MW, Folwell Hall 12, In Person Term Based; Maki Isaka; 3 cr.

### 3456 Japanese Film

(Student Option; GP)  
65613 001 LEC, 17:30-19:30 T, Folwell Hall 108, 16:00-17:15 TTh, Folwell Hall 112, In Person Term Based; 3 cr.

### 3556 Korean Film

(Student Option; )  
60121 001 LEC, 17:30-19:30 M, Akerman Hall 319, 16:00-17:15 MW, Akerman Hall 319, In Person Term Based; Travis Workman; 3 cr.

### 3920 Topics in Asian Culture

(Student Option; )  
60122 001 LEC, 16:00-17:15 MW, Folwell Hall 116, In Person Term Based; Suvadip Sinha; 3 cr.  
61032 004 LEC, 9:45-11:00 TTh, Folwell Hall 116, In Person Term Based; ; 3 cr.  
60123 002 LEC, 17:45-20:00 W, Nicholson Hall 35, 11:15-12:30 TTh, Rapson Hall 31, In Person Term Based; Baryon Tensor Posadas; 3 cr.  
68735 007 DIS, 14:00-15:15 MW, Hubert H. Humphrey Center 30, In Person Term Based; Hangtae Cho; 3 cr.  
61033 005 LEC, 11:15-12:30 TTh, Folwell Hall 116, In Person Term Based; Katrien Vanpee; 3 cr.  
60123 002 LEC, 17:45-20:00 W, Nicholson Hall 35, 11:15-12:30 TTh, Rapson Hall 31, In Person Term Based; Baryon Tensor Posadas; 3 cr.  
67725 006 LEC, 14:30-15:45 MW, Folwell Hall 116, In Person Term Based; Sungok Hong; 3 cr.  
60124 003 LEC, 14:30-15:45 TTh, Folwell Hall 118, In Person Term Based; Travis Workman; 3 cr.

### 4900W Major Project

(A-F or Audit; Prereq: ALL major, srWI)  
57818 001 LEC, 13:00-14:15 MW, Nicholson Hall 125, In Person Term Based; Christine Marran; 3 cr.

### 5261 Work of Translation: Theory, Function, and Practice

(A-F only; Prereq: [Native or near-native] speaker of English, advanced speaker/reader of at least one other [classical or vernacular] language)  
60113 001 DIS, 9:45-11:00 TTh, Folwell Hall 107, In Person Term Based; Joseph Allen; 3 cr.

### 5920 Topics in Asian Culture

(Student Option; )  
60118 001 DIS, 13:00-14:15 TTh, Folwell Hall 5, In Person Term Based; ; 3 cr.  
60120 002 DIS, 14:30-17:20 T, Folwell Hall 4, In Person Term Based; Meets With: 001 HIST 5940001 EMS5500; Ann Waitner; 3 cr.

### 8002 Critical Approaches to Asian Studies

(Student Option; )  
60115 001 LEC, 13:00-14:15 TTh, Folwell Hall 107, In Person Term Based; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, [adviser, DGS] consent)  
56606 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, [adviser, DGS] consent)  
56607 001 IND, In Person Term Based; 1 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; )  
56609 001 IND, In Person Term Based; 1-24 cr.

## Astronomy (AST)

### 1001 Exploring the Universe

(Student Option; ENV,PHYS)  
46116 116 LAB, 9:05-11:00 F, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
48891 113 LAB, 9:05-11:00 Th, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46100 102 LAB, 10:10-12:05 M, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46112 118 LAB, 13:25-15:20 F, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
50522 108 LAB, 13:25-15:20 T, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
59839 002 LEC, 10:10-11:00 MWF, West Bank Skyway 20, In Person Term Based; michael rutkowski; 4 cr.  
57311 004 LEC, 19:15-20:30 TTh, West Bank Skyway 20, In Person Term Based; Meets With: 001 AST 1005; Terry Thibeault; 4 cr.  
46097 001 LEC, 9:45-11:00 TTh, Anderson Hall 210, In Person Term Based; Terry Thibeault; 4 cr.  
46098 003 LEC, 13:00-14:15 TTh, Anderson Hall 210, In Person Term Based; Terry Thibeault; 4 cr.  
49495 106 LAB, 9:05-11:00 T, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46106 110 LAB, 10:10-12:05 W, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46111 117 LAB, 11:15-13:10 F, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46109 114 LAB, 11:15-13:10 Th, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46104 107 LAB, 11:15-13:10 T, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46107 111 LAB, 12:20-14:15 W, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46103 103 LAB, 12:20-14:15 M, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46108 112 LAB, 14:30-16:25 W, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46101 104 LAB, 14:30-16:25 M, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46110 115 LAB, 16:40-18:35 Th, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46105 109 LAB, 16:40-18:35 T, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46102 105 LAB, 16:40-18:35 M, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.  
46099 101 LAB, 8:00-9:55 M, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.

### 1005 Descriptive Astronomy

(Student Option; Prereq: non-science major)  
50068 001 LEC, 19:15-20:30 TTh, West Bank Skyway 20, In Person Term Based; Meets With: 004 AST 1001; Terry Thibeault; 3 cr.

### 1011H Exploring the Universe, Honors

(A-F only; Prereq: High school trigonometry, [high school physics or chemistry]ENV,PHYS)  
56876 001 LEC, 14:30-15:20 MTW, Appleby Hall 226, In Person Term Based; Terry Thibeault; 4 cr.  
56877 002 LAB, 14:30-16:25 Th, Appleby Hall 102, In Person Term Based; Terry Thibeault; 4 cr.

### 1905 Freshman Seminar

(Student Option No Audit; Prereq: freshman)  
53058 002 LEC, 15:35-17:30 W, Ford Hall B60, In Person Term Based; Terry Thibeault; 2 cr.  
49776 001 LEC, 15:35-17:30 T, Civil Engineering Bldg 213, In Person Term Based; Terry Thibeault; 2 cr.

### 2001 Introduction to Astrophysics

(Student Option; Prereq: [One yr calculus, PHYS 1302] or instr consent)

46121 001 LEC, 10:10-12:05 TTh, West Bank Skyway 20, In Person Term Based; Terry Thibeault; 4 cr.

### 2990 Directed Studies

(Student Option; Prereq: 1 yr calculus, Phys 1302, instr consent)  
59838 012 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
46122 001 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52534 002 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52535 003 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52536 004 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52537 005 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52538 006 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52539 007 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52592 008 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53391 009 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53392 010 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53393 011 IND, In Person Term Based; Terry Thibeault; 1-5 cr.

### 4002 Astrophysics II

(A-F or Audit; Prereq: 2001, Phys 2601)  
51612 001 LEC, 9:05-11:00 TTh, Peik Gymnasium G65, In Person Term Based; Liliya Williams; 4 cr.

### 4299H Senior Honors Astrophysics

**Research Seminar**  
(Student Option; Prereq: upper div honors student in IT or CLA, instr consent)  
46125 001 LEC, 14:30-15:20 F, Smith Hall 331, In Person Term Based; Meets With: 001 AST 8200; Terry Thibeault; 1 cr.

### 4990 Directed Studies

(Student Option; Prereq: 2001, instr consent)  
57588 012 IND, In Person Term Based; Paul Woodward; 1-5 cr.  
46123 001 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52540 002 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52541 003 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52542 004 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52543 005 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52544 006 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52545 007 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
52593 008 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53388 009 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53389 010 IND, In Person Term Based; Terry Thibeault; 1-5 cr.  
53390 011 IND, In Person Term Based; Terry Thibeault; 1-5 cr.

### 4994W Directed Research

(Student Option; Prereq: instr consentWI)  
59021 021 IND, In Person Term Based; Clement Pryke; 3-5 cr.  
59013 013 IND, In Person Term Based; Cynthia Cattell; 3-5 cr.  
59023 023 IND, In Person Term Based; John Wygant; 3-5 cr.  
59019 019 IND, In Person Term Based; Keith Olive; 3-5 cr.  
59015 015 IND, In Person Term Based; Lucy Fortson; 3-5 cr.  
59020 020 IND, In Person Term Based; Marco Peloso; 3-5 cr.  
59012 012 IND, In Person Term Based; Paul Woodward; 3-5 cr.  
59014 014 IND, In Person Term Based; Priscilla Cushman; 3-5 cr.  
59017 017 IND, In Person Term Based; Robert Lysak; 3-5 cr.  
59016 016 IND, In Person Term Based; Shaul Hanany; 3-5 cr.  
46124 001 IND, In Person Term Based; Terry Thibeault; 3-5 cr.  
52546 002 IND, In Person Term Based; Terry Thibeault; 3-5 cr.  
52547 003 IND, In Person Term Based; Terry Thibeault; 3-5 cr.  
52548 004 IND, In Person Term Based; Terry Thibeault; 3-5 cr.



**5444 Muscle**

(Student Option; Prereq: 3021 or BIOL 3021 or 4331 or BIOL 4331 or PHSL 3061 or instr consent)  
50070 001 LEC, 16:00-17:15 TTh, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 5444001 BMEN 5444; Sarah Dittrich; 3 cr.

**5528 Spectroscopy and Kinetics**

(Student Option; Prereq: Intro physical chemistry or equiv; intro biochemistry recommended)  
50071 001 LEC, 10:10-12:05 TTh, In Person Term Based; John Lipscomb; 4 cr.

**5960 Special Topics in Biochemistry**

(A-F only; Prereq: [[3021 or equiv], CHEM 2301]] or instr consent)  
56779 001 LEC, 8:15- 9:30 TTh, McNeal Hall 146, In Person Term Based; Meets With: 001 BIOC 4960; Lawrence Wackett; 3 cr.

**6021 Biochemistry**

(Student Option; Prereq: general biology, organic chemistry, instr consent; intended for MBS students)  
54166 A94 LEC, Online & Distance Lrng (ODL); Robert Roon; 3 cr.  
50074 003 LEC, 9:45-11:00 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Meets With: 003 BIOC 3021; Kenneth Adolph; 3 cr.  
50072 001 LEC, 13:00-14:15 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Meets With: 001 BIOC 3021; Paul Siliciano; 3 cr.  
50073 002 LEC, 15:00-16:15 TTh, Ruttan Hall B45, In Person Term Based; Meets With: 002 BIOC 3021; Janet Schottel; 3 cr.

**8084 Research and Literature Reports**

(S-N or Audit; Prereq: Grad BMBB major or instr consent)  
46952 001 LEC, 12:20-13:10 T, In Person Term Based; Sarah Dittrich; 1 cr.

**8184 Graduate Seminar**

(S-N or Audit; Prereq: grad BMBB major or DGS consent)  
46953 001 LEC, 16:00-17:00 W, In Person Term Based; Ian Armitage; 1 cr.

**8290 Current Research Techniques**

(S-N or Audit; Prereq: Grad BMBB major)  
52505 001 IND, In Person Term Based; Sarah Dittrich; 1-3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49310 001 IND, In Person Term Based; Sarah Dittrich; 1 cr.

**8401 Ethics, Public Policy, and Careers in Molecular and Cellular Biology**

(S-N or Audit; Prereq: Grad student in [BMBB or MCDB] concurrent registration is required (or allowed) in G)  
52908 001 LEC, 15:35-17:15 M, Rapson Hall 43, In Person Term Based; Brian Van Ness; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49194 001 IND, In Person Term Based; Sarah Dittrich; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49277 001 IND, In Person Term Based; Sarah Dittrich; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49383 001 IND, In Person Term Based; Sarah Dittrich; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49311 001 IND, In Person Term Based; Sarah Dittrich; 1-24 cr.

**5000 Topics in Bioethics**

(Student Option; Prereq: Grad student or instr consent)  
69134 001 LEC, 16:30-17:20 Th, In Person Term Based; Steven Miles; 1-4 cr.

**5010 Bioethics Proseminar**

(A-F only; Prereq: Bioethics grad student or grad minor)  
60911 001 LEC, In Person Term Based; 2 cr.

**5100 Introduction to Clinical Ethics**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
55501 001 LEC, 16:00-18:30 M, In Person Term Based; Steven Miles; 3 cr.

**5110 Ethical Issues in Pediatrics**

(A-F only; )  
67634 001 DIS, 16:00-17:40 T, In Person Term Based; Donald Brunnquell; 0 cr.

**5210 Ethics of Human Subjects Research**

(Student Option; Prereq: Grad student or instr consent)  
60912 001 LEC, In Person Term Based; 3 cr.

**5300 Foundations of Bioethics**

(Student Option; Prereq: Grad student or instr consent)  
67637 001 LEC, In Person Term Based; 3 cr.

**5325 Biomedical Ethics**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
57939 001 LEC, 15:20-18:10 W, In Person Term Based; Susan Wolf; 3 cr.

**5400 Intro Ethics in Hlth Policy**

(Student Option; Prereq: Grad student or professional student or instr consent)  
60913 001 LEC, In Person Term Based; 3 cr.

**5411 Health Law and Policy**

(A-F or Audit; Prereq: Grad student or instr consent)  
60914 001 LEC, In Person Term Based; 3 cr.

**5453 Law, Biomedicine, and Bioethics**

(A-F only; Prereq: Grad student or instr consent)  
60915 001 LEC, In Person Term Based; 3 cr.

**5610 Research & Publication Seminar**

(Student Option; Prereq: [Junior or senior or grad student], bioethics grad majors must register A-F)  
60916 001 LEC, 14:00-14:50 Th, In Person Term Based; Steven Miles; 1 cr.

**5620 Social Context of Health and Illness**

(Student Option; Prereq: Grad student or instr consent)  
60917 001 LEC, In Person Term Based; 3 cr.

**8100 Advanced Theory & Practice of Clinical Ethics**

(Student Option; Prereq: BTHX 5100 or instr consent)  
69091 001 DIS, 16:30-18:10 M, In Person Term Based; Joan Liaschenko; 2 cr.

**8110 Ethical Issues in Pediatrics**

(A-F only; )  
69100 001 DIS, In Person Term Based; 2 cr.

**8114 Ethical and legal Issues in Genetic Counseling**

(A-F or Audit; Prereq: [MCDG MS, genetic counseling specialization] or instr consent)  
60918 001 LEC, In Person Term Based; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser consent, DGS consent)  
55503 001 IND, In Person Term Based; 1 cr.

**8610 Medical Consumerism**

(Student Option; )  
60919 001 LEC, 9:30-12:00 Th, In Person Term Based; 3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; )  
55504 001 IND, In Person Term Based; 1-18 cr.

**5490 Topics in Bioinformatics**

(Student Option; Prereq: instr consent)  
50762 001 IND, In Person Term Based; Lynda Ellis; 1-6 cr.

**Biology (BIOL)****1001 Introductory Biology: Evolutionary and Ecological Perspectives**

(Student Option; BIOL)  
60853 050 LEC, 11:15-12:30 TTh, Bruininks Hall 220, In Person Term Based; ; 4 cr.  
60856 058 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-140, In Person Term Based; ; 4 cr.  
60855 057 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-140, In Person Term Based; ; 4 cr.  
47036 051 LAB, 14:30-16:25 M, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
51147 009 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
49317 006 LAB, 8:00- 9:55 W, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
49316 053 LAB, 8:00- 9:55 T, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47038 055 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47030 002 LAB, 10:10-12:05 M, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47035 008 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47034 007 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47032 004 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47031 003 LAB, 12:20-14:15 M, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47039 056 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
49315 054 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47033 005 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47037 052 LAB, 16:40-18:35 M, Molecular Cellular Biol 2-140, In Person Term Based; Gerylgn Grosinger; 4 cr.  
47029 001 LEC, 9:45-11:00 TTh, Bruininks Hall 220, In Person Term Based; Gerylgn Grosinger; 4 cr.

**1003 Evolution and Biology of Sex**

(Student Option; BIOL)  
59303 030 LEC, 13:00-14:15 TTh, Bruininks Hall 220, In Person Term Based; ; 4 cr.  
59423 040 LEC, 14:30-15:45 TTh, Bruininks Hall 220, In Person Term Based; ; 4 cr.  
55381 001 LEC, 9:45-11:00 MW, Bruininks Hall 412, In Person Term Based; ; 4 cr.  
56785 020 LEC, 11:15-12:30 MW, Bruininks Hall 412, In Person Term Based; ; 4 cr.  
56789 024 LAB, 8:00- 9:55 W, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
56786 021 LAB, 8:00- 9:55 T, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59308 035 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59426 043 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59304 031 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
55385 005 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
55384 004 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
55382 002 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
55386 006 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59427 044 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59305 032 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.  
59851 045 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
59424 041 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
59306 033 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
56787 022 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
56788 023 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
59307 034 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
59425 042 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-138, In Person Term Based; ; 4 cr.  
55383 003 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-136, In Person Term Based; ; 4 cr.

**Bioethics, Center for (BTHX)****Bioinformatics (BINF)**



58452 030 LAB, 18:00-21:00 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 030 BIOL 2002; ; 6 cr.

67583 042 LAB, 8:30-11:30 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 042 BIOL 2002; ; 6 cr.

58447 011 LAB, 18:00-21:00 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 011 BIOL 2002; ; 6 cr.

67584 043 LAB, 8:30-11:30 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 043 BIOL 2002; ; 6 cr.

58446 010 LAB, 17:10-20:10 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 010 BIOL 2002; ; 6 cr.

67585 044 LAB, 8:30-11:30 MW, Biological Science Ctr 286, In Person Term Based; Meets With: 044 BIOL 2002; ; 6 cr.

58449 027 LAB, 12:50-15:50 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 027 BIOL 2002; ; 6 cr.

58451 029 LAB, 17:10-20:10 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 029 BIOL 2002; ; 6 cr.

58080 025 LAB, 8:30-11:30 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 025 BIOL 2002; Mark Decker; 6 cr.

54426 020 LEC, 10:10-11:00 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 020 BIOL 2002; ; 6 cr.

54609 007 LAB, 9:35-12:35 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 007 BIOL 2002; GERALYN GROSINGER; 6 cr.

54611 009 LAB, 13:55-16:55 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 009 BIOL 2002; GERALYN GROSINGER; 6 cr.

54610 008 LAB, 12:50-15:50 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 008 BIOL 2002; GERALYN GROSINGER; 6 cr.

54427 021 DIS, 11:15-12:05 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 021 BIOL 2002; Mark Decker; 6 cr.

54422 003 LAB, 12:50-15:50 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 003 BIOL 2002; GERALYN GROSINGER; 6 cr.

54424 005 LAB, 17:10-20:10 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 005 BIOL 2002; GERALYN GROSINGER; 6 cr.

54428 022 LAB, 12:50-15:50 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 022 BIOL 2002; GERALYN GROSINGER; 6 cr.

54429 023 LAB, 17:10-20:10 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 023 BIOL 2002; GERALYN GROSINGER; 6 cr.

54425 006 LAB, 8:30-11:30 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 006 BIOL 2002; GERALYN GROSINGER; 6 cr.

54423 004 LAB, 12:50-15:50 MW, Biological Science Ctr 286, In Person Term Based; Meets With: 004 BIOL 2002; GERALYN GROSINGER; 6 cr.

54430 024 LAB, 17:10-20:10 MW, Biological Science Ctr 286, In Person Term Based; Meets With: 024 BIOL 2002; GERALYN GROSINGER; 6 cr.

54420 001 LEC, 8:00- 8:50 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 2002; ; 6 cr.

### 2003 Foundations of Biology for Biological Sciences Majors, Part II

(A-F only; Prereq: 2002 or 2002H or CBS major)

54089 001 LEC, 8:00- 8:50 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 001 BIOL 2003H; ; 3 cr.

58625 005 LEC, 10:10-11:00 MW, Bruininks Hall 312, In Person Term Based; Meets With: 005 BIOL 2003H; ; 3 cr.

54090 002 DIS, 9:05- 9:55 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 002 BIOL 2003H; ; 3 cr.

58626 006 DIS, 11:15-12:05 MW, Bruininks Hall 312, In Person Term Based; Meets With: 006 BIOL 2003H; ; 3 cr.

54091 003 LEC, 10:10-11:00 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 003 BIOL 2003H; ; 3 cr.

54614 004 DIS, 11:15-12:05 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 004 BIOL 2003H; ; 3 cr.

### 2003H Foundations of Biology for Biological Sciences Majors, Part II (A-F only; Prereq: [2002 or 2002H], honors)

54417 001 LEC, 8:00- 8:50 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 001 BIOL 2003; ; 3 cr.

58627 005 LEC, 10:10-11:00 MW, Bruininks Hall 312, In Person Term Based; Meets With: 005 BIOL 2003; ; 3 cr.

54418 002 DIS, 9:05- 9:55 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 002 BIOL 2003; ; 3 cr.

58628 006 DIS, 11:15-12:05 MW, Bruininks Hall 312, In Person Term Based; Meets With: 006 BIOL 2003; ; 3 cr.

54419 003 LEC, 10:10-11:00 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 003 BIOL 2003; ; 3 cr.

54621 004 DIS, 11:15-12:05 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 004 BIOL 2003; ; 3 cr.

### 2005 Animal Diversity Laboratory

#### (Student Option; )

48238 007 LAB, 9:35-12:35 Th, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48235 004 LAB, 9:35-12:35 W, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48232 001 LAB, 9:35-12:35 T, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48239 008 LAB, 13:55-16:55 Th, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48233 002 LAB, 13:55-16:55 T, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48237 006 LAB, 15:00-18:00 W, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48240 009 LAB, 18:10-21:10 Th, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48234 003 LAB, 18:10-21:10 T, Biological Sciences Ctr 107, In Person Term Based; Sehoya Cotner; 2 cr.

48241 010 LAB, 11:45-14:45 F, Biological Sciences Ctr 182, In Person Term Based; Sehoya Cotner; 2 cr.

48236 005 LAB, 13:55-16:55 W, Biological Sciences Ctr 182, In Person Term Based; Sehoya Cotner; 2 cr.

### 2007 Marine Animal Diversity Laboratory

(A-F only; Prereq: Introductory biology with lab)

59362 001 LAB, 12:50-15:50 Th, Biological Sciences Ctr 182, In Person Term Based; Meets With: 006 BIOL 2012; Sehoya Cotner; 2 cr.

### 2012 General Zoology

(Student Option; Prereq: One semester of college biology)

48149 005 LAB, 8:30-11:30 Th, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

48146 002 LAB, 8:30-11:30 T, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

48148 004 LAB, 10:40-13:40 W, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

48147 003 LAB, 12:50-15:50 T, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

53254 007 LAB, 17:10-20:10 Th, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

60399 008 LAB, 17:10-20:10 T, Biological Sciences Ctr 182, In Person Term Based; ; 4 cr.

48145 001 LEC, 9:35-10:25 MWF, Green Hall 110, In Person Term Based; Vanessa Pompei; 4 cr.

48150 006 LAB, 12:50-15:50 Th, Biological Sciences Ctr 182, In Person Term Based; Meets With: 001 BIOL 2007; Sehoya Cotner; 4 cr.

### 2100 Brewing: The Biology, History, and Practice

(A-F only; Prereq: 1001 or 1009 or 2002 or 2003 or 2004)

61059 001 LEC, In Person Term Based; James Cotner; 3 cr.

### 2301 Leadership and Service

(S-N only; Prereq: 1301, CBS Dean's Scholar)

57969 002 DIS, 13:25-15:20 F, Bruininks Hall 420A, In Person Term Based; Meaghan Stein; 2 cr.

55048 001 DIS, 15:35-17:30 T, Bruininks Hall 420A, In Person Term Based; Meaghan Stein; 2 cr.

### 2905 Nature of Life, Part III

(S-N only; Prereq: 1805, 1806)

60250 001 IND, In Person Term Based; GERALYN GROSINGER; 0.5 cr.

### 2906 Nature of Life, Part IV

(S-N only; Prereq: 2905)

60223 001 IND, Completely Online; Robin Wright; 0.5 cr.

### 3001 Nature of Science and Research

(S-N only; Prereq: College-level biology)

58728 001 DIS, In Person Term Based; 1 cr.

### 3002 Plant Biology: Function

(Student Option; Prereq: [1002 or 1009 or 2003 or equiv], [CHEM 1011 or one semester chemistry with some organic content])

48329 001 LEC, 12:50-13:40 TTh, Andrew Boss Laboratory 125, In Person Term Based; Neil Olszewski; 2 cr.

52987 002 LEC, 16:05-16:55 MW, Ruttan Hall B45, In Person Term Based; Neil Olszewski; 2 cr.

### 3004 Foundations of Biology for Biological Sciences Majors, Part II Laboratory

(A-F only; Prereq: [2002 or 2002H or CBS major])

54863 001 LEC, 12:50-14:45 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 001 BIOL 3004H; ; 3 cr.

58517 007 LEC, 15:00-16:55 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 007 BIOL 3004H; ; 3 cr.

68502 015 LEC, 16:05-18:00 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 015 BIOL 3004H; ; 3 cr.

58516 006 LEC, 12:50-14:45 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 006 BIOL 3004H; Adam Engelhardt; 3 cr.

54866 004 LEC, 8:30-10:25 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 004 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54947 012 LEC, 9:35-11:30 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 012 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54867 005 LEC, 10:40-12:35 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 005 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

58074 013 LEC, 11:45-13:40 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 013 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54869 008 LEC, 11:45-13:40 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 008 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54864 002 LEC, 15:00-16:55 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 002 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54865 003 LEC, 18:00-19:55 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 003 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

54946 011 LEC, 18:30-20:25 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 011 BIOL 3004H; Catherine Kirkpatrick; 3 cr.

58075 014 LEC, 13:55-15:50 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 014 BIOL 3004H; GERALYN GROSINGER; 3 cr.

54868 009 LEC, 13:55-15:50 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 009 BIOL 3004H; GERALYN GROSINGER; 3 cr.

55715 010 LEC, 16:05-18:00 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 010 BIOL 3004H; GERALYN GROSINGER; 3 cr.

### 3004H Foundations of Biology for Biological Sciences Majors, Part II Laboratory

(A-F only; Prereq: [2002 or 2002H], honors)

54961 001 LEC, 12:50-14:45 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 001 BIOL 3004; ; 3 cr.

58519 007 LEC, 15:00-16:55 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 007 BIOL 3004; ; 3 cr.

68504 015 LEC, 16:05-18:00 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 015 BIOL 3004; ; 3 cr.

58518 006 LEC, 12:50-14:45 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 006 BIOL 3004; Adam Engelhardt; 3 cr.

54964 004 LEC, 8:30-10:25 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 004 BIOL 3004; Catherine Kirkpatrick; 3 cr.

55727 012 LEC, 9:35-11:30 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 012 BIOL 3004; Catherine Kirkpatrick; 3 cr.

54965 005 LEC, 10:40-12:35 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 005 BIOL 3004; Catherine Kirkpatrick; 3 cr.

58076 013 LEC, 11:45-13:40 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 013 BIOL 3004; Catherine Kirkpatrick; 3 cr.

54966 008 LEC, 11:45-13:40 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 008 BIOL 3004; Catherine Kirkpatrick; 3 cr.

54962 002 LEC, 15:00-16:55 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 002 BIOL 3004; Catherine Kirkpatrick; 3 cr.

54963 003 LEC, 18:00-19:55 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 003 BIOL 3004; Catherine Kirkpatrick; 3 cr.

54969 011 LEC, 18:30-20:25 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 011 BIOL 3004; Catherine Kirkpatrick; 3 cr.

58077 014 LEC, 13:55-15:50 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 014 BIOL 3004; GERALYN GROSINGER; 3 cr.

54967 009 LEC, 13:55-15:50 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 009 BIOL 3004; GERALYN GROSINGER; 3 cr.

54968 010 LEC, 16:05-18:00 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 010 BIOL 3004; GERALYN GROSINGER; 3 cr.

### 3005W Plant Function Laboratory

(Student Option; Prereq: Concurrent enrollment 3002WI)

68744 006 LAB, 9:30-12:30 Th, Biological Sciences Ctr 176, In Person Term Based; 2 cr.

48330 001 LEC, 15:00-15:50 M, Biological Sciences Ctr 64, In Person Term Based; M Marks; 2 cr.

48331 002 LAB, 9:35-12:35 T, Biological Sciences Ctr 176, In Person Term Based; M Marks; 2 cr.

51558 005 LAB, 13:55-16:55 Th, Biological Sciences Ctr 176, In Person Term Based; M Marks; 2 cr.

49314 003 LAB, 17:55-20:55 T, Biological Sciences Ctr 176, In Person Term Based; M Marks; 2 cr.

### 3020 Molecular Biology and Society

(S-N only; Prerequisite for most upper-level CBS courses. prereq: Biol 1009 or 2002, and Chem 1062TS) 68729 001 DIS, 14:30-15:45 MW, Nicholson Hall 155, In Person Term Based; David Kirkpatrick; 3 cr.

### 3209 Understanding the Evolution-Creationism Controversy

(A-F only; Prereq: 1001 or 1009 or 2002 or equivCIV) 56355 001 LEC, 8:15- 9:30 TTh, Molecular Cellular Biol 2-122, In Person Term Based; Randy Moore; 3 cr.

### 3211 Physiology of Humans and Other Animals

(Student Option; Prereq: [1009 or 2003 or equiv], [CHEM 1021 or 1061], [2005 is recommended]) 48175 001 LEC, 10:10-11:00 MWF, Bruininks Hall 330, In Person Term Based; Michele Price; 3 cr.

### 3270 Introduction To Systems Biology

(A-F only; ) 59064 001 LEC, 13:55-14:45 M, Biological Sciences Ctr 64, In Person Term Based; Igor Libourel; 3 cr. 59630 002 LAB, 13:55-15:35 W, Biological Sciences Ctr 64, In Person Term Based; Igor Libourel; 3 cr.

### 3272 Applied Biostatistics

(A-F only; Prereq: High school algebra; 2003 recommended) 60181 001 LEC, 10:15-11:30 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 5272; Yaniv Brandvain; 3 cr.

### 3302 Leadership For Change

(S-N only; Prereq: 1301, 2301, CBS dean's scholar) 55731 001 DIS, 15:35-16:25 W, Bruininks Hall 420A, In Person Term Based; Meaghan Stein; 1 cr.

### 3600 Directed Instruction

(S-N or Audit; Prereq: 1020, upper div, application, instr consent; up to 4 cr may apply to major) 47563 001 IND, In Person Term Based; Kathryn Hanna; 1-2 cr.

### 3610 Internship: Professional Experience in Biological Sciences

(S-N or Audit; Prereq-Acceptance into CBS Internship Program, internship workshop, college consent.) 48802 001 FWK, In Person Term Based; Rebecca Dordel; 1-6 cr.

### 3700 Undergraduate Seminar

(Student Option; ) 68438 001 LEC, In Person Term Based; 1-3 cr.

### 3960H Communicating in the Biological Sciences

(A-F only; Prereq: CBS honors) 58209 001 LEC, 14:30-15:20 M, Bruininks Hall 117, In Person Term Based; Susan Wick; 1 cr.

### 4003 Genetics

(Student Option; Prereq: [[BIOC 3021 or BIOC 4331], [any CBS major or major in [animal science or applied plant science or BA biology or BA microbiology or nutrition or physiology or biology/society/environment or biomedical engineering] or Grad MBS major]] or instr consent) 67600 004 LEC, 8:45-10:00 TTh, Biological Sciences Ctr 64, In Person Term Based; Nathan Springer; 3 cr. 67599 002 LEC, 17:30-18:45 TTh, Ruttan Hall B35, In Person Term Based; William Gray; 3 cr. 57261 A94 LEC, Online & Distance Lrng (ODL); Robert Brooker; 3 cr. 58541 001 LEC, 11:45-12:35 MWF, Ruttan Hall B35, In Person Term Based; Sue Knoblauch; 3 cr. 50550 003 LEC, 13:25-14:15 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Sue Knoblauch; 3 cr.

### 4004 Cell Biology

(Student Option; Prereq: 4003, [BIOC 3021 or BIOC 4331], [CBS major or CSE major or grad MSB major]) 53021 003 LEC, 8:00- 8:50 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Deanna Koopp; 3 cr. 56461 A94 LEC, Online & Distance Lrng (ODL); Jan Norrander; 3 cr. 58542 001 LEC, 11:45-13:00 WF, Ruttan Hall B45, In Person Term Based; Sue Knoblauch; 3 cr. 50549 002 LEC, 11:15-12:30 TTh, Smith Hall 231, In Person Term Based; Sue Knoblauch; 3 cr.

### 4121 Microbial Ecology and Applied Microbiology

(A-F or Audit; Prereq: 3301) 51311 001 LEC, 11:45-13:00 TTh, Borlaug Hall 375, In Person Term Based; Michael Sadowsky; 3 cr.

### 4201 Teaching in the Biology Laboratory

(S-N only; Prereq: Student who is teaching in CBS lab course) 55693 001 FWK, In Person Term Based; Adam Engelhardt; 1 cr. 56733 002 FWK, In Person Term Based; Cheryl Scott; 1 cr.

### 4590 Coral Reef Ecology

(A-F only; Prereq: Introductory biology course with lab) 60239 001 DIS, In Person Term Based; 2 cr.

### 4950 Special Topics in Biology

(Student Option; ) 68482 001 LEC, In Person Term Based; 1-4 cr.

### 4961H Thesis Writing in the Biological Sciences: Conveying and

Contextualizing Results (A-F only; Prereq: honors, CBS student or interdisciplinary major with life sciences focus) 58212 002 LEC, 10:10-11:00 F, Bruininks Hall 420B, In Person Term Based; Leslie Schiff; 1 cr. 58193 001 LEC, 12:20-13:10 W, Bruininks Hall 312, In Person Term Based; Leslie Schiff; 1 cr.

### 5272 Applied Biostatistics

(A-F only; Prereq: One semester of college-level [[calculus or statistics or computer programming], general biology]) 60694 001 LEC, 10:15-11:30 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 3272; Yaniv Brandvain; 3 cr.

### 5309 Molecular Ecology And Ecological

Genomics (Student Option; Prereq: BIOL 3407 or BIOL 3409 or BIOL 4003) 60846 001 LEC, 11:15-12:30 TTh, Biological Sciences Ctr 257, In Person Term Based; Peter Tiffin; 3 cr.

### 5910 Special Topics in Biology for

Teachers (Student Option; Prereq: BA or BS in science or science education or elementary education or K-12 licensed teacher) 55948 001 LEC, In Person Term Based; Susan Wick; 1-4 cr.

### 6793 Directed Studies

(Student Option; Prereq: MBS, 7 cr max, instr consent) 49811 001 IND, In Person Term Based; James Fuchs; 1-7 cr.

### 6794 Directed Research

(S-N or Audit; Prereq: MBS, instr consent) 49812 001 IND, In Person Term Based; James Fuchs; 1-7 cr.

### 6999 Capstone Project

(S-N or Audit; Prereq: MBS, instr consent) 49813 001 IND, In Person Term Based; Janet Schottel; 2 cr.

## Biology, Society, and Environ (BSE)

### 2001 An Introduction to Biology, Society, and Environment

(A-F only; Prereq: BSE major. Must be completed prior to senior year.) 57925 001 LEC, 13:25-15:20 W, Anderson Hall 310, In Person Term Based; Roderick Squires; 2 cr.

## Biomedical Engineering (BMEN)

### 1602 Biomedical Engineering

Undergraduate Seminar II (A-F only; Prereq: CSE student) 49786 001 LEC, 14:30-15:20 W, Molecular Cellular Biol 3-120, In Person Term Based; Shai Ashkenazi; 1 cr.

### 2101 Biomedical Thermodynamics

(A-F only; Prereq: 2501, CHEM 1022, MATH 2373, concurrent registration is required (or allowed) in MATH 2374)

54238 001 LEC, 13:00-14:15 TTh, Vincent Hall 16, In Person Term Based; Casim Sarkar; 3 cr. 54976 006 DIS, 8:00- 8:50 Th, Amundson Hall 156, In Person Term Based; Casim Sarkar; 3 cr. 54973 003 DIS, 12:20-13:10 W, Bruininks Hall 144, In Person Term Based; Casim Sarkar; 3 cr. 54972 002 DIS, 12:20-13:10 M, Bruininks Hall 144, In Person Term Based; Casim Sarkar; 3 cr. 54975 005 DIS, 8:00- 8:50 T, Bruininks Hall 420A, In Person Term Based; Casim Sarkar; 3 cr. 54974 004 DIS, 12:20-13:10 F, Bruininks Hall 420A, In Person Term Based; Casim Sarkar; 3 cr.

### 3111 Biomedical Transport Processes

(A-F or Audit; Prereq: [3011, 3015], [BMEN upper div or dept consent]) 58300 001 LEC, 10:10-11:00 MWF, Molecular Cellular Biol 3-120, In Person Term Based; David Wood; 3 cr. 58302 003 DIS, 9:05- 9:55 Th, Amundson Hall 116, In Person Term Based; David Wood; 3 cr. 58303 004 DIS, 8:00- 8:50 W, Bruininks Hall 432A, In Person Term Based; David Wood; 3 cr. 58301 002 DIS, 9:05- 9:55 T, Bruininks Hall 432A, In Person Term Based; David Wood; 3 cr.

### 3115 Biomedical Transport Processes Lab

(A-F or Audit; Prereq: [3011, concurrent registration is required (or allowed) in 3111], [BMEN upper div or dept consent]) 58327 003 LAB, 10:10-12:05 Th, Moos Health Sci Tower 3-238, In Person Term Based; David Wood; 1 cr. 58325 001 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-238, In Person Term Based; David Wood; 1 cr. 58328 004 LAB, 12:20-14:15 Th, Moos Health Sci Tower 3-238, In Person Term Based; David Wood; 1 cr. 58326 002 LAB, 12:20-14:15 T, Moos Health Sci Tower 3-238, In Person Term Based; David Wood; 1 cr.

### 3311 Biomaterials

(A-F or Audit; Prereq: 2101, [BMEN Upper Div or dept consent]) 58305 001 LEC, 11:15-12:05 MWF, Mayo Bldg & Additions C231, In Person Term Based; Wei Shen; 3 cr. 58307 003 DIS, 11:15-12:05 Th, Amundson Hall 116, In Person Term Based; Wei Shen; 3 cr. 58306 002 DIS, 11:15-12:05 T, Amundson Hall 116, In Person Term Based; Wei Shen; 3 cr. 58308 004 DIS, 8:00- 8:50 W, Bruininks Hall 420B, In Person Term Based; Wei Shen; 3 cr.

### 3315 Biomaterials Lab

(A-F or Audit; Prereq: [2101, concurrent registration is required (or allowed) in 3311], [BMEN Upper Div or dept consent]) 58311 003 LAB, 12:20-14:15 Th, Moos Health Sci Tower 3-244, In Person Term Based; Wei Shen; 1 cr. 58309 001 LAB, 12:20-14:15 T, Moos Health Sci Tower 3-244, In Person Term Based; Wei Shen; 1 cr. 58312 004 LAB, 14:30-16:25 Th, Moos Health Sci Tower 3-244, In Person Term Based; Wei Shen; 1 cr. 58310 002 LAB, 14:30-16:25 T, Moos Health Sci Tower 3-244, In Person Term Based; Wei Shen; 1 cr.

### 3411 Biomedical Systems Analysis

(A-F or Audit; Prereq: 3211, [BME Upper Div or dept consent]) 58313 001 LEC, 9:05- 9:55 MWF, Bruininks Hall 312, In Person Term Based; Matthew Johnson; 3 cr. 58315 003 DIS, 15:35-16:25 Th, Amundson Hall 116, In Person Term Based; Matthew Johnson; 3 cr. 58316 004 DIS, 8:00- 8:50 Th, Bruininks Hall 432A, In Person Term Based; Matthew Johnson; 3 cr. 58314 002 DIS, 15:35-16:25 T, Bruininks Hall 530A, In Person Term Based; Matthew Johnson; 3 cr.

### 3415 Biomedical Systems Analysis Lab

(A-F or Audit; Prereq: [3211, concurrent registration is required (or allowed) in 3411], [BME Upper Div or dept consent]) 58319 003 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; Matthew Johnson; 1 cr. 58317 001 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; Matthew Johnson; 1 cr. 58320 004 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; Matthew Johnson; 1 cr. 58318 002 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Matthew Johnson; 1 cr.

### 4002W Biomedical Engineering Design II

(A-F or Audit; Prereq: 4001WWW) 53108 001 LEC, 15:35-16:25 W, Akerman Hall 209, In Person Term Based; Shai Ashkenazi; 3 cr. 50162 002 DIS, In Person Term Based; Shai Ashkenazi; 3 cr.

### 4710 Directed Research

(A-F or Audit; Prereq: instr consent, dept consent)  
49797 001 IND, In Person Term Based; Taner Akkin; 1-4 cr.

#### 4720 Directed Study

(A-F or Audit; Prereq: instr consent, dept consent)  
49798 001 IND, In Person Term Based; Taner Akkin; 1-4 cr.

#### 5101 Advanced Bioelectricity and Instrumentation

(Student Option; Prereq: [CSE upper div, grad student] or instr consent)

67402 881 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Alena Talkachova; 3 cr.  
67404 885 LEC, 9:45-11:00 TTh, Rochester Campus Room TBA, Primarily Online; Alena Talkachova; 3 cr.  
51498 001 LEC, 9:45-11:00 TTh, Mechanical Engineering 102, In Person Term Based; Alena Talkachova; 3 cr.  
67403 883 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Alena Talkachova; 3 cr.

#### 5111 Biomedical Ultrasound

(Student Option; Prereq: [[3401 or equiv], [MATH 2373 or equiv], [MATH 2374 or equiv], [CSE upper div or grad student]] or instr consent)

66417 001 LEC, 12:20-13:10 MWF, Bruininks Hall 119, In Person Term Based; Shai Ashkenazi; 3 cr.

#### 5151 Introduction to BioMEMS and Medical Microdevices

(A-F or Audit; Prereq: CSE sr or grad student or medical student)

54935 001 LEC, 15:35-17:30 Th, Molecular Cellular Biol 2-122, In Person Term Based; Steven Saliterman; 2 cr.

#### 5311 Advanced Biomedical Transport Processes

(Student Option; Prereq: CSE upper div or grad student or instr consent; [ChEn 5103 or ME 5342] recommended)

68291 883 LEC, 9:05-9:55 MWF, Room TBA, Primarily Online; 3 cr.  
68290 881 LEC, 9:05-9:55 MWF, Room TBA, Primarily Online; 3 cr.  
68292 885 LEC, 9:05-9:55 MWF, Rochester Campus Room TBA, Primarily Online; 3 cr.  
48764 001 LEC, 9:05-9:55 MWF, Keller Hall 3-115, In Person Term Based; Meets With: 001 CHEN 5753; Julie Prince; 3 cr.

#### 5413 Neural Decoding and Interfacing

(A-F or Audit; Prereq: 5411, [3201 or 3401 or equiv recommended])

57399 001 LEC, 9:45-11:00 MW, Bruininks Hall 512B, In Person Term Based; Hubert Lim; 3 cr.

#### 5421 Introduction to Biomedical Optics

(A-F or Audit; Prereq: CSE sr or grad student)

66418 001 LEC, 11:15-12:30 TTh, Bruininks Hall 117, In Person Term Based; Taner Akkin; 3 cr.

#### 5444 Muscle

(Student Option; )

51510 001 LEC, 16:00-17:15 TTh, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 5444001 BIOC 5444; Sarah Dittrich; 3 cr.

#### 5920 Special Topics in Biomedical Engineering

(Student Option; )

66420 001 LEC, 14:30-15:20 Th, Bruininks Hall 432A, In Person Term Based; Bruce Kenknight; 1-3 cr.

#### 8001 Polymeric Biomaterials

(A-F or Audit; Prereq: [5001, [CHEN 4214 or MATS 4214 or equiv]] or instr consent)

59961 001 LEC, 13:00-14:15 MW, Amundson Hall 104, In Person Term Based; Chun Wang; 3 cr.

#### 8041 Advanced Tissue Engineering Lab

(A-F or Audit; )

60997 001 LAB, 13:00-15:30 F, Moos Health Sci Tower 3-343, In Person Term Based; Brenda Ogle; 3 cr.

#### 8201 Advanced Tissue Mechanics

(A-F or Audit; Prereq: AEM 3031 or equiv)

55875 001 LEC, 9:45-11:00 TTh, Bruininks Hal 121, In Person Term Based; Patrick Alford; 3 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49095 001 IND, In Person Term Based; Rachel Jorgenson; 1 cr.

#### 8335 Neuroengineering Practicum

(A-F only; Prereq: PhD student in BME, EE, ME, or NSci or instr consent)

58331 001 LEC, 14:30-16:25 T, Rapson Hall 15, In Person Term Based; Bin He; 3 cr.

#### 8381 Bioheat and Mass Transfer

(Student Option; Prereq: CSE grad student, upper div transport/fluids course; [physics, biology] recommended)

57467 001 LEC, In Person Term Based; Robert Tranquillo; 3 cr.

#### 8402 New Product Design and Business Development

(A-F or Audit; Prereq: 8401)

48857 001 LEC, 17:00-20:20 W, Hanson Hall, Room 1-109, In Person Term Based; Meets With: 001 ME 8222060 ENTR 6042; Vicki Lund; 4 cr.

#### 8421 Biophotonics

(A-F or Audit; Prereq: Graduate students in physical sciences (engineering, physics, chemistry etc.), or graduate students with an undergraduate degree in the physical sciences or mathematics, or consent of instructor. In addition to previous course work in engineering and/or physics, a working understanding of microscopy is recommended. Although not required, concurrent or previous enrollment in BME 5421 (Biomedical Optics) is recommended.)

60998 001 LEC, 13:00-14:15 TTh, Bruininks Hall 119, In Person Term Based; Paolo Provenzano; 3 cr.

#### 8431 Controlled Drug and Gene Delivery: Materials, Mechanisms, and Models

(A-F or Audit; Prereq: Differential equations course including partial differential equations or instr consent)

59274 001 LEC, In Person Term Based; Meets With: 001 PHM 8431; Ronald Siegel; 4 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49195 001 IND, In Person Term Based; Rachel Jorgenson; 1 cr.

#### 8602 Biomedical Engineering Seminar

(S-N or Audit; )

48789 001 LEC, 15:35-16:40 MW, Nils Hasselmo Hall 2-101, In Person Term Based; Casim Sarkar; 1 cr.  
50999 881 LEC, 15:35-16:40 M, Room TBA, Primarily Online; Casim Sarkar; 1 cr.  
51474 883 LEC, 15:35-16:40 M, Room TBA, Primarily Online; Casim Sarkar; 1 cr.  
51000 885 LEC, 15:35-16:40 M, Rochester Campus Room TBA, Primarily Online; Casim Sarkar; 1 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49278 001 IND, In Person Term Based; Rachel Jorgenson; 1-6 cr.

#### 8710 Directed Research

(Student Option; )

48790 001 IND, In Person Term Based; Victor Barocas; 1-3 cr.

#### 8720 Internship in Biomedical Engineering

(S-N or Audit; Prereq: Grad BME major)

48791 001 FWK, In Person Term Based; Victor Barocas; 1-3 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49384 001 IND, In Person Term Based; Rachel Jorgenson; 1-18 cr.

#### 8820 Plan B Project

(Student Option; Prereq: BME MS student)

48859 001 IND, In Person Term Based; Victor Barocas; 2-3 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: PhD student in biomedical engineering; max 14 cr per semester or summer; 24 cr required)

49511 001 IND, In Person Term Based; Rachel Jorgenson; 1-24 cr.

#### 8900 Special Topics in Biomedical Engineering

(A-F or Audit; )

59055 001 LEC, 11:15-12:05 MWF, Bruininks Hall 119, In Person Term Based; Victor Barocas; 1-4 cr.

#### 8910 Independent Study

(Student Option; Prereq: Grad BME major)

48792 001 IND, In Person Term Based; Victor Barocas; 1-3 cr.

### Bioproducts and Biosystems Eng (BBE)

#### 1002 Biorenewable Resources

(A-F or Audit; TS)

52377 001 LEC, 13:30-14:45 TTh, Kaufert Laboratory 302, In Person Term Based; William Tai Yin Tze; 3 cr.

#### 2201 Renewable Energy and the Environment

(Student Option; TS)

56551 001 LEC, Completely Online; David Schmidt; 3 cr.

#### 3033 Material and Energy Balances in Biological Systems

(A-F or Audit; Prereq: [CHEM 1062 or equiv], [CHEM 1066, or equiv], [MATH 1372 or equiv], [PHYS 1302W or equiv])

54903 001 LEC, 12:50-14:05 MW, Haecker Hall 205, In Person Term Based; Bo Hu; 3 cr.

#### 3043 Biological and Environmental Thermodynamics

(A-F or Audit; Prereq: BIOL 1009, [CHEM 1061 or equiv], [CHEM 1065, or equiv], [MATH 1372 or equiv], [PHYS 1302 or equiv])

55709 001 LEC, 8:30-9:20 MWF, Kaufert Laboratory 302, In Person Term Based; Bruce Wilson; 3 cr.

#### 3093 Directed Studies

(Student Option; Prereq: instr consent)

47192 001 IND, In Person Term Based; Bruce Wilson; 1-5 cr.

#### 3201 Sustainability of Food Systems: A Life Cycle Perspective

(A-F only; GP)

58776 001 LEC, Completely Online; Jason Hill; 3 cr.

#### 3393 Directed Study

(Student Option; Prereq: instr consent)

46094 001 IND, In Person Term Based; Brett Barney; 1-3 cr.

#### 3396 Industry Assignment

(A-F or Audit; Prereq: BBE cooperative ed student, approval of departmental co-op coordinator)

46093 001 FWK, In Person Term Based; Brett Barney; 1 cr.

#### 4013 Transport in Biological Processes II

(A-F or Audit; Prereq: 3012, 3043, [upper div CSE or instr consent])

56706 002 DIS, 13:55-14:45 M, Biological Sciences Ctr 12, In Person Term Based; Mrinal Bhattacharya; 3 cr.  
53006 001 LEC, 12:50-13:40 MWF, Andrew Boss Laboratory 125, In Person Term Based; John Nieber; 3 cr.

#### 4302 Biodegradation of Bioproducts

(Student Option; Prereq: 1002 or instr consent)

52378 001 LEC, 11:45-13:00 T, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5302; Jonathan Schilling; 3 cr.

52379 002 LAB, 11:45-13:00 Th, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 BBE 5302; Jonathan Schilling; 3 cr.

#### 4303 Introduction to Bio-based Materials Science

(A-F or Audit; Prereq: 2001 or instr consent)

54905 001 LEC, 16:30-17:45 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5303; Steve Severtson; 3 cr.

#### 4305 Pulp and Paper Technology

(Student Option; Prereq: Junior or senior or instr consent)

57712 001 LEC, Completely Online; Ulrike Tschirner; 3 cr.

#### 4333 Off-road Vehicle Design



(A-F or Audit; Prereq: [[2001, 4303] or [AEM 2021, AEM 3031], [3012 or CEGE 3502 or concurrent registration is required (or allowed) in CEGE 3502], upper div CSE] or instr consent)  
55479 001 LEC, 18:00-21:20 T, Keller Hall 3-230, In Person Term Based; Meets With: 001 BBE 5333; Jonathan Chaplin; 4 cr.

#### 4402 Bio-based Products Engineering Lab I

(A-F or Audit; Prereq: 3033 and CHEM 2301, jr or sr or instr consent)

57065 002 LAB, 10:00-12:30 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 5402; Shri Ramaswamy; 1 cr.  
52380 001 LAB, 8:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 5402; Shri Ramaswamy; 1 cr.

#### 4412W Biocomposites and Biomass Energy

(Student Option; Prereq: 1002, upper div BPWI)  
52388 001 LEC, 9:35-11:30 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 BBE 5412; Robert Seavey; 4 cr.

#### 4413 Systems Approach to Residential Construction

(Student Option; Prereq: Upper div or instr consent)  
52381 001 LEC, 15:00-16:55 TTh, Green Hall 110, In Person Term Based; Meets With: 001 HSG 4413001 BBE 5413; 4 cr.

#### 4416 Building Testing and Diagnostics

(Student Option; Prereq: 4413)  
60359 001 LEC, 13:15-14:55 F, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5416; Robert Seavey; 2 cr.  
60360 002 LAB, 15:05-16:15 F, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 BBE 5416; Robert Seavey; 2 cr.

#### 4491 Senior Topics: Independent Study

(Student Option; Prereq: sr, instr consent)  
46095 001 IND, In Person Term Based; Brett Barney; 1-4 cr.

#### 4502W BBE Capstone Design

(A-F or Audit; Prereq: 2002, srWI)  
52382 001 LEC, 14:15-17:15 W, Biosystems & Ag Eng Bldg 106, In Person Term Based; Jonathan Chaplin; 4 cr.

#### 4523 Ecological Engineering Design

(A-F or Audit; Prereq: [CHEM 1022 or [CHEM 1062, CHEM 1066], 3012, upper div CSE] or instr consent)  
53500 001 LEC, 11:45-12:35 MWF, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 5523; Chris Lenhart; 3 cr.

#### 4533 Sustainable Waste Management Engineering

(A-F or Audit; Prereq: 3023, upper div CSE)  
53008 001 LEC, 13:15-14:05 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Chuck Clanton; 3 cr.  
53009 002 LAB, 11:30-13:00 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Chuck Clanton; 3 cr.

#### 4713 Biological Process Engineering

(A-F or Audit; Prereq: [3033, 4013 or concurrent registration is required (or allowed) in 4013], upper div CSE] or instr consent)  
53010 001 LEC, 11:45-12:35 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5713; Ping Wang; 3 cr.

#### 4723 Food Process Engineering

(A-F or Audit; Prereq: [[4013 or concurrent registration is required (or allowed) in 4013], upper div CSE] or instr consent)  
55663 001 LEC, 10:40-11:55 TTh, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 BBE 5723; R. Ruan; 3 cr.

#### 4733 Renewable Energy Technologies

(A-F or Audit; Prereq: Junior or seniorTS)  
53572 001 LEC, 15:00-16:15 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5733; R. Ruan; 3 cr.

#### 4801H Honors Research

(A-F or Audit; Prereq: BBE upper div honors, instr consent)  
52879 002 IND, In Person Term Based; Shri Ramaswamy; 2 cr.  
48340 001 IND, In Person Term Based; Shri Ramaswamy; 2 cr.

#### 4802H Honors Research

(A-F or Audit; Prereq: BBE upper div honors, instr consent)  
48342 001 IND, In Person Term Based; Shri Ramaswamy; 2 cr.  
52880 002 IND, In Person Term Based; Shri Ramaswamy; 2 cr.

#### 4900 Intern Reports

(S-N or Audit; Prereq: [CSE or CFANS] student in BBE, instr consent)  
46682 001 FWK, In Person Term Based; Mrinal Bhattacharya; 2 cr.

#### 5095 Special Problems

(Student Option; Prereq: instr consent)  
47193 001 IND, In Person Term Based; Mrinal Bhattacharya; 1-5 cr.

#### 5302 Biodegradation of Bioproducts

(Student Option; Prereq: Grad student or instr consent)  
52385 002 LAB, 11:45-13:00 Th, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 BBE 4302; Jonathan Schilling; 3 cr.  
52384 001 LEC, 11:45-13:00 T, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4302; Jonathan Schilling; 3 cr.

#### 5303 Introduction to Bio-based Materials Science

(Student Option; Prereq: Grad student or instr consent)  
54906 001 LEC, 16:30-17:45 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4303; Steve Severtson; 3 cr.

#### 5305 Pulp and Paper Technology

(Student Option; )  
57713 001 LEC, Completely Online; Ulrike Tschirner; 3 cr.

#### 5333 Off-road Vehicle Design

(A-F only; Prereq: [[2001, 4303] or [AEM 2021, AEM 3031], [3012 or concurrent registration is required (or allowed) in 3012 or CEGE 3502 or concurrent registration is required (or allowed) in CEGE 3502], upper div CSE] or instr consent)  
55478 001 LEC, 18:00-21:20 T, Keller Hall 3-230, In Person Term Based; Meets With: 001 BBE 4333; Jonathan Chaplin; 4 cr.

#### 5402 Bio-based Products Engineering Lab I

(A-F or Audit; )  
57066 002 LAB, 10:00-12:30 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 4402; Shri Ramaswamy; 1 cr.  
52509 001 LAB, 8:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 4402; Shri Ramaswamy; 1 cr.

#### 5412 Biocomposites and Biomass Energy

(Student Option; Prereq: Grad student or instr consent)  
52510 001 LEC, 9:35-11:30 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 BBE 4412W; Robert Seavey; 4 cr.

#### 5413 A Systems Approach to Residential Construction

(Student Option; Prereq: Grad student or instr consent)  
58781 001 LEC, 15:00-16:55 TTh, Green Hall 110, In Person Term Based; Meets With: 001 BBE 4413001 HSG 4413; 4 cr.

#### 5416 Building Testing & Diagnostics

(Student Option; Prereq: Grad student or instr consent)  
60361 001 LEC, 13:15-14:55 F, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4416; Robert Seavey; 2 cr.  
60362 002 LAB, 15:05-16:15 F, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 BBE 4416; Robert Seavey; 2 cr.

#### 5523 Ecological Engineering Design

(A-F only; Prereq: [[CHEM 1022 or CHEM 1062, CHEM 1066], BBE 3012, grad student] or instr consent)  
55578 001 LEC, 11:45-12:35 MWF, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 4523; Chris Lenhart; 3 cr.

#### 5713 Biological Process Engineering

(A-F only; Prereq: [3033, 4013 or concurrent registration is required (or allowed) in 4013], [upper div CSE or grad student] or instr consent)  
55861 001 LEC, 11:45-12:35 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4713; Ping Wang; 3 cr.

#### 5723 Food Process Engineering

(A-F or Audit; Prereq: [[4013 or concurrent registration is required (or allowed) in 4013], [upper div CSE or grad student] or instr consent)  
55846 001 LEC, 10:40-11:55 TTh, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 BBE 4723; R. Ruan; 3 cr.

#### 5733 Renewable Energy Technologies

(A-F or Audit; Prereq: Grad student or instr consent)  
55844 001 LEC, 15:00-16:15 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4733; R. Ruan; 3 cr.

#### 8002 Seminar II

(A-F only; Prereq: 8001 or concurrent registration is required (or allowed) in 8001 or equiv)  
53501 001 LEC, 13:55-15:55 M, Biosystems & Ag Eng Bldg 308, In Person Term Based; Simo Sarkanen; 1 cr.

#### 8094 Advanced Problems and Research

(Student Option; Prereq: 5095)  
50475 001 IND, In Person Term Based; John Nieber; 2-6 cr.

#### 8300 Research Problems

(Student Option; Prereq: instr consent)  
46096 002 IND, In Person Term Based; Brett Barney; 1-10 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49094 001 IND, In Person Term Based; Susan Olsen; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49193 001 IND, In Person Term Based; Susan Seltz; 1 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49276 001 IND, In Person Term Based; Susan Olsen; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49382 001 IND, In Person Term Based; Susan Seltz; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49510 001 IND, In Person Term Based; Susan Seltz; 1-24 cr.

### Business Administration (BA)

#### 999 Immersion Core

(A-F only; Prereq: Microecon, macroecon, calculus, accounting, statistics, Carlson School [soph or jr])  
54908 001 LEC, 8:15-9:30 MW, Hanson Hall, Room 1-102, 9:45-11:00 TTh, Hanson Hall, Room 1-104, 8:15-9:30 TTh, Hanson Hall, Room 1-104, 9:45-11:00 MW, Hanson Hall, Room 1-102, In Person Term Based; 12 cr.  
54910 002 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-102, 11:15-12:30 WF, Hanson Hall, Room 1-104, 9:45-11:00 WF, Hanson Hall, Room 1-104, 11:15-12:30 TTh, Hanson Hall, Room 1-102, In Person Term Based; 12 cr.  
54911 003 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-102, 14:30-15:45 TTh, Hanson Hall, Room 1-104, 13:00-14:15 TTh, Hanson Hall, Room 1-104, 14:30-15:45 MW, Hanson Hall, Room 1-102, In Person Term Based; 12 cr.  
58231 005 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-104, 14:30-15:45 TTh, Hanson Hall, Room 1-106, 13:00-14:15 TTh, Hanson Hall, Room 1-106, 14:30-15:45 MW, Hanson Hall, Room 1-104, In Person Term Based; 12 cr.  
54912 004 LEC, 8:15-9:30 MW, Hanson Hall, Room 1-106, 14:30-15:45 TTh, Hanson Hall, Room 1-102, 13:00-14:15 TTh, Hanson Hall, Room 1-102, 9:45-11:00 MW, Hanson Hall, Room 1-106, In Person Term Based; 12 cr.

#### 3000 Career Skills

(S-N only; Prereq: CSOM [soph or upper div] major, MACC, MBT)  
67140 007 LEC, 9:55-11:10 Th, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.  
67137 004 LEC, 9:55-11:10 T, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.  
67138 005 LEC, 13:45-15:00 W, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.

49720 001 LEC, 13:45-15:00 M, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.  
67139 006 LEC, 16:00-17:15 W, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.  
67136 003 LEC, 16:00-17:15 M, Carlson School of Mgmt L-126, In Person Term Based; Katie Selby; 1 cr.  
49721 002 LEC, 11:50-13:05 M, Carlson School of Mgmt L-122, In Person Term Based; Katie Selby; 1 cr.

### 3999 Internship Seminar

(S-N only; Prereq: Approved internship, instr consent)  
48685 001 IND, In Person Term Based; 1 cr.

### 4501 Carlson Funds Enterprise: Growth

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6501, CSOM [jr or sr], approved application)  
54256 001 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Timothy Nantell; 3 cr.

### 4502 Carlson Funds Enterprise: Fixed Income

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6502, CSOM [jr or sr], approved application)  
54257 001 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Rick Nelson; 3 cr.

### 4503 Carlson Ventures Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6503, CSOM [jr or sr], approved application)  
55435 002 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Allison Brimeyer; 2 cr.  
54258 001 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Tobin Nord; 2 cr.

### 4504 Carlson Consulting Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6504, CSOM [jr or sr], approved application)  
55049 001 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Sarah Gisser; 3 cr.

### 4505 Brand Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6505, CSOM [jr or sr], approved application)  
54259 001 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Tiffany Meeks; 3 cr.

### 4990H Honors Thesis Seminar I

(A-F only; Prereq: CSOM honors, 2nd sem jr)  
54804 001 LEC, 13:45-15:25 T, Carlson School of Mgmt L-114, In Person Term Based; 2 cr.

### 4991H Honors Thesis Seminar II

(A-F only; Prereq: 4990H, CSOM honors, sr)  
56845 001 LEC, 15:45-18:15 T, Carlson School of Mgmt 1-136, In Person Term Based; 2 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49192 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49275 001 IND, In Person Term Based; 1-6 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49509 001 IND, In Person Term Based; 1-24 cr.

## Business Law (BLAW)

### 3058 The Law of Contracts and Agency

(A-F or Audit; Prereq: 40 or more credits)  
48291 001 DIS, 8:00- 9:40 MW, Hanson Hall, Room 1-103, In Person Term Based; Deb Cross; 4 cr.  
48292 002 DIS, 10:10-11:50 MW, Hanson Hall, Room 1-103, In Person Term Based; Deb Cross; 4 cr.

## Carlson Executive MBA (CMBA)

### 5554 International Residency

(A-F only; )  
59255 001 LEC, In Person Term Based; Julie Kesterke; 1.5 cr.

### 5625 Entrepreneurship and Innovation

(A-F only; )  
59270 001 LEC, In Person Term Based; 3 cr.

### 5714 Advanced Marketing

(A-F only; )  
55531 001 LEC, In Person Term Based; Robyn Wick; 3 cr.

### 5715 Advanced Financial Management

(A-F only; )  
60602 001 LEC, In Person Term Based; Robyn Wick; 3 cr.

### 5721 Advanced Management Topics

(A-F only; )  
57370 002 LEC, In Person Term Based; 1.5 cr.  
55333 001 LEC, In Person Term Based; Robyn Wick; 1.5 cr.

### 5724 International Residency

(A-F only; )  
55334 001 LEC, In Person Term Based; Robyn Wick; 1.5 cr.

### 5815 Marketing Management

(A-F only; )  
54766 001 LEC, In Person Term Based; Robyn Wick; 3 cr.

### 5816 Strategic Management

(A-F only; )  
54767 001 LEC, In Person Term Based; Julie Kesterke; 3 cr.

### 5817 Financial Management

(A-F only; )  
54765 001 LEC, In Person Term Based; Robyn Wick; 3 cr.

### 5830 Advanced Management Topic Elective

(A-F only; )  
68812 001 LEC, In Person Term Based; Vldas Griskevicius; 1.5 cr.

### 5831 Advanced Management Topic Elective

(A-F only; )  
68813 001 LEC, In Person Term Based; Daniel Forbes; 0 cr.

### 5832 Advanced Management Topic Elective

(A-F only; )  
68814 001 LEC, In Person Term Based; Ravi Bapna; 1.5 cr.

### 5833 Advanced Management Topics

Elective  
(A-F only; )  
68815 001 LEC, In Person Term Based; Rahul Koranne; 1.5 cr.

## Carlson School of Management (CSOM)

### 8101 Methods and Topics in Applied

Economics  
(Student Option; )  
59727 001 LEC, 13:30-16:30 T, Room TBA, In Person Term Based; Joel Waldfogel; 2-4 cr.

## Chemical Engineering (CHEN)

### 3006 Mass Transport and Separation

Processes  
(A-F only; Prereq: [2001 or 4001], [3005 or 4005], [3101 or 4101], [upper div ChEn major or dept consent], C- or better in all pre-reqs)  
52399 001 LEC, 11:15-12:05 MWF, Amundson Hall B75, In Person Term Based; Benjamin Hackel; 4 cr.  
52401 003 DIS, 10:10-11:00 TTh, Room TBA, In Person Term Based; Benjamin Hackel; 4 cr.  
56821 006 DIS, 8:00- 8:50 TTh, Amundson Hall 120, In Person Term Based; Benjamin Hackel; 4 cr.  
52400 002 DIS, 9:05- 9:55 TTh, Amundson Hall 120, In Person Term Based; Benjamin Hackel; 4 cr.  
52402 004 DIS, 12:20-13:10 TTh, Amundson Hall 120, In Person Term Based; Benjamin Hackel; 4 cr.  
56822 007 DIS, 15:35-16:25 TTh, Amundson Hall 120, In Person Term Based; Benjamin Hackel; 4 cr.  
52403 005 DIS, 14:30-15:20 TTh, Amundson Hall 158, In Person Term Based; Benjamin Hackel; 4 cr.

### 3041 Industrial Assignment I

(A-F only; Prereq: ChEn upper Div, completion of required courses in ChEn prog through fall sem of 3rd yr, GPA of at least 2.80, registered in co-op prog)  
53278 001 FWK, In Person Term Based; Lorraine Francis; 2 cr.

### 3102 Reaction Kinetics and Reactor Engineering

(A-F only; Prereq: [2001 or 4001], [3101 or 4101], [upper div ChEn major or dept consent], C- or better in all pre-reqs)  
47507 004 DIS, 10:10-11:00 TTh, Amundson Hall 116, In Person Term Based; Efie Kokkoli; 4 cr.  
51253 008 DIS, 15:35-16:25 TTh, Amundson Hall 158, In Person Term Based; Efie Kokkoli; 4 cr.  
47508 005 DIS, 11:15-12:05 TTh, Amundson Hall 162, In Person Term Based; Efie Kokkoli; 4 cr.  
47506 001 LEC, 9:05- 9:55 MWF, Amundson Hall B75, In Person Term Based; Michael Tsapatsis; 4 cr.  
52394 009 DIS, 16:40-17:30 TTh, Amundson Hall 158, In Person Term Based; Michael Tsapatsis; 4 cr.  
56823 002 DIS, 8:00- 8:50 TTh, Amundson Hall 116, In Person Term Based; Paul Dauenhauer; 4 cr.

### 3201 Numerical methods in ChEn applications

(A-F only; Prereq: [2001 or 4001], [3005 or 4005], [3006 or 4006 or concurrent registration is required (or allowed) in 3006 or concurrent registration is required (or allowed) in 4006], [upper div ChEn major or dept consent], C- or better in all pre-reqs)  
56824 003 DIS, 9:05- 9:55 T, Amundson Hall 158, In Person Term Based; Matthew Neurock; 3 cr.  
52790 007 DIS, 15:35-16:25 T, Amundson Hall 116, In Person Term Based; Satish Kumar; 3 cr.  
52398 006 DIS, 12:20-13:10 T, Amundson Hall 158, In Person Term Based; Matthew Neurock; 3 cr.  
52395 001 LEC, 10:10-11:00 MWF, Amundson Hall B75, In Person Term Based; Satish Kumar; 3 cr.  
52396 004 DIS, 10:10-11:00 T, Amundson Hall 158, In Person Term Based; Satish Kumar; 3 cr.  
52397 005 DIS, 11:15-12:05 T, Amundson Hall 158, In Person Term Based; Satish Kumar; 3 cr.

### 3401W Junior Chemical Engineering Lab

(A-F only; Prereq: Writ 1301 or eq., Chem 2121, 2311, ChEn 2001, 3005, 3101, and [pre-req or concurrent registration in 3201, 3102 3006]; upper div ChEn majorWI)  
56593 017 LAB, 8:00-12:00 Th, No Room Required, 8:00-12:00 T, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
56592 016 LAB, 13:25-17:25 M, Ford Hall 155, 13:25-17:25 F, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
56591 015 LAB, 13:25-17:25 T, Molecular Cellular Biol 2-122, 13:25-17:25 Th, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
56589 013 LAB, 13:25-17:25 F, Amundson Hall 158, 13:25-17:25 W, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
56588 012 LAB, 13:25-17:25 Th, No Room Required, 13:25-17:25 T, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
56587 011 LAB, 13:25-17:25 W, Ford Hall 155, 13:25-17:25 M, Amundson Hall 350B, In Person Term Based; Laura Ericksen; 2 cr.  
55622 007 LAB, 8:00- 8:50 T, Amundson Hall 104, 8:00-12:00 Th, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55626 003 LAB, 8:00- 8:50 Th, Amundson Hall 104, 8:00-12:00 T, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55624 009 LAB, 13:25-17:25 M, Amundson Hall 116, 13:25-17:25 F, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55623 008 LAB, 13:25-17:25 T, No Room Required, 13:25-17:25 Th, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55621 005 LAB, 13:25-17:25 F, Amundson Hall 162, 13:25-17:25 W, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55620 004 LAB, 13:25-17:25 Th, No Room Required, 13:25-17:25 T, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
55619 002 LAB, 13:25-17:25 W, Amundson Hall 116, 13:25-17:25 M, Amundson Hall 350, In Person Term Based; Raul Caretta; 2 cr.  
56590 014 LAB, 8:00-12:00 T, No Room Required, 8:00-12:00 Th, Amundson Hall 350B, In Person Term Based; Satish Kumar; 2 cr.  
55613 001 LEC, 8:00- 8:50 MWF, Amundson Hall B75, In Person Term Based; Laura Ericksen; 2 cr.

### 4214 Polymers

(A-F or Audit; Prereq: [[MATS 3011, [3101 or 4101 or MATS 4001], [upper div Mats or ChEn]]] or instr consent)  
54507 001 LEC, 11:15-12:05 MWF, Bruininks Hall 230, In Person Term Based; Meets With: 001 MATS 4214001 CHEM 4214; Xiang Cheng; 3 cr.

#### 4223W Polymer Laboratory

(Student Option; Prereq: 4214 or CHEM 4214 or CHEM 4221 or MATS 4214 or instr consentWI)  
55062 001 LEC, 15:35-16:25 M, Smith Hall 100, In Person Term Based; Meets With: 001 CHEM 4223W001 MATS 4223W; Theresa Reineke; 2 cr.  
55063 002 LAB, 8:00-11:50 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 002 CHEM 4223W002 MATS 4223W; Theresa Reineke; 2 cr.  
55064 003 LAB, 8:00-11:50 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 003 CHEM 4223W003 MATS 4223W; Theresa Reineke; 2 cr.

#### 4502W Chemical Engineering Design II

(A-F or Audit; Prereq: 4401W, 4501W, [upper div ChEn major or dept consent], [C- or better in all pre-reqs]W)  
55632 006 DIS, 14:30-15:20 TTh, Amundson Hall 156, In Person Term Based; Alon McCormick; 2 cr.  
53922 007 DIS, 15:35-16:25 TTh, Amundson Hall 156, In Person Term Based; Alon McCormick; 2 cr.  
53317 003 DIS, 9:05-9:55 TTh, Amundson Hall 162, In Person Term Based; Laura Erickson; 2 cr.  
48354 005 DIS, 9:05-9:55 TTh, Amundson Hall 156, In Person Term Based; Julie Prince; 2 cr.  
48352 002 DIS, 8:00-8:50 TTh, Amundson Hall 158, In Person Term Based; Julie Prince; 2 cr.  
48353 004 DIS, 10:10-11:00 TTh, Ford Hall 155, In Person Term Based; Julie Prince; 2 cr.  
48351 001 LEC, 13:25-14:15 MWF, Amundson Hall B75, In Person Term Based; Julie Prince; 2 cr.

#### 4593 Directed study

(Student Option No Audit; Prereq: ChEn major upper division, instr consent)  
49718 001 IND, In Person Term Based; Satish Kumar; 1-4 cr.

#### 4594 Directed Research

(Student Option No Audit; Prereq: Upper div ChEn)  
49719 001 IND, In Person Term Based; Satish Kumar; 1-4 cr.

#### 4707 Advanced Undergraduate Statistical Thermodynamics and Kinetics

(A-F only; Prereq: ChEn 3005 or 4005, 3101 or 4101, CHEM 3501, CHEM 3502, ChEn major upper div)  
68493 001 LEC, 11:15-12:05 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 CHEN 8402; Yiannis Kaznessis; 3 cr.

#### 4708 Advanced Undergraduate Chemical Rate Processes: Analysis of Chemical Reactors

(A-F only; Prereq: [3102 or 4102], ChEn major upper div)  
68495 001 LEC, 9:05-9:55 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 CHEN 8501; Aditya Bhan; 3 cr.

#### 5531 Electrochemical Engineering and Renewable Energy

(A-F only; Prereq: [MATS 3011 or instr consent], [upper div CSE or grad student])  
55576 001 LEC, 14:30-15:20 MWF, Amundson Hall 104, In Person Term Based; Meets With: 001 MATS 5531; William Smyrl; 3 cr.

#### 5753 Biological Transport Processes

(A-F or Audit; Prereq: 3005 or 4005 or equiv)  
51195 001 LEC, 9:05-9:55 MWF, Keller Hall 3-115, In Person Term Based; Meets With: 001 BMEN 5311; Julie Prince; 3-4 cr.

#### 8101 Fluid Mechanics I: Change, Deformation, Equations of Flow

(A-F or Audit; Prereq: Chemical engineering grad student or instr consent)  
56612 001 LEC, 10:10-11:00 MWF, Amundson Hall 116, In Person Term Based; Satish Kumar; 3 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49101 001 IND, In Person Term Based; Yiannis Kaznessis; 1 cr.

#### 8402 Statistical Thermodynamics and Kinetics

(A-F or Audit; Prereq: Chemical engineering grad student or instr consent)  
68492 001 LEC, 11:15-12:05 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 CHEN 4707; Yiannis Kaznessis; 3 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49201 001 IND, In Person Term Based; Yiannis Kaznessis; 1 cr.

#### 8501 Chemical Rate Processes: Analysis of Chemical Reactors

(A-F or Audit; Prereq: [Course in chemical reactor engineering, chemical engineering grad student] or instr consent)  
68494 001 LEC, 9:05-9:55 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 CHEN 4708; Aditya Bhan; 3 cr.

#### 8555 Chemical Engineering Teaching Practicum

(S-N only; Prereq: Grad ChEn major and DGS permission)  
68499 001 FWK, In Person Term Based; Yiannis Kaznessis; 1-6 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49290 001 IND, In Person Term Based; Julie Prince; 1-6 cr.

#### 8754 Systems Analysis of Biological Processes

(Student Option; Prereq: Grad student in [life sciences or chemical/physical sciences or engineering]; ChEn students must take A/F)  
59159 001 LEC, 14:30-15:45 TTh, Amundson Hall 104, In Person Term Based; Wei-Shou Hu; 3 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49390 001 IND, In Person Term Based; Yiannis Kaznessis; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49516 001 IND, In Person Term Based; Julie Prince; 1-24 cr.

#### 8901 Seminar

(S-N only; )  
48140 001 LEC, 13:25-15:20 TTh, Amundson Hall B75, In Person Term Based; Yiannis Kaznessis; 1 cr.

#### 8993 Directed Study

(Student Option; )  
48457 001 LEC, In Person Term Based; Yiannis Kaznessis; 1-12 cr.

#### 8994 Directed Research

(Student Option; )  
48458 001 LEC, In Person Term Based; Yiannis Kaznessis; 1-12 cr.

### Chemical Physics (CHPH)

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49102 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49202 001 IND, In Person Term Based; 1 cr.

#### 8601 Seminar: Modern Problems in Chemical Physics

(S-N only; Prereq: Grad chem physics major or instr consent)  
55124 001 LEC, In Person Term Based; Aaron Massari; 1 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for

1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49291 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49391 001 IND, In Person Term Based; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49313 001 IND, In Person Term Based; 1-24 cr.

### Chemistry (CHEM)

#### 1015 Introductory Chemistry: Lecture

(Student Option; PHYS)  
68462 003 LEC, 13:25-14:15 F, Bruininks Hall 114, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, Partially Online; Emily Pelton; 3 cr.  
68461 002 LEC, 13:25-14:15 W, Bruininks Hall 114, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, Partially Online; Emily Pelton; 3 cr.  
53037 001 LEC, 13:25-14:15 M, Bruininks Hall 114, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, 18:00-19:00 M, Room TBA, Partially Online; Emily Pelton; 3 cr.

#### 1017 Introductory Chemistry: Laboratory

(A-F only; Prereq: [1015 or concurrent registration is required (or allowed) in 1015], dept consent; credit will not be granted if credit received for: 1011; CHEM 1017 is a 1-credit lab-only course. This course is not intended for students who are planning to take CHEM 1061/1065. Intended only for students who need the course to fulfill the Physical Science/Lab requirement, and are taking CHEM 1015 either concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement, unless CHEM 1015 is completed either concurrently or consecutively.; meets Lib Ed req of Physical Sciences)PHYS)  
53041 006 LAB, 13:25-16:10 Th, Smith Hall 249, In Person Term Based; Michelle Driessen; 1 cr.  
53040 003 LAB, 13:25-16:10 Th, Smith Hall 249, In Person Term Based; Michelle Driessen; 1 cr.  
53039 002 LAB, 14:30-17:20 W, Smith Hall 249, In Person Term Based; Michelle Driessen; 1 cr.  
53038 001 LAB, 11:15-14:05 W, Smith Hall 249, In Person Term Based; Michelle Driessen; 1 cr.

#### 1061 Chemical Principles I

(Student Option; Prereq: Grade of at least C- in [1011 or 1015] or [passing placement exam, concurrent registration is required (or allowed) in 1065]; intended for science or engineering majors; concurrent registration is required (or allowed) in 1065; registration for 1065 must precede registration for 1061 PHYS)  
57896 001 LEC, 8:00-8:50 MWF, Smith Hall 100, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, In Person Term Based; Debra Salmon; 3 cr.  
57897 002 LEC, 12:20-13:10 MWF, Smith Hall 100, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, In Person Term Based; Debra Salmon; 3 cr.  
57898 003 LEC, 14:30-15:20 MWF, Bruininks Hall 220, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, In Person Term Based; Emily Pelton; 3 cr.  
68236 004 LEC, 9:45-11:00 TTh, Bruininks Hall 230, In Person Term Based; Emily Pelton; 3 cr.

#### 1062 Chemical Principles II

(Student Option; Prereq: Grade of at least C- in 1061 or equiv, concurrent registration is required (or allowed) in 1066; registration for 1066 must precede registration for 1062PHYS)  
57858 003 LEC, 18:00-21:00 T, Smith Hall 100, In Person Term Based; Doreen Leopold; 3 cr.  
57856 001 LEC, 10:10-11:00 MWF, Bruininks Hall 230, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, In Person Term Based; Kenneth Leopold; 3 cr.  
57859 004 LEC, 9:45-11:00 T, Bruininks Hall 114, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, Partially Online; Michelle Driessen; 3 cr.

57857 002 LEC, 13:25-14:15 MWF, Smith Hall 100, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, In Person Term Based; Valerie Pierre; 3 cr.  
 59311 006 LEC, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, Partially Online; Michelle Driessen; 3 cr.  
 58620 005 LEC, 9:45-11:00 Th, Bruininks Hall 114, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, 21:00-22:00 W, Room TBA, Partially Online; Michelle Driessen; 3 cr.

### 1065 Chemical Principles I Laboratory

**(A-F only; Prereq: concurrent registration is required (or allowed) in 1061PHYS)**

57874 015 LAB, In Person Term Based; 1 cr.  
 57860 001 LAB, 8:00-10:50 M, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57871 012 LAB, 8:00-10:50 F, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57868 009 LAB, 8:00-10:50 Th, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57866 007 LAB, 8:00-10:50 W, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57863 004 LAB, 8:00-10:50 T, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57872 013 LAB, 11:15-14:05 F, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57869 010 LAB, 11:15-14:05 Th, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57867 008 LAB, 11:15-14:05 W, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57864 005 LAB, 11:15-14:05 T, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57861 002 LAB, 11:15-14:05 M, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57873 014 LAB, 14:30-17:20 F, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57870 011 LAB, 14:30-17:20 Th, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57865 006 LAB, 14:30-17:20 T, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.  
 57862 003 LAB, 14:30-17:20 M, Smith Hall 110, In Person Term Based; Michelle Driessen; 1 cr.

### 1066 Chemical Principles II Laboratory

**(A-F only; Prereq: concurrent registration is required (or allowed) in 1062PHYS)**

57890 016 LAB, In Person Term Based; Michelle Driessen; 1 cr.  
 57875 001 LAB, 8:00-10:50 M, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57886 012 LAB, 8:00-10:50 F, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57883 009 LAB, 8:00-10:50 Th, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57881 007 LAB, 8:00-10:50 W, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57878 004 LAB, 8:00-10:50 T, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57887 013 LAB, 11:15-14:05 F, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57884 010 LAB, 11:15-14:05 Th, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57882 008 LAB, 11:15-14:05 W, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57879 005 LAB, 11:15-14:05 T, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57876 002 LAB, 11:15-14:05 M, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57888 014 LAB, 14:30-17:20 F, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57885 011 LAB, 14:30-17:20 Th, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57880 006 LAB, 14:30-17:20 T, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57877 003 LAB, 14:30-17:20 M, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.  
 57889 015 LAB, 18:00-20:50 Th, Smith Hall 210, In Person Term Based; Michelle Driessen; 1 cr.

### 1072H Honors Chemistry II

**(A-F only; Prereq: 1071H, concurrent registration is required (or allowed) in 1076H, honors student, registration for 1076H must precede registration for 1072HPPHYS)**

57891 001 LEC, 9:05-9:55 MWF, Bruininks Hall 230, In Person Term Based; Andreas Stein; 3 cr.

### 1076H Honors Chemistry II Laboratory

**(A-F only; Prereq: concurrent registration is required (or allowed) in 1072H, honors studentPHYS)**

57895 004 LAB, 13:25-16:10 Th, Smith Hall 249A, In Person Term Based; Michelle Driessen; 1 cr.  
 57894 003 LAB, 13:25-16:10 W, Smith Hall 249A, In Person Term Based; Michelle Driessen; 1 cr.

57893 002 LAB, 13:25-16:10 T, Smith Hall 249A, In Person Term Based; Michelle Driessen; 1 cr.  
 57892 001 LAB, 13:25-16:10 M, Smith Hall 249A, In Person Term Based; Michelle Driessen; 1 cr.

### 1905 Freshman Seminar

**(A-F or Audit; Prereq: freshman)**  
 60231 002 LEC, 14:30-16:10 F, Smith Hall 111, In Person Term Based; George Barany; 1-3 cr.  
 55533 001 LEC, 14:30-16:10 W, Bruininks Hall 512A, In Person Term Based; Michael Bowser; 1-3 cr.

### 2094 Directed Research

**(Student Option; Prereq: instr consent)**  
 47253 001 IND, In Person Term Based; Stephanie Stathopoulos; 1-3 cr.

### 2121 Process Analytical Chemistry

**(A-F or Audit; Prereq: [2302 or concurrent registration is required (or allowed) in 2302], [4501 or concurrent registration is required (or allowed) in 4501], CSE student)**

46475 001 LEC, 12:20-13:10 MWF, Bruininks Hall 230, In Person Term Based; Nicholas Frost; 3 cr.  
 55107 009 LAB, 8:00-11:50 Th, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 46476 002 LAB, 8:00-11:50 T, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 55106 007 LAB, 13:25-17:15 Th, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 55105 005 LAB, 13:25-17:15 T, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 51657 008 LAB, 8:00-11:50 Th, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 55104 003 LAB, 8:00-11:50 T, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 46478 006 LAB, 13:25-17:15 Th, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.  
 46477 004 LAB, 13:25-17:15 T, Smith Hall 310, In Person Term Based; Nicholas Frost; 3 cr.

### 2301 Organic Chemistry I

**(Student Option; Prereq: C- or better in 1062/1066 or 1072H/1076H or equiv or B or better in 1071H/1075H, 1072H/1076H)**

46460 002 LEC, 10:10-11:00 MWF, Bruininks Hall 220, In Person Term Based; Angela Perkins; 3 cr.  
 53515 003 LEC, 13:25-14:15 MWF, Bruininks Hall 220, In Person Term Based; Angela Perkins; 3 cr.  
 46459 001 LEC, 9:05-9:55 MWF, Bruininks Hall 220, In Person Term Based; William Pomerantz; 3 cr.

### 2302 Organic Chemistry II

**(Student Option; Prereq: Grade of at least C- in 2301)**

58777 003 LEC, 18:00-21:00 W, Smith Hall 100, In Person Term Based; Christopher Douglas; 3 cr.  
 46461 001 LEC, 9:05-9:55 MWF, Smith Hall 100, In Person Term Based; T. Taton; 3 cr.  
 46462 002 LEC, 10:10-11:00 MWF, Smith Hall 100, In Person Term Based; T. Taton; 3 cr.

### 2304 Organic Chemistry II for the Life Sciences

**(Student Option; Prereq: Grade of at least C- in 2301; designed for life sciences majors)**

57920 001 LEC, 9:45-11:00 TTh, Smith Hall 100, In Person Term Based; William Pomerantz; 3 cr.

### 2311 Organic Lab

**(Student Option; Prereq: Grade of at least C- in [2302, 2304] or [concurrent registration is required (or allowed) in 2302, concurrent registration is required (or allowed) in 2304])**

46469 002 LEC, 12:20-13:10 T, Smith Hall 100, In Person Term Based; Jane Wissinger; 4 cr.  
 46470 003 LEC, 16:55-17:45 T, Bruininks Hall 230, In Person Term Based; Jane Wissinger; 4 cr.  
 46468 001 LEC, 11:15-12:05 T, Molecular Cellular Biol 3-120, In Person Term Based; Jane Wissinger; 4 cr.  
 46471 004 LAB, 8:00-11:50 MW, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.  
 59514 009 LAB, 18:00-21:50 MW, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.  
 53521 008 LAB, 18:00-21:50 TTh, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.  
 46472 005 LAB, 8:00-11:50 TTh, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.  
 46473 007 LAB, 12:20-16:10 TTh, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.  
 55868 006 LAB, 12:20-16:10 MW, Smith Hall 349, In Person Term Based; Jane Wissinger; 4 cr.

### 2332H Honors Elementary Organic Chemistry II

**(A-F only; Prereq: At least C- in 2331H, UHP student)**  
 57921 001 LEC, 9:05-9:55 MWF, Smith Hall 231, In Person Term Based; Christopher Douglas; 3 cr.

### 2920 Special Topics In Chemistry

**(S-N or Audit; Prereq: 1 sem 1xxx chemistry or instr consent)**

46458 001 LEC, 12:20-13:10 Th, Smith Hall 331, In Person Term Based; Meets With: 001 CHEM 2920H; Stephanie Stathopoulos; 1 cr.

### 2920H Special Topics In Chemistry

**(S-N or Audit; )**

55749 001 LEC, 12:20-13:10 Th, Smith Hall 331, In Person Term Based; Meets With: 001 CHEM 2920; Stephanie Stathopoulos; 1 cr.

### 4021 Computational Chemistry

**(Student Option; Prereq: [4502 or equiv], instr consent)**

46692 001 LEC, 9:05-9:55 MWF, Smith Hall 331, In Person Term Based; Meets With: 001 CHEM 8021; Jiali Gao; 3 cr.

### 4066 Chemistry of Industry

**(Student Option; Prereq: Chem sr or grad student or instr consent)**

53123 001 LEC, 16:00-17:15 TTh, Bruininks Hall 432A, In Person Term Based; Timothy Kapsner; 3 cr.

### 4094V Directed Research

**(Student Option; WI)**

55745 001 IND, In Person Term Based; Stephanie Stathopoulos; 1-5 cr.

### 4094W Directed Research

**(Student Option; Prereq: Any 3xxx or 4xxx chem course, instr consentWI)**

47254 001 IND, In Person Term Based; Stephanie Stathopoulos; 1-5 cr.

### 4111W Modern Instrumental Methods of Chemical Analysis Lab

**(A-F or Audit; Prereq: 4101, chemistry majorWI)**

46481 003 LEC, 11:15-12:05 Th, Smith Hall 121, In Person Term Based; Edgar Arriaga; 2 cr.  
 46479 001 LEC, 11:15-12:05 T, Smith Hall 121, In Person Term Based; Edgar Arriaga; 2 cr.  
 46482 004 LAB, 12:20-16:10 Th, Smith Hall 310, In Person Term Based; Edgar Arriaga; 2 cr.  
 46480 002 LAB, 12:20-16:10 T, Smith Hall 310, In Person Term Based; Edgar Arriaga; 2 cr.

### 4214 Polymers

**(A-F or Audit; Prereq: [MATS 3011, [CHEN 3101 or CHEN 4101 or MATS 4001], [upper div MatS or ChEn or CHEM]] or instr consent)**

54829 001 LEC, 11:15-12:05 MWF, Bruininks Hall 230, In Person Term Based; Meets With: 001 MATS 4214001 CHEN 4214; Xiang Cheng; 3 cr.

### 4223W Polymer Laboratory

**(Student Option; Prereq: 4221 or 4214 or CHEN 4214 or MATS 4214 or instr consentWI)**

48810 001 LEC, 15:35-16:25 M, Smith Hall 100, In Person Term Based; Meets With: 001 MATS 4223W001 CHEN 4223W; Theresa Reineke; 2 cr.  
 46694 003 LAB, 8:00-11:50 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 003 MATS 4223W003 CHEN 4223W; Theresa Reineke; 2 cr.  
 46693 002 LAB, 8:00-11:50 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 002 MATS 4223W002 CHEN 4223W; Theresa Reineke; 2 cr.

### 4311W Advanced Organic Chemistry Lab

**(Student Option; Prereq: 2311WI)**

46483 001 LEC, 12:20-13:10 T, Smith Hall 331, In Person Term Based; George Barany; 4 cr.  
 51336 002 LAB, 12:20-17:20 MW, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 53844 003 LAB, 12:20-17:20 Th, ADCS Computer Lab TBA, 13:25-18:25 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.

### 4322 Advanced Organic Chemistry

**(Student Option; Prereq: [2302 or equiv], 4501, instr consent)**

46696 001 LEC, 11:15-12:05 MWF, Bruininks Hall 117, In Person Term Based; Meets With: 001 CHEM 8322; Wayland Noland; 3 cr.

### 4352 Physical Organic Chemistry

**(Student Option; Prereq: 4501, [4011 or 8011])**

46698 001 LEC, 10:10-11:00 MWF, Smith Hall 121, In Person Term Based; Meets With: 001 CHEM 8352; Steven Kass; 3 cr.

**4412 Chemical Biology of Enzymes**

(Student Option; Prereq: [2302 or equiv], 4501)  
55438 001 LEC, 11:15-12:30 MW, Smith Hall 121, In Person  
Term Based; Meets With: 001 CHEM 8412; Lawrence Que; 3 cr.

**4423W Foundations of Chemical Biology Laboratory**

(Student Option; Prereq: [2302 or 2304], 2311, 2111WI)  
67753 001 LEC, 13:25-14:15 F, Smith Hall 331, In Person  
Term Based; Erin Carlson; 2 cr.  
67756 004 LAB, 8:00-11:50 Th, Kolthoff Hall 494, In Person  
Term Based; Erin Carlson; 2 cr.  
67754 002 LAB, 8:00-11:50 T, Kolthoff Hall 494, In Person  
Term Based; Erin Carlson; 2 cr.  
67757 005 LAB, 12:20-16:10 Th, Kolthoff Hall 494, In Person  
Term Based; Erin Carlson; 2 cr.  
67755 003 LAB, 12:20-16:10 T, Kolthoff Hall 494, In Person  
Term Based; Erin Carlson; 2 cr.

**4501 Introduction to Thermodynamics, Kinetics, and Statistical Mechanics**

(A-F or Audit; Prereq: [1062/1066 or 1071H/1075H], [MATH 2263 or concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or concurrent registration is required (or allowed) in MATH 2374], [PHYS 1302 or PHYS 1402V or PHYS 1502V])  
53514 001 LEC, 11:15-12:05 MWF, Bruininks Hall 220, In Person  
Term Based; Jiali Gao; 3 cr.

**4502 Introduction to Quantum Mechanics and Spectroscopy**

(A-F or Audit; Prereq: [1062/1066 or 1072H/1076H], [MATH 2263 or concurrent registration is required (or allowed) in MATH 2263 or MATH 2374 or concurrent registration is required (or allowed) in MATH 2374 or MATH 2243 or concurrent registration is required (or allowed) in MATH 2243 or MATH 2373 or concurrent registration is required (or allowed) in MATH 2373], [PHYS 1302 or PHYS 1402V or PHYS 1502V])  
60261 002 LEC, 9:05-9:55 MWF, Mayo Bldg & Additions C231, In Person Term Based; James Johns; 3 cr.  
48745 001 LEC, 10:10-11:00 MWF, Smith Hall 331, In Person  
Term Based; Renee Frontiera; 3 cr.

**4601 Green Chemistry**

(Student Option; Prereq: [2302, 4501] or equivENV)  
56467 001 LEC, 14:30-15:45 MW, Bruininks Hall 432A, In Person  
Term Based; Jane Wissinger; 3 cr.

**4701 Inorganic Chemistry**

(Student Option; Prereq: [2311 or concurrent registration is required (or allowed) in 2311], [4501 or concurrent registration is required (or allowed) in 4501 or 4502 or concurrent registration is required (or allowed) in 4502])  
55505 001 LEC, 12:20-13:10 MWF, Bruininks Hall 220, In Person  
Term Based; Wayne Gladfelder; 3 cr.

**4711W Advanced Inorganic Chemistry Lab**

(A-F or Audit; Prereq: 4701, chem majorWI)  
46484 001 LEC, 11:15-12:05 TTh, Smith Hall 331, In Person  
Term Based; Connie Lu; 3 cr.  
60233 004 LAB, 12:20-16:10 WF, Kolthoff Hall 491, In Person  
Term Based; Connie Lu; 3 cr.  
60235 005 LAB, 12:20-16:10 MF, Kolthoff Hall 491, In Person  
Term Based; Connie Lu; 3 cr.  
60232 003 LAB, 12:20-16:10 MW, Kolthoff Hall 491, In Person  
Term Based; Connie Lu; 3 cr.  
48744 002 LAB, 12:20-16:10 TTh, Kolthoff Hall 491, In Person  
Term Based; Connie Lu; 3 cr.

**4725 Organometallic Chemistry**

(Student Option; Prereq: 4701 or equiv, chem major or instr consent)  
60333 001 LEC, 11:15-12:30 TTh, Smith Hall 111, In Person  
Term Based; Meets With: 001 CHEM 8725; Ian Tonks; 3 cr.

**4745 Advanced Inorganic Chemistry**

(Student Option; Prereq: 4701, chem major, instr consent)  
68246 001 LEC, 14:30-16:25 TTh, Smith Hall 121, In Person  
Term Based; Meets With: 001 CHEM 8745; John Ellis; 3 cr.

**5210 Materials Characterization**

(Student Option; Prereq: grad student or instr consent)  
48746 001 LEC, 13:25-15:20 MW, Amundson Hall 124, In Person  
Term Based; Lee Penn; 4 cr.

**5755 X-Ray Crystallography**

(A-F or Audit; Prereq: Chem grad student or instr consent)  
48747 001 LEC, 12:20-13:10 MWF, Smith Hall 111, In Person  
Term Based; Victor Young; 4 cr.

**8021 Computational Chemistry**

(Student Option; Prereq: 4502 or equiv)  
46691 001 LEC, 9:05-9:55 MWF, Smith Hall 331, In Person  
Term Based; Meets With: 001 CHEM 4021; Jiali Gao; 4 cr.

**8066 Professional Conduct of Chemical Research**

(S-N or Audit; Prereq: Chem grad student)  
54146 001 LEC, 16:40-18:00 T, Bruininks Hall 220, In Person  
Term Based; Donald Truhlar; 1 cr.

**8081 M.S. Plan B Project I**

(A-F or Audit; Prereq: grad chem major)  
46904 001 IND, In Person Term Based; Nancy Thao; 1-4 cr.

**8082 M.S. Plan B Project II**

(A-F or Audit; Prereq: grad chem major)  
46905 001 IND, In Person Term Based; Nancy Thao; 1-4 cr.

**8151 Analytical Separations and Chemical Equilibria**

(Student Option; Prereq: instr consent)  
57312 001 LEC, 11:15-12:05 MWF, Smith Hall 111, In Person  
Term Based; Peter Carr; 4 cr.

**8155 Advanced Electroanalytical Chemistry**

(Student Option; )  
68245 001 LEC, 10:10-11:00 MWF, Smith Hall 111, In Person  
Term Based; Phil Buhlmann; 4 cr.

**8211 Physical Polymer Chemistry**

(Student Option; Prereq: Undergrad physical chem course)  
53513 001 LEC, 14:30-15:45 TTh, Bruininks Hall 230, In Person  
Term Based; Meets With: 001 MATS 8211; Russell Holmes; 4 cr.

**8322 Advanced Organic Chemistry**

(Student Option; Prereq: 2302 or equiv)  
46695 001 LEC, 11:15-12:05 MWF, Bruininks Hall 117, In Person  
Term Based; Meets With: 001 CHEM 4322; Wayland Noland; 4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49100 001 IND, In Person Term Based; 1 cr.

**8352 Physical Organic Chemistry**

(Student Option; Prereq: 4011 or 8011)  
46697 001 LEC, 10:10-11:00 MWF, Smith Hall 121, In Person  
Term Based; Meets With: 001 CHEM 4352; Steven Kass; 4 cr.

**8412 Chemical Biology of Enzymes**

(Student Option; Prereq: 2302 or equiv)  
55439 001 LEC, 11:15-12:30 MW, Smith Hall 121, In Person  
Term Based; Meets With: 001 CHEM 4412; Lawrence Que; 4 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49200 001 IND, In Person Term Based; 1 cr.

**8552 Quantum Mechanics II**

(Student Option; Prereq: 8551)  
46699 001 LEC, 14:30-15:50 MW, Smith Hall 121, In Person  
Term Based; Laura Gagliardi; 4 cr.

**8564 Laser Spectroscopy**

(Student Option; Prereq: grad chem major or instr consent)  
68244 001 LEC, In Person Term Based; Aaron Massari; 2 cr.

**8580 Special Topics in Physical Chemistry**

(Student Option; Prereq: grad chem major or instr consent)  
58154 001 LEC, 13:25-14:15 MWF, Smith Hall 111, In Person  
Term Based; David Blank; 2-4 cr.

**8601 Seminar: Modern Problems in Chemistry**

(S-N or Audit; Prereq: grad chem major or instr consent)  
46902 001 LEC, 9:45-11:00 TTh, Rapson Hall 56, In Person  
Term Based; James Johns; 1 cr.

**8602 Seminar Presentation: Modern Problems in Chemistry**

(A-F or Audit; Prereq: grad chem major or instr consent)  
46903 001 LEC, 15:35-18:00 MWF, Smith Hall 331, In Person  
Term Based; James Johns; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49289 001 IND, In Person Term Based; 1-6 cr.

**8725 Organometallic Chemistry**

(Student Option; Prereq: 4701 or equiv, grad chem major or instr consent)  
60334 001 LEC, 11:15-12:30 TTh, Smith Hall 111, In Person  
Term Based; Meets With: 001 CHEM 4725; Ian Tonks; 4 cr.

**8735 Bioinorganic Chemistry**

(Student Option; Prereq: 4701 or equiv, grad chem major or instr consent)  
56558 001 LEC, 14:30-16:25 TTh, Smith Hall 111, In Person  
Term Based; Valerie Pierre; 4 cr.

**8745 Advanced Inorganic Chemistry**

(Student Option; Prereq: 8715, grad chem major or instr consent)  
68247 001 LEC, 14:30-16:25 TTh, Smith Hall 121, In Person  
Term Based; Meets With: 001 CHEM 4745; John Ellis; 4 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49389 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49085 001 IND, In Person Term Based; 1-24 cr.

**Chicano Studies (CHIC)****1102 Latinos in the United States: Culture and Citizenship**

(Student Option; DSJ,HIS)  
58561 001 LEC, 9:45-11:00 TTh, Nicholson Hall 35, In Person  
Term Based; Meets With: 001 CHIC 1102H; Jessica Lopez Lyman; 3 cr.

**1102H Honors: Latinos in the United States: Culture and Citizenship**

(A-F only; DSJ,HIS)  
58564 001 LEC, 9:45-11:00 TTh, Nicholson Hall 35, In Person  
Term Based; Meets With: 001 CHIC 1102; Jessica Lopez Lyman; 3 cr.

**1112 Introduction to Chicana/o Studies: Critical Paradigms**

(Student Option; DSJ)  
46561 001 LEC, 11:15-12:30 TTh, Wulling Hall 220, In Person  
Term Based; ; 3 cr.

**1275 Service Learning in the Chicano/Latino Community**

(A-F only; CIV)  
53163 001 LEC, 16:00-18:00 M, Nicholson Hall 120, In Person  
Term Based; Meets With: 001 CHIC 3275; Kathleen Ganley; 3 cr.

**3213 Chicano Music and Art**

(A-F or Audit; AH,DSJ)  
54135 001 LEC, 16:00-18:00 M, Nicholson Hall 315, In Person  
Term Based; ; 3 cr.

**3221 Introduction to Chicana/o Cultural Studies: Barrio Culture and the Aesthetics of Everyday Life**

(Student Option; AH,DSJ)  
60030 001 LEC, 14:30-15:45 MW, Nicholson Hall 345, In Person  
Term Based; ; 3 cr.

**3223 Chicana/o and Latina/o Representation in Film**

(Student Option; AH,DSJ)  
53164 001 LEC, 16:00-19:00 W, Nicholson Hall 110, In Person  
Term Based; Alexandra Covarrubias; 3 cr.

**3275 Service Learning in the Chicano/Latino Community**

(A-F only; CIV)  
53019 001 LEC, 16:00-18:00 M, Nicholson Hall 120, In Person  
Term Based; Meets With: 001 CHIC 1275; Kathleen Ganley; 3 cr.

**3374 Migrant Farmworkers in the United States: Families, Work, and Advocacy**

(Student Option; CIV)  
68067 001 DIS, 9:45-11:00 MW, Scott Hall 4, In Person Term Based; Meets With: 001 CHIC 5374; Edna Day; 4 cr.

**3446 Chicana/o History II: WWII, El Movimiento, and the New Millennium**

(Student Option; DSJ,HIS)  
53165 001 LEC, 9:45-11:00 TTh, Wulling Hall 220, In Person Term Based; Jimmy Patino; 3 cr.

**3507W Introduction to Chicana/o Literature**

(Student Option; DSJ,WI,LITR)  
53598 001 LEC, 11:15-12:30 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 ENGL 3507W; Alexandra Covarrubias; 3 cr.  
55224 002 LEC, 13:00-14:15 MW, Scott Hall 4, In Person Term Based; Meets With: 002 ENGL 3507W; ; 3 cr.

**3752 Chicanas and Chicanos in Contemporary Society**

(Student Option; DSJ)  
60032 001 LEC, 14:30-15:45 TTh, Nicholson Hall 145, In Person Term Based; ; 3 cr.

**3771 Latino Social Power and Social Movements in the U.S.**

(Student Option; )  
58562 001 LEC, 13:00-14:15 TTh, Wulling Hall 220, In Person Term Based; Jessica Lopez Lyman; 3 cr.

**3862 American Immigration History**

(A-F or Audit; DSJ,HIS)  
68483 001 LEC, 16:00-18:30 T, Nicholson Hall 35, In Person Term Based; Meets With: 090 HIST 3862090 AAS 3862; Erika Lee; 3 cr.

**3888 Immigration and the U.S. Latina/o Experience: Diaspora, Identity, and Community**

(Student Option; DSJ,HIS)  
60033 001 LEC, 13:00-14:15 TTh, Elliott Hall N647, In Person Term Based; Jimmy Patino; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent)  
68066 002 IND, In Person Term Based; Jimmy Patino; 1-9 cr.  
65476 001 IND, In Person Term Based; Eden Torres; 1-9 cr.

**4232 Chicana/o - Latina/o Gender and Sexuality Studies**

(Student Option; AH,DSJ)  
56390 001 LEC, 16:00-18:30 Th, Ford Hall 130, In Person Term Based; Meets With: 001 GLBT 4232; ; 3 cr.

**4275 Theory in Action: Community Engagement in a Social Justice Framework**

(Student Option; CIV)  
68069 001 LEC, 16:00-18:30 T, Scott Hall 4, In Person Term Based; Jessica Lopez Lyman; 3 cr.

**4401 Chicana/Latina Cultural Studies**

(Student Option; AH,DSJ)  
68070 001 LEC, 14:30-15:45 MW, Scott Hall 4, In Person Term Based; Edna Day; 3 cr.

**4901W Senior Paper**

(A-F only; WI)  
68071 001 IND, 16:00-17:15 M, Nicholson Hall 110, In Person Term Based; Eden Torres; 3 cr.

**5374 Migrant Farmworkers in the U.S.: Families, Work, and Advocacy**

(Student Option; CIV)  
68068 001 DIS, 9:45-11:00 MW, Scott Hall 4, In Person Term Based; Meets With: 001 CHIC 3374; Edna Day; 4 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent)  
46562 001 IND, In Person Term Based; Eden Torres; 1-3 cr.  
53894 002 IND, In Person Term Based; Jimmy Patino; 1-3 cr.

**Child & Adolescent Psychiatry (CAPY)****5630 Workshop: Psychotherapy in Children and Adolescents**

(Student Option; )

53586 001 LEC, 8:30-15:30 SaSu, , In Person Term Based; Michael Bloomquist; 1 cr.

**7201 Diagnostic Practicum in Child and Adolescent Psychiatry**

(H-N or Audit; Prereq: instr consent)  
49974 001 LEC, In Person Term Based; Jennifer Janacek; 1-6 cr.

**7602 Introductory Readings and Research Methods in Child, Adolescent, and Family Psychiatry**

(H-N or Audit; Prereq: Med student, instr consent)  
55139 001 IND, In Person Term Based; Jennifer Janacek; 2-6 cr.

**7603 Inpatient Clinical Child Psychiatry for Primary Care Physicians**

(H-N or Audit; )  
50007 001 LEC, In Person Term Based; Jennifer Janacek; 2-12 cr.

**7604 Outpatient Elective in Child and Adolescent Psychiatry**

(H-N only; )  
54817 001 FWK, 8:00-17:00 MTWThF, , In Person Term Based; Jennifer Janacek; 1-6 cr.

**Child Psychology (CPSY)****2301 Introductory Child Psychology**

(Student Option; Prereq: 4 cr intro psych)  
60699 011 LEC, In Person Term Based; 4 cr.  
60698 010 LEC, 10:10-12:05 TTh, Burton Hall 123, In Person Term Based; 4 cr.  
60696 008 LEC, 18:00-21:00 T, Elliott Hall N119, In Person Term Based; 4 cr.  
60697 009 LEC, 10:10-12:05 TTh, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.  
46450 003 DIS, 11:15-12:05 F, Burton Hall 125, In Person Term Based; Henriette Warren; 4 cr.  
50540 004 DIS, 11:40-12:30 F, Elliott Hall N647, In Person Term Based; Henriette Warren; 4 cr.  
46449 002 DIS, 11:15-12:05 F, Wulling Hall 240, In Person Term Based; Henriette Warren; 4 cr.  
46448 001 LEC, 11:15-12:30 MW, Nicholson Hall 275, In Person Term Based; Meets With: 001 CPSY 3301; Henriette Warren; 4 cr.  
50409 B04 LEC, Online & Distance Lrng (ODL); Marian Heinrichs; 4 cr.  
50410 C04 LEC, Online & Distance Lrng (ODL); Marian Heinrichs; 4 cr.  
48646 D04 LEC, Online & Distance Lrng (ODL); Marian Heinrichs; 4 cr.  
48647 E04 LEC, Online & Distance Lrng (ODL); Marian Heinrichs; 4 cr.

**3301 Introductory Child Psychology for Social Sciences**

(Student Option; )  
60702 003 LEC, 18:00-21:00 T, Peik Hall 335, In Person Term Based; 4 cr.  
59331 001 LEC, 11:15-12:30 MW, Nicholson Hall 275, In Person Term Based; Meets With: 001 CPSY 2301; Henriette Warren; 4 cr.  
59333 002 DIS, 11:40-12:30 F, Appleby Hall 11, In Person Term Based; Henriette Warren; 4 cr.

**3308W Introduction to Research Methods in Child Psychology**

(A-F or Audit; Prereq: 2301, Psy 1001WI)  
49787 002 LEC, 13:00-14:40 MW, Peik Hall 155, In Person Term Based; Canan Karatekin; 4 cr.  
46454 001 LEC, 9:45-11:25 MW, Nicholson Hall 110, In Person Term Based; Chryle Elieff; 4 cr.

**4302 Infant Development**

(A-F or Audit; Prereq: 2301 or instr consent)  
58019 001 LEC, 13:00-14:15 TTh, Bruininks Hall 420B, In Person Term Based; Zack Haas; 3 cr.

**4303 Adolescent Psychology**

(A-F or Audit; Prereq: Psy 1001)  
46091 001 LEC, 16:00-17:15 MW, Elliott Hall N119, In Person Term Based; Zack Haas; 3 cr.

**4310 Special Topics in Child Development**

(Student Option; Prereq: 2301)  
55710 001 LEC, In Person Term Based; 1-4 cr.

**4313W Disabilities and Development**

(Student Option; Prereq: Psy 1001WI)  
46451 001 LEC, 9:45-11:00 TTh, Rapson Hall 31, In Person Term Based; Brian Abery; 4 cr.

**4329 Biological Foundations of Development**

(A-F or Audit; Prereq: 2301 or equiv)  
56474 001 LEC, 9:45-11:00 MW, Rapson Hall 56, In Person Term Based; Kathleen Thomas; 3 cr.

**4331 Social and Personality Development**

(A-F or Audit; Prereq: 2301, Psy 1001)  
46092 001 LEC, 16:00-17:15 TTh, Nicholson Hall 125, In Person Term Based; Zack Haas; 3 cr.

**4334W Children, Youth in Society**

(A-F or Audit; Prereq: 2301WI)  
46452 001 LEC, 13:00-14:15 MW, Burton Hall 125, In Person Term Based; Arthur Reynolds; 3 cr.

**4343 Cognitive Development**

(A-F or Audit; Prereq: 2301)  
46455 001 LEC, 14:30-15:45 TTh, Smith Hall 331, In Person Term Based; Stephanie Carlson; 3 cr.

**4345 Language Development and Communication**

(A-F or Audit; Prereq: 2301)  
46453 001 LEC, 11:15-12:30 MW, Hanson Hall, Room 1-108, In Person Term Based; Maria Sera; 3 cr.

**4347W Senior Project**

(A-F or Audit; Prereq: CPsy srWI)  
56003 002 LEC, In Person Term Based; Philip Zelazo; 2 cr.  
50188 001 LEC, 14:30-16:10 M, Rapson Hall 31, In Person Term Based; Philip Zelazo; 2 cr.

**4993 Directed Experiences in Early Childhood Education**

(A-F only; Prereq: ECE student)  
57103 001 LEC, 9:00-11:30 F, Carlson School of Mgmt 1-136, In Person Term Based; Marie Lister; 3 cr.

**4994 Directed Research in Child Psychology**

(Student Option; Prereq: 4 cr in CPsy, instr consent, dept consent)  
51438 006 IND, In Person Term Based; ; 1-4 cr.  
51440 008 IND, In Person Term Based; Abigail Gewirtz; 1-4 cr.  
55485 022 IND, In Person Term Based; Albert Yonas; 1-4 cr.  
51446 014 IND, In Person Term Based; Ann Masten; 1-4 cr.  
51448 016 IND, In Person Term Based; Arthur Reynolds; 1-4 cr.  
46889 001 IND, In Person Term Based; Brian Abery; 1-4 cr.  
51442 010 IND, In Person Term Based; Canan Karatekin; 1-4 cr.  
51435 003 IND, In Person Term Based; Dante Cicchetti; 1-4 cr.  
52562 017 IND, In Person Term Based; Glenn Roisman; 1-4 cr.  
51437 005 IND, In Person Term Based; Jed Elison; 1-4 cr.  
55167 021 IND, In Person Term Based; Kathleen Thomas; 1-4 cr.  
53988 020 IND, In Person Term Based; L Sroufe; 1-4 cr.  
51444 012 IND, In Person Term Based; Maria Kroupina; 1-4 cr.  
53965 019 IND, In Person Term Based; Maria Sera; 1-4 cr.  
51441 009 IND, In Person Term Based; Megan Gunnar; 1-4 cr.  
51443 011 IND, In Person Term Based; Melissa Koenig; 1-4 cr.  
51439 007 IND, In Person Term Based; Michael Georgieff; 1-4 cr.  
51445 013 IND, In Person Term Based; Michael Maratsos; 1-4 cr.  
51447 015 IND, In Person Term Based; Michele Mazzocco; 1-4 cr.  
57754 024 IND, In Person Term Based; Philip Zelazo; 1-4 cr.  
53964 018 IND, In Person Term Based; Rebecca Schlafer; 1-4 cr.  
51434 002 IND, In Person Term Based; Stephanie Carlson; 1-4 cr.  
57753 023 IND, In Person Term Based; Steve Yussen; 1-4 cr.  
51436 004 IND, In Person Term Based; W Collins; 1-4 cr.

**4994V Directed Research in Child Psychology (Honors Thesis)**

(Student Option; Prereq: 4 cr in CPsy, CPsy honors, instr consent, dept consentWI)  
51451 004 IND, In Person Term Based; 1-6 cr.

51452 005 IND, In Person Term Based; 1-6 cr.  
 51453 006 IND, In Person Term Based; Abigail Gewirtz; 1-6 cr.  
 54484 017 IND, In Person Term Based; Albert Yonas; 1-6 cr.  
 51458 011 IND, In Person Term Based; Ann Masten; 1-6 cr.  
 51460 013 IND, In Person Term Based; Arthur Reynolds; 1-6 cr.  
 51455 008 IND, In Person Term Based; Canan Karatekin; 1-6 cr.  
 55487 020 IND, In Person Term Based; Chryle Elieff; 1-6 cr.  
 51449 002 IND, In Person Term Based; Dante Cicchetti; 1-6 cr.  
 51461 014 IND, In Person Term Based; Glenn Roisman; 1-6 cr.  
 51463 016 IND, In Person Term Based; Kathleen Thomas; 1-6 cr.  
 51462 015 IND, In Person Term Based; Maria Sera; 1-6 cr.  
 51454 007 IND, In Person Term Based; Megan Gunnar; 1-6 cr.  
 51456 009 IND, In Person Term Based; Melissa Koenig; 1-6 cr.  
 51457 010 IND, In Person Term Based; Michael Maratsos; 1-6 cr.  
 51459 012 IND, In Person Term Based; Michele Mazzocco; 1-6 cr.  
 55486 019 IND, In Person Term Based; Philip Zelazo; 1-6 cr.  
 55488 021 IND, In Person Term Based; Rebecca Schlafer; 1-6 cr.  
 49607 001 IND, In Person Term Based; Stephanie Carlson; 1-6 cr.  
 55168 018 IND, In Person Term Based; Steve Yussen; 1-6 cr.  
 51450 003 IND, In Person Term Based; W Collins; 1-6 cr.

#### 4996 Field Study in Child Psychology

(S-N or Audit; Prereq: 4 cr CPsy, instr consent)  
 59609 502 FWK, Study Abroad; Frances Durkin; 1-4 cr.  
 59610 503 FWK, Study Abroad; Frances Durkin; 1-4 cr.  
 46888 001 FWK, Completely Online; Henriette Warren; 1-4 cr.

#### 5252W Facilitating Social and Emotional Learning in Early Childhood Education

(A-F only; Prereq: Student in ECE or ECSEW)  
 50129 001 LEC, 16:00-18:30 T, Burton Hall 120, In Person Term Based; Elizabeth Criswell; 3 cr.

#### 5254 Facilitating Creative and Motor Learning in Early Childhood Education

(A-F only; Prereq: Student in ECE or ECSE)  
 57104 001 LEC, 14:30-16:30 F, Burton Hall 125, In Person Term Based; Ross Thompson; 2 cr.

#### 5281 Student Teaching in Early Childhood Education

(S-N or Audit; Prereq: MEd student in early childhood ed or early childhood special ed)  
 48520 001 FWK, In Person Term Based; Danielle Bordeleau; 1-6 cr.  
 48520 001 FWK, In Person Term Based; Danielle Bordeleau; 1-6 cr.

#### 5521 Prevention and Intervention in Infant and Early Childhood Mental Health II

(A-F only; Prereq: 5518)  
 68506 001 LEC, 13:00-19:00 Th, Carlson School of Mgmt L-122, 8:30-12:00 F, Carlson School of Mgmt L-122, 13:00-19:00 Th, Carlson School of Mgmt L-122, 8:30-12:00 F, Carlson School of Mgmt L-122, 13:00-19:00 Th, Carlson School of Mgmt L-122, 8:30-12:00 F, Carlson School of Mgmt L-122, 13:00-19:00 Th, Carlson School of Mgmt L-122, 8:30-12:00 F, Carlson School of Mgmt L-122, 13:00-19:00 Th, Carlson School of Mgmt L-122, 8:30-12:00 F, Carlson School of Mgmt L-122, In Person Term Based; Elizabeth Carlson; 3 cr.

#### 5525 Reflective Supervision in Infant and Early Childhood Mental Health: Clinical

(S-N only; Prereq: concurrent registration is required (or allowed) in 5518 or concurrent registration is required (or allowed) in 5521)  
 58023 004 IND, 12:45-15:15 F, Carlson School of Mgmt L-122, 12:45-15:15 F, Carlson School of Mgmt L-122, 12:45-15:15 F, Carlson School of Mgmt L-122, 12:45-15:15 F, Carlson School of Mgmt L-122, In Person Term Based; Elizabeth Carlson; 1 cr.  
 58022 003 IND, 12:45-15:15 F, Carlson School of Mgmt L-135, 12:45-15:15 F, Carlson School of Mgmt L-135, 12:45-15:15 F, Carlson School of Mgmt L-135, 12:45-15:15 F, Carlson School of Mgmt L-135, In Person Term Based; Elizabeth Carlson; 1 cr.  
 58020 001 IND, 12:45-15:15 F, Carlson School of Mgmt L-136, 12:45-15:15 F, Carlson School of Mgmt L-136, 12:45-15:15 F, Carlson School of Mgmt L-136, 12:45-15:15 F, Carlson School of Mgmt L-136, In Person Term Based; Elizabeth Carlson; 1 cr.

58021 002 IND, 12:45-15:15 F, Carlson School of Mgmt L-143, 12:45-15:15 F, Carlson School of Mgmt L-143, 12:45-15:15 F, Carlson School of Mgmt L-143, 12:45-15:15 F, Carlson School of Mgmt L-143, In Person Term Based; Elizabeth Carlson; 1 cr.

#### 8102 Writing Developmental Psych Grants for NIH and NSF

(A-F only; Prereq: Doctoral students in second year of study or beyond)  
 67340 001 DIS, 14:30-16:00 MF, Child Development 105, In Person Term Based; Megan Gunnar; 1-3 cr.

#### 8302 Developmental Psychology: Social and Emotional Processes

(Student Option; Prereq: Doctoral student, instr consent)  
 46680 001 LEC, 13:35-15:25 TTh, Child Development 105, In Person Term Based; Megan Gunnar; 4 cr.

#### 8307 Prelim Seminar

(S-N only; Prereq: Child psychology PhD student in second year of study)  
 60544 001 DIS, In Person Term Based; Michael Maratsos; 1 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49105 001 IND, In Person Term Based; Danielle Bordeleau; 1 cr.

#### 8360 Special Topics in Developmental Psychology

(Student Option; Prereq: Doctoral student)  
 60545 001 LEC, In Person Term Based; Abigail Gewirtz; 1-3 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49204 001 IND, In Person Term Based; Danielle Bordeleau; 1 cr.

#### 8606 Advanced Developmental Psychopathology

(Student Option; Prereq: Doctoral student or instr consent)  
 53077 001 LEC, 12:30-13:45 MW, Child Development 172, In Person Term Based; Ann Masten; 3 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49293 001 IND, In Person Term Based; Danielle Bordeleau; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49393 001 IND, In Person Term Based; Danielle Bordeleau; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49517 001 IND, In Person Term Based; Danielle Bordeleau; 1-24 cr.

#### 8993 Directed Study in Child Psychology

(Student Option; Prereq: Doctoral student or instr consent)  
 46886 001 LEC, In Person Term Based; 1-4 cr.

#### 8994 Research Problems in Child Psychology

(Student Option; Prereq: Doctoral student or instr consent)  
 48738 007 LEC, In Person Term Based; Abigail Gewirtz; 1-6 cr.  
 54298 019 LEC, In Person Term Based; Albert Yonas; 1-6 cr.  
 50118 013 LEC, In Person Term Based; Ann Masten; 1-6 cr.  
 53938 014 LEC, In Person Term Based; Arthur Reynolds; 1-6 cr.  
 48735 004 LEC, In Person Term Based; Byron Egeland; 1-6 cr.  
 48740 009 LEC, In Person Term Based; Canan Karatekin; 1-6 cr.

48733 002 LEC, In Person Term Based; Dante Cicchetti; 1-6 cr.  
 54294 015 LEC, In Person Term Based; Glenn Roisman; 1-6 cr.  
 48736 005 LEC, In Person Term Based; Jed Elison; 1-6 cr.  
 54297 018 LEC, In Person Term Based; Kathleen Thomas; 1-6 cr.  
 54296 017 LEC, In Person Term Based; L Sroufe; 1-6 cr.  
 54295 016 LEC, In Person Term Based; Maria Sera; 1-6 cr.  
 48739 008 LEC, In Person Term Based; Megan Gunnar; 1-6 cr.  
 48741 010 LEC, In Person Term Based; Melissa Koenig; 1-6 cr.  
 48737 006 LEC, In Person Term Based; Michael Georgieff; 1-6 cr.  
 48742 011 LEC, In Person Term Based; Michael Maratsos; 1-6 cr.  
 48743 012 LEC, In Person Term Based; Michele Mazzocco; 1-6 cr.  
 58404 021 LEC, In Person Term Based; Philip Zelazo; 1-6 cr.  
 46887 001 LEC, In Person Term Based; Stephanie Carlson; 1-6 cr.  
 58014 020 LEC, In Person Term Based; Steve Yussen; 1-6 cr.  
 48734 003 LEC, In Person Term Based; W Collins; 1-6 cr.

#### 8996 Directed Field Experiences in Child Psychology

(S-N or Audit; Prereq: Doctoral student, instr consent)  
 46919 001 FWK, In Person Term Based; 1-6 cr.

### China Executive MBA (CHMB)

#### 5803 Operations Management

(A-F only; )  
 59762 001 LEC, In Person Term Based; Deirdre Opp; 3 cr.

#### 5804 Managerial Accounting

(A-F only; )  
 50229 001 LEC, In Person Term Based; Deirdre Opp; 3 cr.

#### 5806 Marketing Management

(A-F only; )  
 50230 001 LEC, Study Abroad; Deirdre Opp; 3 cr.

#### 5809 Advanced Financial Management

(A-F only; )  
 57310 001 LEC, Study Abroad; Deirdre Opp; 3 cr.

#### 5810 International Environment

(A-F only; Prereq: China Executive MBA student)  
 58091 001 LEC, Study Abroad; Deirdre Opp; 1.5 cr.

#### 5813 Ethics and Leadership

(A-F only; )  
 51085 001 LEC, Study Abroad; Deirdre Opp; 3 cr.

#### 5814 Business, Government, and Macroeconomics

(A-F only; )  
 56528 001 LEC, Study Abroad; Deirdre Opp; 3 cr.

#### 5815 International Human Resources Management

(A-F only; )  
 51086 001 LEC, Study Abroad; Deirdre Opp; 3 cr.

#### 5816 International Residency

(A-F only; )  
 51087 001 LEC, In Person Term Based; Deirdre Opp; 6 cr.

#### 5817 China's Economy

(A-F or Audit; Prereq: China Executive MBA student)  
 59666 001 LEC, In Person Term Based; Deirdre Opp; 1.5 cr.

#### 5818 Law and Business

(A-F only; )  
 59667 001 LEC, In Person Term Based; Deirdre Opp; 3 cr.

### Chinese (CHN)

#### 1012 Beginning Modern Chinese II

(Student Option; Prereq: 1011 or equiv or instr consent)  
 47555 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 16, Partially Online; Meets With: 001 CHN 4002; Ling Wang; 6 cr.  
 47556 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 18, Partially Online; Meets With: 003 CHN 4002; Ling Wang; 6 cr.

47558 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 18, Partially Online; Meets With: 004 CHN 4002; Ling Wang; 3 cr.  
 54901 006 LEC, 16:40-17:30 MTWThF, Kolthoff Hall 135, Partially Online; Meets With: 006 CHN 4002; Ling Wang; 3 cr.  
 50493 005 LEC, 14:30-15:20 MTWThF, Folwell Hall 16, Partially Online; Meets With: 005 CHN 4002; Ling Wang; 6 cr.  
 50494 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 16, Partially Online; Meets With: 002 CHN 4002; Ling Wang; 6 cr.  
 51137 050 LEC, 16:40-18:35 MWTh, Folwell Hall 103, Partially Online; Meets With: 050 CHN 4002; Ling Wang; 6 cr.

### 1016 Accelerated Intermediate Modern Chinese

(Student Option; Prereq: 1012 or 1015; oral/aural skills or speaker of other Chinese dialect recommended)  
 49774 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 103, In Person Term Based; Meets With: 001 CHN 4006; Jin Stone; 5 cr.

### 3022 Intermediate Modern Chinese II

(Student Option; Prereq: 3021)  
 55368 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 004 CHN 4004; Ling Wang; 5 cr.  
 51138 050 LEC, 16:40-19:00 TTh, Folwell Hall 123, In Person Term Based; Meets With: 050 CHN 4004; Ling Wang; 5 cr.  
 47559 001 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 001 CHN 4004; Ling Wang; 5 cr.  
 47560 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 CHN 4004; Ling Wang; 5 cr.  
 47561 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 CHN 4004; Ling Wang; 5 cr.  
 55369 005 LEC, 14:30-15:20 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 005 CHN 4004; Ling Wang; 5 cr.

### 3032 Advanced Modern Chinese II

(Student Option; Prereq: 3031 or equiv or instr consent)  
 50497 001 LEC, 11:15-12:05 MTWTh, Folwell Hall 32, In Person Term Based; Meets With: 001 CHN 4008; Yao Tu; 4 cr.  
 57796 050 LEC, 16:40-18:35 MW, Folwell Hall 123, In Person Term Based; Meets With: 050 CHN 4008; Yao Tu; 4 cr.  
 57585 002 LEC, 13:25-14:15 MTWTh, Kolthoff Hall 140, In Person Term Based; Meets With: 002 CHN 4008; Yao Tu; 4 cr.

### 3201 Chinese Calligraphy

(Student Option; )  
 50876 050 LAB, 18:00-20:00 W, Folwell Hall 112, In Person Term Based; Hong Zhang; 2 cr.

### 3202 Intermediate Chinese Calligraphy

(Student Option; Prereq: 3201 or instr consent)  
 50496 050 LAB, 18:00-20:00 T, Folwell Hall 112, In Person Term Based; Hong Zhang; 2 cr.

### 3290 Chinese Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 3032)  
 56001 001 FWK, In Person Term Based; Ling Wang; 1 cr.

### 3993 Directed Studies

(Student Option No Audit; Prereq: instr consent, dept consent, college consent)  
 67487 001 IND, In Person Term Based; Ling Wang; 1-5 cr.

### 4002 Beginning Modern Chinese II

(Student Option; Prereq: 4001, grad student)  
 51162 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 18, Partially Online; Meets With: 003 CHN 1012; Ling Wang; 3 cr.  
 51160 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 16, Partially Online; Meets With: 001 CHN 1012; Ling Wang; 3 cr.  
 51163 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 18, Partially Online; Meets With: 004 CHN 1012; Ling Wang; 3 cr.  
 54902 006 LEC, 16:40-17:30 MTWThF, Kolthoff Hall 135, Partially Online; Meets With: 006 CHN 1012; Ling Wang; 3 cr.  
 51164 005 LEC, 14:30-15:20 MTWThF, Folwell Hall 16, Partially Online; Meets With: 005 CHN 1012; Ling Wang; 3 cr.

51161 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 16, Partially Online; Meets With: 002 CHN 1012; Ling Wang; 3 cr.  
 51165 050 LEC, 16:40-18:35 MWTh, Folwell Hall 103, Partially Online; Meets With: 050 CHN 1012; Ling Wang; 3 cr.

### 4004 Intermediate Modern Chinese II

(Student Option; Prereq: 4003, grad student)  
 55408 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 004 CHN 3022; Ling Wang; 3 cr.  
 52325 050 LEC, 16:40-19:00 TTh, Folwell Hall 123, In Person Term Based; Meets With: 050 CHN 3022; Ling Wang; 3 cr.  
 51168 001 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 001 CHN 3022; Ling Wang; 3 cr.  
 51169 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 CHN 3022; Ling Wang; 3 cr.  
 51170 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 CHN 3022; Ling Wang; 3 cr.  
 55433 005 LEC, 14:30-15:20 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 005 CHN 3022; Ling Wang; 3 cr.

### 4006 Accelerated Intermediate Modern Chinese

(Student Option; Prereq: [[1012 or 1015], grad student] or instr consent; oral/aural skills or other Chinese dialect recommended)  
 56036 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 103, In Person Term Based; Meets With: 001 CHN 1016; Jin Stone; 3 cr.

### 4008 Advanced Modern Chinese II

(Student Option; Prereq: 4007, grad student)  
 53466 001 LEC, 11:15-12:05 MTWTh, Folwell Hall 32, In Person Term Based; Meets With: 001 CHN 3032; Yao Tu; 3 cr.  
 57797 050 LEC, 16:40-18:35 MW, Folwell Hall 123, In Person Term Based; Meets With: 050 CHN 3032; Yao Tu; 3 cr.  
 57586 002 LEC, 13:25-14:15 MTWTh, Kolthoff Hall 140, In Person Term Based; Meets With: 002 CHN 3032; Yao Tu; 3 cr.

### 4042 Advanced Readings in Modern Chinese II

(Student Option; Prereq: 3032 or instr consent)  
 61202 002 DIS, 14:30-16:25 MW, Folwell Hall 121, In Person Term Based; Ling Wang; 4 cr.  
 57798 001 DIS, 10:10-12:05 TTh, Nicholson Hall 125, In Person Term Based; Ling Wang; 4 cr.

### 5040 Readings in Chinese Texts

(A-F or Audit; Prereq: 4042 or equiv or instr consent)  
 50495 001 DIS, 10:10-11:00 MWF, Folwell Hall 119, In Person Term Based; Zhen Zou; 3 cr.

### 5212 Introductory Classical Chinese II

(Student Option; Prereq: 5211 and two years of an East Asian language (Chinese, Japanese, Korean) or its equivalent or instr consent)  
 60125 001 DIS, 12:20-13:10 MWF, Folwell Hall 116, In Person Term Based; Paul Rouzer; 3 cr.

## Civil, Environ, and Geo-Engin (CEGE)

### 3101 Computer Applications in Civil Engineering I

(A-F or Audit; Prereq: MATH 1272, PHYS 1301, CSE)  
 50567 001 LEC, 14:30-15:45 TTh, Fraser Hall 102, In Person Term Based; Stefano Gonella; 3 cr.

### 3102 Uncertainty and Decision Analysis in Civil Engineering

(A-F or Audit; Prereq: MATH 1372 or equiv)  
 52371 001 LEC, 10:10-11:00 TTh, Civil Engineering Bldg 210, In Person Term Based; Randal Barnes; 3 cr.  
 56529 002 DIS, 8:00-8:50 Th, Civil Engineering Bldg 188, In Person Term Based; Randal Barnes; 3 cr.  
 56530 003 DIS, 9:05-9:55 Th, Civil Engineering Bldg 188, In Person Term Based; Randal Barnes; 3 cr.  
 56531 004 DIS, 12:20-13:10 Th, Civil Engineering Bldg 188, In Person Term Based; Randal Barnes; 3 cr.

### 3201 Transportation Engineering

(Student Option; Prereq: PHYS 1301, 3101, 3102)  
 46595 001 LEC, 8:15-9:30 MW, Civil Engineering Bldg 210, In Person Term Based; Adam Boies; 3 cr.  
 51255 005 DIS, 17:00-17:50 Th, Civil Engineering Bldg 202, In Person Term Based; Tiffany Ralston; 3 cr.  
 46596 002 DIS, 14:30-15:20 Th, Civil Engineering Bldg 202, In Person Term Based; Tiffany Ralston; 3 cr.  
 46597 003 DIS, 16:00-16:50 Th, Civil Engineering Bldg 202, In Person Term Based; Tiffany Ralston; 3 cr.

### 3301 Soil Mechanics I

(A-F or Audit; Prereq: CSE, AEM 3031)  
 46712 001 LEC, 13:00-14:15 MW, Civil Engineering Bldg 210, In Person Term Based; Bojan Guzina; 3 cr.  
 49821 005 LAB, 16:00-18:00 Th, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina; 3 cr.  
 46715 004 LAB, 16:00-18:00 W, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina; 3 cr.  
 46714 003 LAB, 16:00-18:00 T, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina; 3 cr.  
 46713 002 LAB, 16:00-18:00 M, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina; 3 cr.

### 3401 Linear Structural Analysis

(A-F or Audit; Prereq: Grade of at least C- in AEM 3031, CSE)  
 46756 001 LEC, 14:30-15:45 TTh, Civil Engineering Bldg 210, In Person Term Based; Henryk Stolarski; 3 cr.

### 3402W Civil Engineering Materials

(A-F or Audit; Prereq: Grade of at least C- in [AEM 3031 or BBE 3001], ITW)  
 46824 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 210, In Person Term Based; Lev Khazanovich; 3 cr.  
 46827 004 LAB, 10:10-12:05 Th, Civil Engineering Bldg 188, In Person Term Based; Lev Khazanovich; 3 cr.  
 46826 003 LAB, 12:35-14:20 W, Civil Engineering Bldg 188, In Person Term Based; Lev Khazanovich; 3 cr.  
 46825 002 LAB, 13:25-15:20 T, Civil Engineering Bldg 188, In Person Term Based; Lev Khazanovich; 3 cr.

### 3501 Environmental Engineering

(A-F or Audit; Prereq: Chem 1022, Phys 1302ENV)  
 46709 001 LEC, 11:15-12:30 TTh, Mayo Bldg & Additions C231, In Person Term Based; Erin Surdo; 3 cr.

### 3502 Fluid Mechanics

(A-F or Audit; Prereq: [AEM 2012 or AEM 3031], Math 2373, [CSE or ForP major])  
 46913 001 LEC, 9:45-11:00 MW, Civil Engineering Bldg 210, In Person Term Based; Michele Guala; 4 cr.  
 46916 004 LAB, 8:00-10:00 Th, Civil Engineering Bldg 277, In Person Term Based; Michele Guala; 4 cr.  
 46914 002 LAB, 8:00-10:00 T, Civil Engineering Bldg 277, In Person Term Based; Michele Guala; 4 cr.  
 58624 005 LAB, 12:30-14:30 Th, Civil Engineering Bldg 277, In Person Term Based; Michele Guala; 4 cr.  
 46915 003 LAB, 16:00-18:00 T, Civil Engineering Bldg 277, In Person Term Based; Michele Guala; 4 cr.

### 4000H Honors Research Seminar

(A-F only; Prereq: Upper div CE)  
 56835 001 LEC, In Person Term Based; Randal Barnes; 1 cr.

### 4094H Senior Honors Thesis

(A-F only; Prereq: Upper div CE)  
 58373 001 IND, In Person Term Based; Randal Barnes; 2 cr.

### 4102W Capstone Design for Civil Engineering

(A-F or Audit; Prereq: 4301, 4401, 4501, 4502WI)  
 46592 001 LEC, 16:00-17:15 TTh, Civil Engineering Bldg 210, In Person Term Based; Catherine French; 3 cr.

### 4104W Capstone Design for Geoenvironmental Engineering

(A-F or Audit; Prereq: CE 4121, CE 4311, CE 4351, ESCI 4501WI)  
 68103 001 LEC, 16:00-17:15 TTh, Civil Engineering Bldg 210, In Person Term Based; Catherine French; 4 cr.

### 4121 Computer Applications in Civil Engineering II

(A-F or Audit; Prereq: 3101, MATH 2243, MATH 2263, [CE or upper div GeoE])  
 54517 001 LEC, 14:30-15:45 MW, Civil Engineering Bldg 205, In Person Term Based; Randal Barnes; 3 cr.

### 4180 Independent Study II

(Student Option; Prereq: instr consent)  
 46593 001 IND, In Person Term Based; Tiffany Ralston; 1-4 cr.



**4190 Engineering Co-op Assignment**

(S-N or Audit; Prereq: Upper div CE, approval of department co-op director)  
46594 001 FWK, In Person Term Based; Joseph Labuz; 2-6 cr.

**4211 Traffic Engineering**

(Student Option; Prereq: 3201 or Stat 3021 or equiv)  
68093 001 LEC, 16:00-17:15 MW, Civil Engineering Bldg 205, In Person Term Based; Meets With: 001 CECE 5211; Gary Davis; 3 cr.

**4251 Pavement Analysis, Design, and Rehabilitation**

(Student Option; Prereq: [3201, 3301, 3402, upper div CSE] or grad student or instr consent)  
68095 001 LEC, 15:35-17:30 MW, Rapson Hall 45, In Person Term Based; Lev Khazanovich; 4 cr.

**4301 Soil Mechanics II**

(A-F or Audit; Prereq: [[3301 or GEOE 3301], upper div CSE] or instr consent)

49822 001 LEC, 14:30-15:45 MW, Civil Engineering Bldg 210, In Person Term Based; Joseph Labuz; 3 cr.  
50250 005 LAB, 16:00-18:00 Th, Civil Engineering Bldg 350, In Person Term Based; Joseph Labuz; 3 cr.  
49824 004 LAB, 16:00-18:00 W, Civil Engineering Bldg 350, In Person Term Based; Joseph Labuz; 3 cr.  
49823 003 LAB, 16:00-18:00 T, Civil Engineering Bldg 350, In Person Term Based; Joseph Labuz; 3 cr.  
48793 002 LAB, 16:00-18:00 M, Civil Engineering Bldg 350, In Person Term Based; Joseph Labuz; 3 cr.

**4352 Groundwater Modeling**

(A-F or Audit; Prereq: [4351, GEOE 4351, [upper div CSE or grad student]] or instr consent)  
68104 001 LEC, 9:45-11:00 TTh, Civil Engineering Bldg 205, In Person Term Based; Otto Strack; 3 cr.

**4401 Steel and Reinforced Concrete Design**

(A-F or Audit; Prereq: Grade of at least C- in 3401, concurrent registration is required (or allowed) in 3402, [upper div CSE or grad student])

47212 001 LEC, 11:15-13:10 TTh, Civil Engineering Bldg 210, In Person Term Based; Lauren Linderman; 4 cr.  
47215 004 DIS, 15:50-16:40 T, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman; 4 cr.  
47213 002 DIS, 13:25-14:15 T, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman; 4 cr.  
47214 003 DIS, 14:30-15:20 T, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman; 4 cr.

**4411 Matrix Structural Analysis**

(A-F or Audit; Prereq: [Grade of at least C- in [3101, 3401] or in a CSci programming course], [upper div CSE or grad student]] or instr consent)

68105 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 205, In Person Term Based; Dominik Schillinger; 3 cr.

**4412 Reinforced Concrete Design II**

(A-F or Audit; Prereq: [Grade of at least C- in 4401, [upper div CSE or grad student]] or instr consent; 4411 recommended)

68106 001 LEC, 13:00-14:15 MW, Civil Engineering Bldg 205, In Person Term Based; Arturo Schultz; 3 cr.

**4501 Hydrologic Design**

(A-F or Audit; Prereq: 3502)  
46605 001 LEC, 16:40-17:55 MW, Civil Engineering Bldg 210, In Person Term Based; Omid Mohseni; 4 cr.  
49017 004 DIS, 9:45-11:00 W, Civil Engineering Bldg 188, In Person Term Based; Omid Mohseni; 4 cr.  
46607 003 DIS, 9:45-11:00 T, Civil Engineering Bldg 188, In Person Term Based; Omid Mohseni; 4 cr.  
46606 002 DIS, 9:45-11:00 M, Civil Engineering Bldg 188, In Person Term Based; Omid Mohseni; 4 cr.

**4502 Water and Wastewater Treatment**

(A-F or Audit; Prereq: 3501 or CHEN 2001)  
46792 001 LEC, 9:45-11:00 TTh, Mayo Bldg & Additions C231, In Person Term Based; Timothy LaPara; 3 cr.

**4562 Environmental Remediation Technology**

(A-F or Audit; Prereq: [3501, 4501] or instr consent)  
68088 001 LEC, 9:45-11:00 TTh, Civil Engineering Bldg 202, In Person Term Based; Raymond Hozalski; 3 cr.

**5094 Civil Engineering Research**

(Student Option; Prereq: instr consent)  
51605 001 IND, In Person Term Based; Tiffany Ralston; 1-4 cr.

**5211 Traffic Engineering**

(Student Option; Prereq: 3201, Stat 3021 or equiv)  
68094 001 LEC, 16:00-17:15 MW, Civil Engineering Bldg 205, In Person Term Based; Meets With: 001 CECE 4211; Gary Davis; 3 cr.

**5511 Urban Hydrology and Water Quality**

(A-F or Audit; Prereq: CE 4501)  
68098 001 LEC, 15:35-17:30 MW, Civil Engineering Bldg 194, In Person Term Based; John Gulliver; 4 cr.

**5542 Experimental Methods in Environmental Engineering**

(A-F or Audit; Prereq: 3501, Chem 1021, Chem 1022)  
68089 001 LEC, 13:00-13:50 T, Civil Engineering Bldg 205, In Person Term Based; Erin Surdo; 3 cr.  
68090 002 LAB, 9:00-12:00 F, Civil Engineering Bldg 657, In Person Term Based; Erin Surdo; 3 cr.

**5561 Air Quality Engineering**

(A-F only; Prereq: Grad student in engineering or instr consent)  
68416 001 LEC, 9:45-11:00 MW, Bruininks Hal 121, In Person Term Based; Julian Marshall; 3 cr.

**5572 Acara Social Venture Launchpad:**

**Ideas to Impact**  
(A-F only; Prereq: instr consent)  
67603 001 LEC, 8:30-17:00 MTWThFSaSu, Civil Engineering Bldg 212, In Person Term Based; Fred Rose; 1-2 cr.

**5573 Design for Sustainable Development:**

**Create II**  
(S-N only; )  
68085 001 LEC, In Person Term Based; Julian Marshall; 1-5 cr.

**8022 Numerical Methods for Free and Moving Boundary Problems**

(A-F or Audit; Prereq: 8401 or instr consent)  
68099 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 194, In Person Term Based; Vaughan Voller; 3 cr.

**8094 Civil Engineering Research**

(Student Option; Prereq: instr consent)  
48999 001 IND, In Person Term Based; Tiffany Ralston; 1-4 cr.

**8200 Seminar: Transportation**

(S-N or Audit; )  
50775 001 LEC, 11:15-12:05 F, Civil Engineering Bldg 202, In Person Term Based; David Levinson; 1 cr.

**8202 Networks and Places: Transportation, Land Use, and Design**

(A-F or Audit; )  
68096 001 LAB, In Person Term Based; 4 cr.

**8215 Transportation Data Analysis**

(Student Option; Prereq: [8210 or 8211], [STAT 5021 or equiv])  
68097 001 LEC, 9:45-11:00 MW, Civil Engineering Bldg 202, In Person Term Based; Gary Davis; 3 cr.

**8300 Seminar: Geomechanics**

(S-N or Audit; )  
48856 001 LEC, 11:15-12:05 F, Civil Engineering Bldg 214, In Person Term Based; Sofia Mogilevska; 1-3 cr.

**8321 Thermoporoelasticity**

(A-F or Audit; Prereq: CSE grad student, 5321 or GeoE 5321 or instr consent)  
68091 001 LEC, 9:45-11:00 TTh, Civil Engineering Bldg 194, In Person Term Based; Emmanuel Detournay; 4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49099 001 IND, In Person Term Based; Tiffany Ralston; 1 cr.

**8336 Boundary Element Methods I**

(A-F or Audit; Prereq: CSE grad student)  
69117 001 LEC, 14:30-15:45 MW, , In Person Term Based; Tiffany Ralston; 3 cr.

**8351 Analytical modeling in Civil Engineering**

(A-F or Audit; Prereq: [4351 or GeoE 4351], [CSE grad student or instr consent])  
68107 001 LEC, 11:15-12:30 TTh, Civil Engineering Bldg 205, In Person Term Based; Otto Strack; 3 cr.

**8400 Seminar: Structures**

(S-N or Audit; )  
46755 001 LEC, 9:05- 9:55 F, Civil Engineering Bldg 205, In Person Term Based; Dominik Schillinger; 1 cr.

**8401 Fundamentals of Finite Element Method**

(A-F or Audit; Prereq: 4411 or instr consent)  
68108 001 LEC, 16:40-17:55 TTh, Civil Engineering Bldg 205, In Person Term Based; Henryk Stolarski; 3 cr.

**8413 Fracture and Scaling**

(A-F or Audit; Prereq: 5411)  
68109 001 LEC, 14:30-15:45 MW, Civil Engineering Bldg 202, In Person Term Based; Tiffany Ralston; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49199 001 IND, In Person Term Based; Tiffany Ralston; 1 cr.

**8500 Environmental Seminar**

(S-N or Audit; Prereq: grad CE major or instr consent)  
47376 001 LEC, 13:00-13:50 F, Civil Engineering Bldg 210, In Person Term Based; Tiffany Ralston; 1 cr.

**8504 Theory of Unit Operations**

(A-F or Audit; Prereq: 5541)  
68086 001 LEC, 9:45-11:00 MW, Civil Engineering Bldg 205, In Person Term Based; Santiago Romero Vargas Castrillon; 4 cr.

**8507 Advanced Methods in Hydrology**

(A-F or Audit; Prereq: 8506)  
68101 001 LEC, 13:25-15:20 TTh, Civil Engineering Bldg 194, In Person Term Based; Efi Foufoula; 4 cr.

**8553 Biofilms**

(A-F or Audit; Prereq: 4551 or instr consent)  
68087 001 LEC, 14:30-15:45 TTh, Civil Engineering Bldg 205, In Person Term Based; Raymond Hozalski; 3 cr.

**8572 Computational Environmental Fluid Dynamics**

(A-F or Audit; Prereq: grad student in CSE or COAFES or instr consent)  
68102 001 LEC, 13:00-15:30 Th, Room TBA, In Person Term Based; Fotis Sotiropoulos; 4 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49288 001 IND, In Person Term Based; Tiffany Ralston; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49388 001 IND, In Person Term Based; Tiffany Ralston; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49515 001 IND, In Person Term Based; Tiffany Ralston; 1-24 cr.

**Classical and Near Eastern Std (CNES)****1003 World of Rome**

(Student Option; HIS)  
56991 001 LEC, 12:20-13:10 MWF, Nicholson Hall 155, In Person Term Based; Stephen Smith; 3 cr.

**1042 Greek and Roman Mythology**

(Student Option; AH)  
54061 005 DIS, 9:45-11:00 Th, Nicholson Hall 115, In Person Term Based; Aaron Thompson; 4 cr.  
52989 004 DIS, 9:45-11:00 T, Nicholson Hall 115, In Person Term Based; Aaron Thompson; 4 cr.  
52988 003 DIS, 8:15- 9:30 Th, Nicholson Hall 355, In Person Term Based; Aaron Thompson; 4 cr.  
52351 001 LEC, 11:15-12:05 MF, Fraser Hall 102, In Person Term Based; Meets With: 001 CNES 1042H; Spencer Cole; 4 cr.  
52990 002 DIS, 8:15- 9:30 T, Nicholson Hall 355, In Person Term Based; Aaron Thompson; 4 cr.

**1042H Honors Course: Greek and Roman Mythology**

(A-F only; AH)  
52355 001 LEC, 11:15-12:05 MF, Fraser Hall 102, In Person Term Based; Meets With: 001 CNES 1042; Spencer Cole; 4 cr.  
52356 002 DIS, 11:15-12:30 W, Civil Engineering Bldg 213, In Person Term Based; Spencer Cole; 4 cr.

**1082 Jesus in History**

(Student Option; )  
60419 001 LEC, 13:25-14:15 WF, Rapson Hall 45, In Person Term Based; Meets With: 001 CNES 1082H001 RELS 1082001 RELS 1082H; Stephen Ahearne-Kroll; 3 cr.  
60421 003 DIS, 13:25-14:15 M, Nicholson Hall 120, In Person Term Based; Meets With: 003 RELS 1082; Aaron Thompson; 3 cr.  
60420 002 DIS, 13:25-14:15 M, Nicholson Hall 315, In Person Term Based; Meets With: 002 RELS 1082; Aaron Thompson; 3 cr.

**1082H Honors Course: Jesus in History**

(A-F only; Prereq: Honors)  
68528 001 LEC, 13:25-14:15 WF, Rapson Hall 45, In Person Term Based; Meets With: 001 CNES 1082001 RELS 1082001 RELS 1082H; Stephen Ahearne-Kroll; 4 cr.  
68530 002 DIS, 13:25-14:15 M, Bruininks Hall 119, In Person Term Based; Meets With: 002 RELS 1082H; Stephen Ahearne-Kroll; 4 cr.

**3081W Classical Epic in Translation**

(Student Option; LITR,WI)  
68549 001 DIS, 13:00-14:15 TTh, Nicholson Hall 315, In Person Term Based; Nita Krevans; 3 cr.

**3103 Ancient Greece: Alexander and the East**

(Student Option; HIS)  
68552 001 LEC, 14:30-15:45 TTh, Nicholson Hall 110, In Person Term Based; Pat Ahearne-Kroll; 3 cr.

**3202 Prophecy in Ancient Israel**

(Student Option; Prereq: 1201 or 3201 or RELS 1001)  
68553 001 LEC, 14:30-15:45 MW, Rapson Hall 13, In Person Term Based; Meets With: 001 RELS 3202001 JWST 3202; Hanne Levinson; 3 cr.

**3951W Major Project**

(Student Option; Prereq: Three 3xxx ANE courses, [major in ANE or CNEA or ReIS], instr consentWI)  
55770 002 IND, In Person Term Based; Andrew Gallia; 4 cr.  
55772 004 IND, In Person Term Based; Bernard Levinson; 4 cr.  
55773 005 IND, In Person Term Based; Christopher Nappa; 4 cr.  
55777 009 IND, In Person Term Based; George Sheets; 4 cr.  
68548 014 IND, In Person Term Based; Hanne Levinson; 4 cr.  
55780 011 IND, In Person Term Based; Matthew Canepa; 4 cr.  
55771 003 IND, In Person Term Based; Nita Krevans; 4 cr.  
55774 006 IND, In Person Term Based; Oliver Nicholson; 4 cr.  
68547 013 IND, In Person Term Based; Pat Ahearne-Kroll; 4 cr.  
55776 008 IND, In Person Term Based; Philip Sellow; 4 cr.  
55775 007 IND, In Person Term Based; Renana Schneller; 4 cr.  
47872 001 IND, In Person Term Based; Spencer Cole; 4 cr.  
56038 012 IND, In Person Term Based; Stephen Ahearne-Kroll; 4 cr.  
55778 010 IND, In Person Term Based; Stephen Smith; 4 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent)  
52875 001 IND, In Person Term Based; 1-4 cr.

**5796 Classical Texts: Approaches and Methods**

(Student Option; Prereq: CNES grad student or instr consent)  
68556 001 DIS, 13:00-14:15 TTh, Civil Engineering Bldg 214, In Person Term Based; Christopher Nappa; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq:instr consent, dept consent, college consent.)  
52795 001 IND, In Person Term Based; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq:instr consent, dept consent, college consent.)  
52796 001 IND, In Person Term Based; 1-12 cr.

**5996 Directed Instruction**

(Student Option; Prereq:instr consent, dept consent, college consent.)  
52797 001 IND, In Person Term Based; 1-12 cr.

**8190 Seminar: Issues in Ancient Art and Archaeology**

(Student Option; )  
60424 001 LEC, 13:00-16:00 W, Nicholson Hall 110, In Person Term Based; Stephen Ahearne-Kroll; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
52798 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
52799 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
52800 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))  
52801 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credits: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
52802 001 IND, In Person Term Based; 1-24 cr.

**8950 Topics in Classical & Near Eastern Studies**

(Student Option; )  
68557 001 LEC, 14:30-17:00 T, Nicholson Hall 115, In Person Term Based; Hanne Levinson; 3 cr.

**Cognitive Science (CGSC)****8000 Seminar: Philosophy of the Cognitive Sciences**

(Student Option; Prereq: Grad cog sci minor or instr consent)  
53797 001 LEC, 13:00-16:00 W, Elliott Hall N119, In Person Term Based; C Savage; 3 cr.

**8410 Perspectives in Learning, Perception, and Cognition**

(S-N only; )  
53319 001 LEC, 16:00-17:30 Th, Elliott Hall N647, In Person Term Based; Celia Gershenson; 2 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer, 24 cr required)  
58214 001 IND, In Person Term Based; 1-24 cr.

**Col of Food, Agr & Nat Res Sci (CFAN)****1501 Biotechnology, People, and the Environment**

(A-F or Audit; TS)  
47797 001 LEC, 11:45-12:35 MWF, Ruttan Hall B25, In Person Term Based; Nevin Young; 3 cr.

**1901 Topics: Freshman Seminar**

(A-F or Audit; Prereq: freshmanENV)  
60800 001 LEC, 13:00-15:00 Th, Skok Hall 100, In Person Term Based; Jim Perry; 1-3 cr.

**1902 Topics: Freshman Seminar**

(Student Option; Prereq: freshmanDSJ)  
54948 001 LEC, 15:00-18:00 T, Coffey Hall 120, In Person Term Based; Mark Bellcourt; 3 cr.

**2201 Secure & Succeed in Internships**

(A-F only; )  
59268 001 LEC, 11:45-12:35 TTh, McNeal Hall 146, In Person Term Based; Paul Zheng; 2 cr.

**3000 Directed Studies in International Agriculture**

(A-F or Audit; Prereq: instr consent)  
48448 001 LEC, In Person Term Based; Paul Porter; 2-4 cr.

**3001 Pests and Crop Protection**

(A-F or Audit; Prereq: Biol 1009 or equiv or instr consent)  
49869 001 LEC, 8:30-9:20 MW, Plant Growth Facility 132, In Person Term Based; Brian Steffenson; 3 cr.  
49870 002 LAB, 8:30-10:25 F, Plant Growth Facility 132, In Person Term Based; Brian Steffenson; 3 cr.

**3096 Making the Most of your Internship**

(A-F only; Prereq: Secured internship, instr consent)  
59510 001 LEC, 13:55-16:25 F, McNeal Hall 146, In Person Term Based; Kimberly Strauss Johnson; 1 cr.  
59511 002 LEC, 16:05-18:35 T, Peters Hall 145, In Person Term Based; Kimberly Strauss Johnson; 1 cr.

**3201 Career and Internship Preparation**

(A-F only; Prereq: Soph or jr or sr or grad student)  
58001 003 LEC, 16:05-16:55 T, Ruttan Hall B35, In Person Term Based; Meets With: 003 ICP 3201; Paul Zheng; 1 cr.  
53627 001 LEC, 11:45-12:35 T, Ruttan Hall B25, In Person Term Based; Meets With: 001 ICP 3201; Paul Zheng; 1 cr.

**3500 International Field Studies Seminar**

(A-F or Audit; Prereq: instr consent)  
60996 001 LEC, In Person Term Based; 1-3 cr.  
59479 504 LEC, Study Abroad; Mark Bellcourt; 1-3 cr.

**3501 Costa Rica--Sustainable Development**

(A-F or Audit; Prereq: instr consentGP)  
59601 504 LEC, Study Abroad; Cynthia Messer; 3 cr.

**3504 Vertebrate Research Design and Field Survey Techniques**

(A-F or Audit; Prereq: instr consentGP)  
59603 504 LEC, Study Abroad; James Smith; 3 cr.

**3900 Topics in International Agriculture**

(A-F or Audit; Prereq: instr consent)  
51700 001 IND, In Person Term Based; 1-4 cr.

**5201 Career and Job Search Preparation for Graduate Students**

(S-N only; Prereq: Grad student)  
56883 001 LEC, 17:15-18:30 T, Ruttan Hall 143, In Person Term Based; Meets With: 001 APS 5201001 DES 5201; 1 cr.

**Coll of Science, Engineering (CSE)****1 Fundamentals of Engineering Review (E.I.T. Refresher)**

(S-N or Audit; Prereq: Bachelor's degree in engineering)  
48994 001 LEC, 18:00-21:00 T, ONLINE, Completely Online; Daniel Nordell; 0 cr.

**1002 CSE First Year Global Seminar - Taking CSE 1001 International!**

(A-F only; Prerequisites: prereq: 1001)

60172 506 LEC, Study Abroad; 1-2 cr.  
60197 507 LEC, Study Abroad; 1-2 cr.  
60198 508 LEC, Study Abroad; 1-2 cr.  
60199 509 LEC, Study Abroad; 1-2 cr.  
60200 510 LEC, Study Abroad; 1-2 cr.  
60160 501 LEC, Study Abroad; 1-2 cr.  
60161 502 LEC, Study Abroad; 1-2 cr.  
60162 503 LEC, Study Abroad; 1-2 cr.  
60163 504 LEC, Study Abroad; 1-2 cr.  
60164 505 LEC, Study Abroad; 1-2 cr.

**1101 Environmental Issues and Solutions**

(Student Option; Prereq: High school chemistry or equiv, one yr high school algebraENV,PHYS)  
48926 001 LEC, 11:15-12:30 TTh, Vincent Hall 16, In Person Term Based; Miki Hondzo; 4 cr.  
58485 006 LAB, 13:00-16:00 W, Civil Engineering Bldg 650, In Person Term Based; Miki Hondzo; 4 cr.  
53403 005 LAB, 9:00-12:00 W, Civil Engineering Bldg 650, In Person Term Based; Miki Hondzo; 4 cr.  
48927 002 LAB, 9:00-12:00 M, Civil Engineering Bldg 650, In Person Term Based; Miki Hondzo; 4 cr.  
48928 003 LAB, 13:00-16:00 M, Civil Engineering Bldg 650, In Person Term Based; Miki Hondzo; 4 cr.  
48929 004 LAB, 13:00-16:00 T, Civil Engineering Bldg 650, In Person Term Based; Miki Hondzo; 4 cr.

**1311 Engineering Basics**

(A-F only; )  
53279 001 LEC, 13:00-14:15 TTh, Amundson Hall 116, In Person Term Based; Paul Imbertson; 2 cr.

**1511 Introduction to Engineering Design**

(S-N only; )  
54993 800 LAB, In Person Term Based; Susan Kubitschek; 3 cr.

**1512 Principles of Engineering**

(S-N only; )  
54994 800 LAB, In Person Term Based; Susan Kubitschek; 3 cr.

**1513 Digital Electronics**

(S-N only; )  
54995 800 LAB, In Person Term Based; Susan Kubitschek; 3 cr.

**1514 Computer Integrated Manufacturing**

(S-N only; )  
54996 800 LAB, In Person Term Based; Susan Kubitschek; 3 cr.

**1515 Overview of Civil Engineering and Architecture**

(S-N only; )  
54997 800 LAB, In Person Term Based; Susan Kubitschek; 3 cr.

**College of Liberal Arts (CLA)****1002 CLA First-Year Experience II**

(S-N only; Prereq: CLA)  
58033 001 LEC, Completely Online; Marissa Smith; 1 cr.

**1011 CLA First-Year Experience Abroad**

(A-F only; Prereq: CLA and FRFY)  
59065 001 LEC, In Person Term Based; Paul Spangle; 2 cr.

**2005 Introduction to Liberal Education and Responsible Citizenship**

(A-F only; Prereq: 1005)  
54982 005 DIS, 11:15-12:30 W, Akerman Hall 215, In Person Term Based; Andrew Williams; 3 cr.  
54983 006 DIS, 11:15-12:30 W, Akerman Hall 313, In Person Term Based; Andrew Williams; 3 cr.  
54985 008 DIS, 11:15-12:30 W, Amundson Hall 120, In Person Term Based; Andrew Williams; 3 cr.  
54984 007 DIS, 11:15-12:30 W, Amundson Hall 124, In Person Term Based; Andrew Williams; 3 cr.  
54981 004 DIS, 11:15-12:30 W, Amundson Hall 162, In Person Term Based; Andrew Williams; 3 cr.  
54980 003 DIS, 11:15-12:30 W, Nicholson Hall 125, In Person Term Based; Leah Milojevic; 3 cr.  
54978 001 LEC, 11:15-12:30 M, Blegen Hall 5, In Person Term Based; Andrew Williams; 3 cr.  
54979 002 DIS, 11:15-12:30 W, Amundson Hall 156, In Person Term Based; Andrew Williams; 3 cr.  
54986 009 DIS, 11:15-12:30 W, Burton Hall 123, In Person Term Based; Andrew Williams; 3 cr.

**3500 Topics**

(Student Option; )  
61023 504 LEC, Study Abroad; Angie Schmidt Whitney; 1-4 cr.

**3600 The Renaissance**

(Student Option; )  
57555 001 LEC, In Person Term Based; 3 cr.  
57556 002 DIS, In Person Term Based; 3 cr.

**Communication Studies (COMM)****1101 Introduction to Public Speaking**

(Student Option; CIV)  
68773 701 LEC, In Person Term Based; 3 cr.  
57082 026 LEC, 12:50-13:40 MWF, Ruttan Hall B22, In Person Term Based; 3 cr.  
67500 027 LEC, 18:00-21:00 M, Ford Hall B29, In Person Term Based; 3 cr.  
54054 024 LEC, 9:35-10:25 MWF, Ruttan Hall B22, In Person Term Based; 3 cr.  
54052 025 LEC, 10:40-11:30 MWF, Ruttan Hall B22, In Person Term Based; 3 cr.  
53442 020 LEC, 14:30-15:45 MW, Ford Hall B10, In Person Term Based; 3 cr.  
50370 011 LEC, 11:15-12:30 TTh, Ford Hall 127, In Person Term Based; 3 cr.

50374 015 LEC, 13:00-14:15 TTh, Ford Hall 127, In Person Term Based; 3 cr.  
55202 019 LEC, 14:30-15:45 TTh, Ford Hall 127, In Person Term Based; 3 cr.  
54049 022 LEC, 14:30-15:45 MW, Ford Hall 127, In Person Term Based; 3 cr.  
54051 003 LEC, 8:15- 9:30 TTh, Ford Hall 151, In Person Term Based; 3 cr.  
50363 004 LEC, 8:15- 9:30 TTh, Ford Hall B10, In Person Term Based; 3 cr.  
50368 009 LEC, 11:15-12:30 TTh, Ford Hall B10, In Person Term Based; 3 cr.  
50376 017 LEC, 14:30-15:45 TTh, Ford Hall B10, In Person Term Based; 3 cr.  
50364 005 LEC, 8:15- 9:30 TTh, Ford Hall B15, In Person Term Based; 3 cr.  
50377 018 LEC, 14:30-15:45 TTh, Ford Hall B15, In Person Term Based; 3 cr.  
54053 021 LEC, 14:30-15:45 MW, Ford Hall B15, In Person Term Based; 3 cr.  
50365 006 LEC, 8:15- 9:30 MW, Ford Hall B29, In Person Term Based; 3 cr.  
54050 023 LEC, 14:30-15:45 MW, Ford Hall B80, In Person Term Based; 3 cr.  
50372 013 LEC, 12:20-13:10 MWF, Ford Hall 115, In Person Term Based; 3 cr.  
50371 012 LEC, 12:20-13:10 MWF, Ford Hall 130, In Person Term Based; 3 cr.  
50375 016 LEC, 14:30-15:45 MW, Ford Hall 151, In Person Term Based; 3 cr.  
50369 010 LEC, 11:15-12:30 TTh, Ford Hall B15, In Person Term Based; 3 cr.  
50362 002 LEC, 8:15- 9:30 MW, Ford Hall B80, In Person Term Based; 3 cr.  
50361 001 LEC, 8:15- 9:30 MW, Ford Hall 151, In Person Term Based; 3 cr.  
50367 008 LEC, 11:15-12:30 TTh, Ford Hall 151, In Person Term Based; 3 cr.  
50366 007 LEC, 9:45-11:00 TTh, Ford Hall B80, In Person Term Based; 3 cr.  
50373 014 LEC, 13:00-14:15 MW, Ford Hall B80, In Person Term Based; 3 cr.  
68772 700 LEC, In Person Term Based; Carmen Barbone; 3 cr.  
68775 703 LEC, In Person Term Based; Carmen Barbone; 3 cr.  
68779 707 LEC, In Person Term Based; Carmen Barbone; 3 cr.  
68776 704 LEC, In Person Term Based; David Russell Larson; 3 cr.  
68777 705 LEC, In Person Term Based; David Russell Larson; 3 cr.  
68778 706 LEC, In Person Term Based; Jory Magel; 3 cr.  
68937 708 LEC, In Person Term Based; Kellii Donais; 3 cr.  
68938 709 LEC, In Person Term Based; Kellii Donais; 3 cr.  
68774 702 LEC, In Person Term Based; Megan Vetter; 3 cr.  
68939 710 LEC, In Person Term Based; Michelle Dyrhaug; 3 cr.

**1101H Honors: Introduction to Public Speaking**

(A-F only; Prereq: HonorsCIV)  
55530 001 LEC, 9:45-11:00 TTh, Ford Hall B10, In Person Term Based; 3 cr.  
56493 002 LEC, 16:00-17:15 TTh, Ford Hall B15, In Person Term Based; 3 cr.

**1313W Analysis of Argument**

(Student Option; WI)  
67502 011 LEC, 16:00-17:15 MW, Ford Hall B29, In Person Term Based; 3 cr.  
67833 012 LEC, 18:00-21:00 W, Ford Hall B53, In Person Term Based; 3 cr.  
50381 004 LEC, 12:20-13:10 MWF, Ford Hall 110, In Person Term Based; 3 cr.  
50383 006 LEC, 8:15- 9:30 TTh, Ford Hall 127, In Person Term Based; 3 cr.  
50379 002 LEC, 9:05- 9:55 MWF, Ford Hall 127, In Person Term Based; 3 cr.  
50382 005 LEC, 12:20-13:10 MWF, Ford Hall 151, In Person Term Based; 3 cr.  
50378 001 LEC, 8:00- 8:50 MWF, Ford Hall B10, In Person Term Based; 3 cr.  
50384 007 LEC, 11:15-12:30 TTh, Ford Hall B29, In Person Term Based; 3 cr.  
50380 003 LEC, 11:15-12:30 TTh, Ford Hall B80, In Person Term Based; 3 cr.  
53443 009 LEC, 13:00-14:15 TTh, Ford Hall B80, In Person Term Based; 3 cr.  
54899 010 LEC, 16:00-17:15 MW, Ford Hall B80, In Person Term Based; 3 cr.  
51559 008 LEC, 16:00-17:15 MW, Ford Hall 127, In Person Term Based; David Helwich; 3 cr.

**1905 Freshman Seminar**

(A-F or Audit; Prereq: Fr)  
65531 001 LEC, 9:45-11:00 TTh, Smith Hall 121, In Person Term Based; Laurie Ouellette; 3 cr.

**3190H Honors Course: Research Seminar in Communication**

(A-F only; Prereq: Honors candidate in comm, instr consent, dept consent)  
55141 001 IND, In Person Term Based; Ascan Koerner; 3 cr.

**3201 Introduction to Electronic Media Production**

(A-F or Audit; )  
50386 002 LAB, 10:10-12:05 Th, Rarig Center Studio E, 10:10-12:05 T, Ford Hall B60, In Person Term Based; 3-4 cr.  
54292 006 LAB, 10:10-12:05 W, Rarig Center Studio E, 10:10-12:05 M, Ford Hall B60, In Person Term Based; 3-4 cr.  
51043 004 LAB, 13:25-15:20 W, Rarig Center Studio E, 13:25-15:20 M, Ford Hall B60, In Person Term Based; 3-4 cr.  
54511 007 LAB, 8:00- 9:55 Th, Ford Hall B60, 8:00- 9:55 T, Rarig Center Studio E, In Person Term Based; 3-4 cr.  
50385 001 LAB, 10:10-12:05 Th, Ford Hall B60, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; 3-4 cr.  
53444 005 LAB, 10:10-12:05 W, Ford Hall B60, 10:10-12:05 M, Rarig Center Studio E, In Person Term Based; 3-4 cr.  
55218 003 LAB, 13:25-15:20 W, Ford Hall B60, 13:25-15:20 M, Rarig Center Studio E, In Person Term Based; 3-4 cr.

**3204 Advanced Electronic Media Production**

(A-F or Audit; Prereq: 3201 or instr consent)  
51133 001 LAB, 10:10-12:05 TTh, Rarig Center Studio B, In Person Term Based; Mark Neuman-Scott; 4 cr.  
54289 002 LAB, 13:25-15:20 MW, Rarig Center Studio B, In Person Term Based; Mark Neuman-Scott; 4 cr.

**3211 Introduction to U.S. Electronic Media**

(Student Option; )  
50387 001 LEC, 13:00-14:15 TTh, Anderson Hall 310, In Person Term Based; 3 cr.

**3263W Media Literacy: Decoding Media Images and Messages**

(A-F only; WI)  
54534 003 LEC, 13:25-14:15 MWF, Ford Hall 127, In Person Term Based; 3 cr.  
54375 001 LEC, 8:00- 8:50 MWF, Ford Hall B15, In Person Term Based; 3 cr.  
54467 002 LEC, 12:20-13:10 MWF, Ford Hall B15, In Person Term Based; 3 cr.  
54535 004 LEC, 16:00-17:15 TTh, Ford Hall B80, In Person Term Based; 3 cr.

**3401 Introduction to Communication Theory**

(Student Option; )  
67505 001 LEC, 9:45-11:00 MW, Ford Hall B29, In Person Term Based; Dean Hewes; 3 cr.  
54753 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 3 cr.

**3402 Introduction to Interpersonal Communication**

(Student Option; )  
59764 001 LEC, 9:45-11:00 MW, Armory Building 202, In Person Term Based; Susanne Jones; 3 cr.

**3411 Introduction to Small Group Communication**

(Student Option; )  
55219 004 LEC, 10:15-11:30 MW, Magrath Library 8, In Person Term Based; 3 cr.  
50390 001 LEC, 8:00- 8:50 MWF, Ford Hall 127, In Person Term Based; 3 cr.  
50393 005 LEC, 16:00-17:15 TTh, Ford Hall B29, In Person Term Based; 3 cr.  
50394 006 LEC, 18:00-21:00 T, Ford Hall B29, In Person Term Based; 3 cr.  
50391 002 LEC, 9:05- 9:55 MWF, Blegen Hall 210, In Person Term Based; 3 cr.  
50392 003 LEC, 12:20-13:10 MWF, Ford Hall 127, In Person Term Based; 3 cr.

**3422 Interviewing and Communication**

(A-F or Audit; )  
50396 002 LEC, 9:45-11:00 TTh, Ford Hall B29, In Person Term Based; 3 cr.  
53446 003 LEC, 11:15-12:05 MWF, Ford Hall B29, In Person Term Based; 3 cr.

61295 004 LEC, 14:30-15:45 TTh, Ford Hall B29, In Person Term Based; ; 3 cr.  
50395 001 LEC, 8:15- 9:30 TTh, Ford Hall B80, In Person Term Based; ; 3 cr.

### 3431 Persuasion Theories

(Student Option; Prereq: Soph recommended)  
50397 001 LEC, 8:15- 9:30 TTh, Keller Hall 3-111, In Person Term Based; Jeremy Rose; 3 cr.

### 3601 Introduction to Rhetorical Theory

(Student Option; )  
50398 001 LEC, 10:10-11:00 MWF, Willey Hall 175, In Person Term Based; ; 3 cr.

### 3605W Persuasive Speaking and Speech Writing

(Student Option; Prereq: 1101, sophWI)  
59310 001 LEC, 11:15-12:30 TTh, Folwell Hall 12, In Person Term Based; ; 3 cr.

### 3615 Argumentation

(Student Option; Prereq: Soph)  
61605 001 LEC, In Person Term Based; 3 cr.

### 3625 Communication Ethics

(A-F or Audit; )  
50399 001 LEC, 8:15- 9:30 TTh, Ford Hall B29, In Person Term Based; ; 3 cr.

### 3631 Freedom of Speech

(Student Option; CIV)  
57635 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 18, In Person Term Based; ; 3 cr.

### 3645W How Pictures Persuade

(A-F only; WI)  
57597 001 LEC, 11:15-12:30 MW, Ford Hall B10, In Person Term Based; ; 3 cr.

### 3970 Directed Study

(Student Option; Prereq-One Comm course, instr consent, dept consent, college consent.)  
50400 001 IND, In Person Term Based; ; 1-3 cr.  
59508 002 IND, In Person Term Based; Ascan Koerner; 1-3 cr.

### 3980 Directed Instruction

(S-N or Audit; Prereq: instr consent, dept consent)  
50401 001 FWK, In Person Term Based; ; 3 cr.

### 3990 Research Practicum

(Student Option; )  
50766 001 FWK, In Person Term Based; Susanne Jones; 1-3 cr.

### 3995W Major Project

(S-N or Audit; Prereq: Comm major, instr consentWI)  
68850 007 IND, In Person Term Based; Ascan Koerner; 1-3 cr.  
68845 002 IND, In Person Term Based; Catherine Squires; 1-3 cr.  
68848 005 IND, In Person Term Based; Catherine Squires; 1-3 cr.  
68852 009 IND, In Person Term Based; Dean Hewes; 1-3 cr.  
68846 003 IND, In Person Term Based; Gilbert Rodman; 1-3 cr.  
68854 011 IND, In Person Term Based; Jeremy Rose; 1-3 cr.  
68847 004 IND, In Person Term Based; Jeremy Rose; 1-3 cr.  
68855 012 IND, In Person Term Based; Karlyn Campbell; 1-3 cr.  
68849 006 IND, In Person Term Based; Karlyn Campbell; 1-3 cr.  
50476 001 IND, In Person Term Based; Mari Pajala; 1-3 cr.  
68851 008 IND, In Person Term Based; Mark Pedelty; 1-3 cr.  
68853 010 IND, In Person Term Based; Stephanie Galarneault; 1-3 cr.

### 4245 Critical Television Studies

(Student Option; Prereq: 3211)  
59676 001 LEC, 9:45-11:00 MW, Bruininks Hall 420B, In Person Term Based; ; 3 cr.

### 4263 Feminist Media Studies

(A-F only; Prereq: 3211 or instr consentDSJ)  
58868 001 LEC, 13:00-14:15 MW, Murphy Hall 228, In Person Term Based; Catherine Squires; 3 cr.

### 4291 New Telecommunication Media

(A-F or Audit; Prereq: 3211 or instr consent)  
61606 001 LEC, 11:15-12:30 TTh, Bruininks Hall 420A, In Person Term Based; Gilbert Rodman; 3 cr.

### 4471 Communication in Marriage and Family

(Student Option; Prereq: 3401 or 3402 or instr consent)  
55008 001 LEC, 9:45-11:00 TTh, Ford Hall B15, In Person Term Based; ; 3 cr.

### 4616 African American Civil Rights

Rhetoric  
(Student Option; Prereq: Jr)  
60610 001 LEC, 9:45-11:00 MW, Ford Hall B53, In Person Term Based; Catherine Squires; 3 cr.

### 4621W Rhetoric of Feminism

(Student Option; DSJ,WI)  
59763 001 LEC, 14:30-15:45 TTh, Folwell Hall 116, In Person Term Based; Karlyn Campbell; 3 cr.

### 5110 Special Topics in Communication

Theory  
(Student Option; )  
61596 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 212, In Person Term Based; Susanne Jones; 3 cr.

### 5250 Environmental Communication

(A-F only; )  
59675 001 LEC, Completely Online; 3 cr.

### 5401 Advanced Theories of Communication

(Student Option; Prereq: 3401 or grad)  
61594 001 LEC, 13:00-14:15 MW, Ford Hall B29, In Person Term Based; Dean Hewes; 3 cr.

### 5441 Communication in Human Organizations

(Student Option; )  
67490 002 LEC, 18:00-21:00 T, Ford Hall B60, In Person Term Based; 3 cr.  
53450 001 LEC, 18:00-21:00 W, Ford Hall B29, In Person Term Based; Stephanie Galarneault; 3 cr.  
50443 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 3 cr.

### 5615W Introduction to Rhetorical Criticism

(Student Option; Prereq: 1101; 3601 recommendedWI)  
50402 001 LEC, 14:30-15:45 MW, Ford Hall B29, In Person Term Based; Karlyn Campbell; 3 cr.

### 5970 Directed Study

(S-N or Audit; Prereq-Nine 3xxx-5xxx Spch cr, instr consent, dept consent, college consent.)  
50403 001 IND, In Person Term Based; ; 1-3 cr.

### 5994 Communication Research Practicum

(S-N or Audit; Prereq: instr consent)  
50544 001 IND, In Person Term Based; ; 1-3 cr.

### 8110 Seminar: Advanced Speech Problems

(Student Option; Prereq: undergrad degree in spch-comm or equiv)  
68856 001 LEC, 13:25-16:25 M, Lind Hall 216, In Person Term Based; Susanne Jones; 3 cr.

### 8210 Seminar: Selected Topics in U.S.

Electronic Media  
(Student Option; Prereq: 5210 or instr consent; offered when feasible)  
61608 001 LEC, In Person Term Based; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
50404 001 IND, In Person Term Based; ; 1 cr.

### 8402 Seminar: Interpersonal Communication

(Student Option; Prereq: 5402 or instr consent)  
61604 001 LEC, 14:30-17:30 Th, Ford Hall 200, In Person Term Based; Ascan Koerner; 3 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
50405 001 IND, In Person Term Based; ; 1 cr.

### 8611 Seminar: Rhetoric

(Student Option; Prereq: 5611 or instr consent)  
59677 001 LEC, 14:30-17:00 T, Ford Hall 200, In Person Term Based; Ronald Greene; 3 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept

consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
50406 001 IND, In Person Term Based; ; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
50407 001 IND, In Person Term Based; ; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
50408 001 IND, In Person Term Based; ; 1-24 cr.

### 8994 Directed Research

(Student Option; )  
50545 001 FWK, In Person Term Based; ; 1-3 cr.

## Compar Study in Discourse/Soc (CSDS)

### 5555 Introduction to Semiotics

(Student Option; )  
68405 001 LEC, 13:30-16:30 W, Nicholson Hall 315, In Person Term Based; Meets With: 001 CSCL 5555001 CL 5555; Aaron Thompson; 3 cr.

### 5993 Directed Study

(Student Option; Prereq: instr consent)  
55449 001 IND, In Person Term Based; Aaron Thompson; 1-3 cr.

### 8002 Basic Research Seminar in Comparative Studies in Discourse and Society II

(Student Option; )  
47784 001 LEC, 13:30-16:30 M, Nicholson Hall 135, In Person Term Based; Meets With: 001 CL 8002; Thomas Pepper; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49107 001 IND, In Person Term Based; Aaron Thompson; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49206 001 IND, In Person Term Based; Aaron Thompson; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49295 001 IND, In Person Term Based; Aaron Thompson; 1-6 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49493 001 IND, In Person Term Based; Aaron Thompson; 1-24 cr.

### 8910 Advanced Topics in Comparative Studies in Discourse and Society

(Student Option; )  
57789 002 LEC, 17:30-20:00 T, Nicholson Hall 135, In Person Term Based; Meets With: 003 CL 8910; Michael Gallope; 3 cr.  
59590 001 LEC, 13:30-16:30 T, Nicholson Hall 135, In Person Term Based; Meets With: 002 CL 8910; Timothy Brennan; 3 cr.

### 8993 Directed Study in Comparative Studies in Discourse and Society

(Student Option; Prereq: instr consent)  
47566 001 IND, In Person Term Based; Aaron Thompson; 1-4 cr.

### 8994 Directed Research in Comparative Studies in Discourse and Society

(Student Option; Prereq: instr consent)  
48139 001 IND, In Person Term Based; Aaron Thompson; 1-4 cr.

**Comparative & Molecular Biosci  
(CMB)****5381 Pathogenesis of Infectious Zoonotic Diseases**

(A-F only; Prereq: [Microbiology, biochemistry] courses or instr consent)

67418 001 LEC, In Person Term Based; Yinduo Ji; 3 cr.

**5594 Directed Research in Comparative and Molecular Biosciences**

(Student Option; Prereq: Jr, instr consent)

53026 001 LAB, In Person Term Based; Lisa Hubinger; 1-4 cr.

**5910 Grantwriting: What Makes a Winning Proposal?**

(Student Option; )

60577 001 LEC, In Person Term Based; Mark Rutherford; 2 cr.

**8012 Basic Concepts in Skeletal Biology**

(A-F only; Prereq: CMB grad student or instr consent)

57917 001 LEC, In Person Term Based; Kim Mansky; 2 cr.

**8100 Research Rotation in Comparative and Molecular Biosciences**

(S-N only; Prereq: CMB grad student)

56820 001 ROT, In Person Term Based; Kent Reed; 1 cr.

**8303 Comparative Models of Disease**

(A-F only; Prereq: Enrollment in a biological sciences grad program or instr consent)

54485 001 LEC, 13:00-13:50 TTh, Animal Science / Vet Med 295M, In Person Term Based; John Collister; 2 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

53027 001 IND, In Person Term Based; 1 cr.

**8394 Research in Comparative Biomedical Sciences**

(Student Option; Prereq: Grad CMB major)

53028 001 IND, In Person Term Based; Lisa Hubinger; 1-6 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

53029 001 IND, In Person Term Based; 1 cr.

**8550 Comparative and Molecular Biosciences Seminar**

(S-N or Audit; Prereq: Biol sciences grad student)

53030 001 LEC, 9:00- 9:50 F., 12:00-13:00 Th., In Person Term Based; Meets With: 001 VMED 8550; Lisa Hubinger; 1 cr.

**8560 Research and Literature Reports**

(S-N or Audit; Prereq: Grad CMB major or instr consent)

53031 001 LEC, In Person Term Based; Lisa Hubinger; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

53032 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

53033 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

53034 001 IND, In Person Term Based; 1-24 cr.

**Comparative Literature (CL)****5555 Introduction to Semiotics**

(Student Option; )

68406 001 LEC, 13:30-16:30 W, Nicholson Hall 315, In Person Term Based; Meets With: 001 CSCS 5555/001 CSCS 5555; Aaron Thompson; 3 cr.

**5992 Directed Reading in Comparative Literature**

(Student Option; Prereq: instr consent)

47567 001 IND, In Person Term Based; Aaron Thompson; 1-3 cr.

**8002 Basic Research Seminar in Comparative Literature II**

(Student Option; )

47783 001 LEC, 13:30-16:30 M, Nicholson Hall 135, In Person Term Based; Meets With: 001 CSDS 8002; Thomas Pepper; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49103 001 IND, In Person Term Based; Aaron Thompson; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49203 001 IND, In Person Term Based; Aaron Thompson; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49292 001 IND, In Person Term Based; Aaron Thompson; 1-6 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49318 001 IND, In Person Term Based; Aaron Thompson; 1-24 cr.

**8910 Advanced Topics in Comparative Literature**

(Student Option; )

60224 003 LEC, 17:30-20:00 T, Nicholson Hall 135, In Person Term Based; Meets With: 002 CSDS 8910; Michael Gallope; 3 cr.

59563 002 LEC, 13:30-16:30 T, Nicholson Hall 135, In Person Term Based; Meets With: 001 CSDS 8910; Timothy Brennan; 3 cr.

**8992 Directed Reading in Comparative Literature**

(Student Option; Prereq: instr consent)

47565 001 IND, In Person Term Based; Aaron Thompson; 1-4 cr.

**8994 Directed Research in Comparative Literature**

(Student Option; Prereq: instr consent)

48138 001 IND, In Person Term Based; Aaron Thompson; 1-4 cr.

**Computer Engineering (CMPE)****8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49104 001 IND, In Person Term Based; 1 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49392 001 IND, In Person Term Based; 1-18 cr.

**Computer Science (CSCI)****1001 Overview of Computer Science**

(Student Option; Prereq: Non-CSci major, non-CompE major, non-EE major/MATH,TS)

52705 001 LEC, 11:15-12:05 MWF, Anderson Hall 370, In Person Term Based; Chris Dovolis; 4 cr.

52706 002 LAB, 12:20-14:15 M, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.

52707 003 LAB, 14:30-16:25 M, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.

56927 004 LAB, 16:40-18:35 M, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.

67654 005 LAB, 18:50-20:45 M, Keller Hall 1-262, In Person Term Based; Liz Freppert; 4 cr.

**1113 Introduction to C/C++ Programming for Scientists and Engineers**

(Student Option; Prereq: Math 1271 or Math 1371 or Math 1571H or instr consent)

60692 010 LEC, 16:00-17:15 MW, Bruininks Hall 114, In Person Term Based; ; 4 cr.

59046 012 LAB, 11:15-14:15 Th, Keller Hall 1-260, In Person Term Based; ; 4 cr.

59705 013 LAB, 14:30-17:30 Th, Keller Hall 1-260, In Person Term Based; ; 4 cr.

55881 011 LAB, 17:45-20:45 W, Keller Hall 1-260, In Person Term Based; ; 4 cr.

46623 020 LEC, 18:30-21:00 T, Bruininks Hall 114, In Person Term Based; Daniel Challou; 4 cr.

56928 023 LAB, 14:30-17:30 Th, Keller Hall 2-120, In Person Term Based; Daniel Challou; 4 cr.

46624 021 LAB, 14:30-17:30 W, Keller Hall 2-120, In Person Term Based; Daniel Challou; 4 cr.

59706 024 LAB, 17:45-20:45 Th, Keller Hall 2-120, In Person Term Based; Daniel Challou; 4 cr.

46625 022 LAB, 17:45-20:45 M, Keller Hall 2-120, In Person Term Based; Daniel Challou; 4 cr.

46617 001 LEC, 11:15-12:05 MWF, Keller Hall 3-210, In Person Term Based; James Parker; 4 cr.

46622 007 LAB, 12:20-15:20 W, Keller Hall 1-260, In Person Term Based; James Parker; 4 cr.

46619 004 LAB, 14:30-17:30 T, Keller Hall 1-260, In Person Term Based; James Parker; 4 cr.

46621 005 LAB, 17:45-20:45 Th, Keller Hall 1-260, In Person Term Based; James Parker; 4 cr.

52584 002 LAB, 17:45-20:45 M, Keller Hall 1-260, In Person Term Based; James Parker; 4 cr.

46620 006 LAB, 17:45-20:45 T, Keller Hall 2-120, In Person Term Based; James Parker; 4 cr.

46618 003 LAB, 17:45-20:45 M, Keller Hall 2-120, In Person Term Based; James Parker; 4 cr.

65478 008 LAB, 8:00-11:00 Th, Keller Hall 1-260, In Person Term Based; Liz Freppert; 4 cr.

65477 014 LAB, 17:45-20:45 Th, Keller Hall 1-260, In Person Term Based; Liz Freppert; 4 cr.

**1133 Introduction to Computing and Programming Concepts**

(Student Option; Prereq: concurrent registration is required (or allowed) in MATH 1271 or concurrent registration is required (or allowed) in MATH 1371 or concurrent registration is required (or allowed) in MATH 1571H or instr consent)

68170 020 LEC, 10:10-11:00 MWF, Smith Hall 231, In Person Term Based; Lana Yarosh; 4 cr.

68171 021 LAB, 8:00- 9:55 Th, Keller Hall 2-120, In Person Term Based; Lana Yarosh; 4 cr.

68172 022 LAB, 10:10-12:05 Th, Keller Hall 2-120, In Person Term Based; Lana Yarosh; 4 cr.

68173 023 LAB, 12:20-14:15 Th, Keller Hall 2-120, In Person Term Based; Lana Yarosh; 4 cr.

59431 010 LEC, 18:30-21:00 W, Bruininks Hall 312, In Person Term Based; Steve Jensen; 4 cr.

58603 001 LEC, 10:10-11:00 MWF, Keller Hall 3-210, In Person Term Based; Steve Jensen; 4 cr.

58605 003 LAB, 8:00- 9:55 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

58606 004 LAB, 10:10-12:05 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

58607 005 LAB, 12:20-14:15 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

59432 011 LAB, 14:30-16:25 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

59433 012 LAB, 16:40-18:35 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

59924 013 LAB, 18:50-20:45 Th, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

58604 002 LAB, 18:50-20:45 W, Keller Hall 1-262, In Person Term Based; Steve Jensen; 4 cr.

**1913 Introduction to Algorithms, Data Structures, and Program Development**  
(Student Option; Prereq: (EE major and EE 1301) or (CompE major and EE 1301) or 1103 or 1113 or instr consent)

58600 001 LEC, 14:30-15:20 MWF, Bruininks Hall 230, In Person Term Based; James Moen; 4 cr.

58601 002 LAB, 8:00- 9:55 F, Keller Hall 1-260, In Person Term Based; James Moen; 4 cr.

58602 003 LAB, 10:10-12:05 F, Keller Hall 1-260, In Person Term Based; James Moen; 4 cr.

59707 004 LAB, 12:20-14:15 F, Keller Hall 1-260, In Person Term Based; James Moen; 4 cr.

65479 006 LAB, 12:20-14:15 F, Keller Hall 1-262, In Person Term Based; Liz Freppert; 4 cr.

61180 005 LAB, 10:10-12:05 F, Keller Hall 1-262, In Person Term Based; Liz Freppert; 4 cr.

**1933 Introduction to Algorithms and Data Structures**

**(Student Option; Prereq: 1133 or instr consent)**  
 59708 010 LEC, 18:30-21:00 W, Keller Hall 3-111, In Person Term Based; Chris Dovolis; 4 cr.  
 59437 001 LEC, 14:30-15:20 MWF, Keller Hall 3-210, In Person Term Based; Chris Dovolis; 4 cr.  
 59442 006 LAB, 8:00- 9:55 W, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59438 002 LAB, 8:00- 9:55 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59443 007 LAB, 10:10-12:05 W, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59439 003 LAB, 10:10-12:05 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59440 004 LAB, 12:20-14:15 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59441 005 LAB, 14:30-16:25 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59709 011 LAB, 16:40-18:35 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.  
 59710 012 LAB, 18:50-20:45 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis; 4 cr.

**2011 Discrete Structures of Computer Science**

**(Student Option; Prereq: MATH 1271 or MATH 1371 or instr consent)**  
 65481 010 LEC, 18:30-21:00 W, Keller Hall 3-230, In Person Term Based; Liz Freppert; 4 cr.  
 65482 011 DIS, 16:40-17:30 M, Keller Hall 2-260, In Person Term Based; Liz Freppert; 4 cr.  
 65483 012 DIS, 17:45-18:35 M, Keller Hall 2-260, In Person Term Based; Liz Freppert; 4 cr.  
 46626 001 LEC, 9:05- 9:55 MWF, Keller Hall 3-210, In Person Term Based; Rui Kuang; 4 cr.  
 53381 004 DIS, 10:10-11:00 T, Akerman Hall 225, In Person Term Based; Rui Kuang; 4 cr.  
 60067 007 DIS, 13:25-14:15 T, Amundson Hall 240, In Person Term Based; Rui Kuang; 4 cr.  
 46627 002 DIS, 8:00- 8:50 T, Keller Hall 2-260, In Person Term Based; Rui Kuang; 4 cr.  
 56935 005 DIS, 11:15-12:05 T, Molecular Cellular Biol 2-122, In Person Term Based; Rui Kuang; 4 cr.  
 57800 006 DIS, 12:20-13:10 T, Molecular Cellular Biol 2-122, In Person Term Based; Rui Kuang; 4 cr.  
 46628 003 DIS, 9:05- 9:55 T, Bruininks Hall 530B, In Person Term Based; Rui Kuang; 4 cr.

**2011H Honors Discrete Structures of Computer Science**

**(A-F only; Prereq: [MATH 1271 or MATH 1371 or MATH 1571H], honors student.)**  
 58598 001 LEC, 9:05- 9:55 MWF, Bruininks Hall 512A, In Person Term Based; Joseph Konstan; 4 cr.  
 58599 002 DIS, 9:05- 9:55 T, Bruininks Hall 432B, In Person Term Based; Joseph Konstan; 4 cr.

**2021 Machine Architecture and Organization**

**(Student Option; Prereq: 1913 or 1933 or instr consent)**  
 46629 001 LEC, 12:20-13:10 MWF, Keller Hall 3-210, In Person Term Based; Pen-Chung Yew; 4 cr.  
 46630 003 DIS, 9:05- 9:55 T, Amundson Hall 240, In Person Term Based; Pen-Chung Yew; 4 cr.  
 51749 002 DIS, 8:00- 8:50 Th, Keller Hall 2-260, In Person Term Based; Pen-Chung Yew; 4 cr.  
 46631 004 DIS, 10:10-11:00 Th, Bruininks Hall 512B, In Person Term Based; Pen-Chung Yew; 4 cr.  
 60471 010 LEC, 15:35-16:25 MWF, Keller Hall 3-210, In Person Term Based; Stephen McCamant; 4 cr.  
 67664 013 DIS, 13:25-14:15 Th, Amundson Hall 240, In Person Term Based; Stephen McCamant; 4 cr.  
 67662 011 DIS, 11:15-12:05 Th, Molecular Cellular Biol 2-120, In Person Term Based; Stephen McCamant; 4 cr.  
 67663 012 DIS, 12:20-13:10 Th, Molecular Cellular Biol 2-122, In Person Term Based; Stephen McCamant; 4 cr.  
 67665 014 DIS, 14:30-15:20 Th, Bruininks Hall 432B, In Person Term Based; Stephen McCamant; 4 cr.

**2033 Elementary Computational Linear Algebra**

**(Student Option; Prereq: [MATH 1271 or MATH 1371], [1113 or 1133 or knowledge of programming concepts])**  
 56060 001 LEC, 10:10-11:00 MWF, Keller Hall 3-230, In Person Term Based; Victoria Interrante; 4 cr.  
 56061 002 DIS, 10:10-11:00 T, Amundson Hall 240, In Person Term Based; Victoria Interrante; 4 cr.  
 56062 003 DIS, 11:15-12:05 T, Molecular Cellular Biol 2-120, In Person Term Based; Victoria Interrante; 4 cr.  
 56063 004 DIS, 12:20-13:10 T, Molecular Cellular Biol 2-120, In Person Term Based; Victoria Interrante; 4 cr.  
 68164 010 LEC, 16:00-17:15 MW, Vincent Hall 16, In Person Term Based; Yousef Saad; 4 cr.

68167 013 DIS, 16:40-17:30 T, Keller Hall 2-260, In Person Term Based; Yousef Saad; 4 cr.  
 68166 012 DIS, 15:35-16:25 T, Bruininks Hall 131A, In Person Term Based; Yousef Saad; 4 cr.  
 68165 011 DIS, 14:30-15:20 T, Bruininks Hall 432A, In Person Term Based; Yousef Saad; 4 cr.

**2041 Advanced Programming Principles**

**(Student Option; Prereq: [1913 or 1933], 2011)**  
 59717 001 LEC, 13:25-14:15 MWF, Bruininks Hall 230, In Person Term Based; Maria Gini; 4 cr.  
 59718 002 LAB, 9:05- 9:55 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.  
 59719 003 LAB, 10:10-11:00 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.  
 59720 004 LAB, 11:15-12:05 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.  
 59721 005 LAB, 12:20-13:10 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.  
 59722 006 LAB, 13:25-14:15 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.  
 59723 007 LAB, 14:30-15:20 T, Keller Hall 2-120, In Person Term Based; Maria Gini; 4 cr.

**3081W Program Design and Development**

**(Student Option; Prereq: [2021, 2041] or instr consentW)**  
 51192 001 LEC, 8:15- 9:30 TTh, Bruininks Hall 412, In Person Term Based; Daniel Keefe; 4 cr.  
 51193 002 DIS, 9:05- 9:55 F, Keller Hall 2-120, In Person Term Based; Daniel Keefe; 4 cr.  
 51194 003 DIS, 10:10-11:00 F, Keller Hall 2-120, In Person Term Based; Daniel Keefe; 4 cr.  
 55884 004 DIS, 11:15-12:05 F, Keller Hall 2-120, In Person Term Based; Daniel Keefe; 4 cr.  
 59929 010 LEC, 14:30-15:45 TTh, Bruininks Hall 312, In Person Term Based; Phillip Barry; 4 cr.  
 56936 011 DIS, 12:20-13:10 F, Keller Hall 2-120, In Person Term Based; Phillip Barry; 4 cr.  
 59714 012 DIS, 13:25-14:15 F, Keller Hall 2-120, In Person Term Based; Phillip Barry; 4 cr.  
 59930 013 DIS, 14:30-15:20 F, Keller Hall 2-120, In Person Term Based; Phillip Barry; 4 cr.

**4011 Formal Languages and Automata Theory**

**(Student Option; Prereq: 2041 or instr consent)**  
 46432 001 LEC, 11:15-12:30 TTh, Fraser Hall 101, In Person Term Based; Carl Sturivant; 4 cr.  
 46433 002 DIS, 9:05- 9:55 F, Bruininks Hall 432A, In Person Term Based; Carl Sturivant; 4 cr.  
 58210 004 DIS, 11:15-12:05 F, Bruininks Hall 432A, In Person Term Based; Carl Sturivant; 4 cr.  
 46434 003 DIS, 10:10-11:00 F, Bruininks Hall 432B, In Person Term Based; Carl Sturivant; 4 cr.  
 58595 005 DIS, 12:20-13:10 F, Bruininks Hall 432B, In Person Term Based; Carl Sturivant; 4 cr.

**4041 Algorithms and Data Structures**

**(Student Option; Prereq: [(1913 or 1933) and 2011] or instr consent; cannot be taken for grad CSci cr)**  
 46632 001 LEC, 13:00-14:15 TTh, Keller Hall 3-210, In Person Term Based; James Moen; 4 cr.  
 51750 002 DIS, 9:05- 9:55 F, Bruininks Hall 420B, In Person Term Based; James Moen; 4 cr.  
 53874 004 DIS, 11:15-12:05 F, Bruininks Hall 420B, In Person Term Based; James Moen; 4 cr.  
 46633 003 DIS, 10:10-11:00 F, Bruininks Hall 432A, In Person Term Based; James Moen; 4 cr.  
 55885 005 DIS, 12:20-13:10 F, Bruininks Hall 432A, In Person Term Based; James Moen; 4 cr.  
 56791 006 DIS, 13:25-14:15 F, Bruininks Hall 432A, In Person Term Based; James Moen; 4 cr.  
 65485 007 DIS, 14:30-15:20 F, Bruininks Hall 432A, In Person Term Based; Liz Freppert; 4 cr.

**4061 Introduction to Operating Systems**

**(Student Option; Prereq: 2021 or EE 2361; no cr for grads in CSci)**  
 67666 010 LEC, 18:30-21:00 Th, Akerman Hall 209, In Person Term Based; Jon Weissman; 4 cr.  
 46429 001 LEC, 11:15-12:30 TTh, Keller Hall 3-210, In Person Term Based; Jon Weissman; 4 cr.  
 51744 002 DIS, 10:10-11:00 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.  
 46430 003 DIS, 11:15-12:05 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.  
 46431 004 DIS, 12:20-13:10 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.  
 55181 005 DIS, 13:25-14:15 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.  
 57802 006 DIS, 14:30-15:20 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.  
 67667 011 DIS, 15:35-16:25 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.

67668 012 DIS, 16:40-17:30 M, Keller Hall 2-120, In Person Term Based; Jon Weissman; 4 cr.

**4131 Internet Programming**

**(Student Option; Prereq: 4061, 4211 recommended, cannot be taken for grad CSci cr)**  
 50477 001 LEC, 11:15-12:30 MW, Anderson Hall 350, In Person Term Based; Daniel Challou; 3 cr.

**4203 Computer Architecture**

**(Student Option; Prereq: 2021 or instr consent)**  
 46428 001 LEC, 9:45-11:00 TTh, Akerman Hall 319, In Person Term Based; Meets With: 001 EE 4363; Gerald Sobelman; 4 cr.

**4211 Introduction to Computer Networks**

**(Student Option; Prereq: 4061 or instr consent; basic knowledge of [computer architecture, operating systems] recommended, cannot be taken for grad CSci cr)**  
 58597 001 LEC, 13:00-14:15 MW, Vincent Hall 16, In Person Term Based; David Du; 3 cr.  
 52519 020 LEC, 18:00-20:45 W, No Room Required, In Person Term Based; John Raabe; 3 cr.

**4511W Introduction to Artificial Intelligence**

**(Student Option; Prereq: 2041 or instr consentW)**  
 55551 001 LEC, 16:00-17:15 TTh, Bruininks Hall 114, In Person Term Based; James Parker; 4 cr.

**4611 Programming Interactive Computer Graphics and Games**

**(Student Option; Prereq: 2021 or instr consent)**  
 59166 001 LEC, 9:45-11:00 TTh, Mechanical Engineering 108, In Person Term Based; Rahul Narain; 3 cr.

**4707 Practice of Database Systems**

**(Student Option; Prereq: 4041 or instr consent)**  
 57807 001 LEC, 14:30-15:45 TTh, Keller Hall 3-210, In Person Term Based; Shashi Shekhar; 3 cr.

**4950 Senior Software Project**

**(A-F only; Prereq: Upper div CSci, instr consent)**  
 55460 001 DIS, In Person Term Based; Daniel Challou; 3 cr.

**4970W Advanced Project Laboratory**

**(Student Option; Prereq: Upper div CSci, 4061, instr consent; cannot be taken for grad crW)**  
 51895 030 IND, In Person Term Based; 3 cr.  
 51898 033 IND, In Person Term Based; 3 cr.  
 52950 041 IND, In Person Term Based; Abhishek Chandra; 3 cr.  
 51900 035 IND, In Person Term Based; Anand Tripathi; 3 cr.  
 52952 043 IND, In Person Term Based; Antonia Zhai; 3 cr.  
 51869 004 IND, In Person Term Based; Arindam Banerjee; 3 cr.  
 51870 005 IND, In Person Term Based; Brent Hecht; 3 cr.  
 51897 032 IND, In Person Term Based; Carl Sturivant; 3 cr.  
 51888 023 IND, In Person Term Based; Chad Myers; 3 cr.  
 51871 006 IND, In Person Term Based; Chris Dovolis; 3 cr.  
 51880 015 IND, In Person Term Based; Dan Knights; 3 cr.  
 51867 002 IND, In Person Term Based; Daniel Koley; 3 cr.  
 54806 044 IND, In Person Term Based; Daniel Keefe; 3 cr.  
 51872 007 IND, In Person Term Based; David Du; 3 cr.  
 51901 036 IND, In Person Term Based; Eric Van Wyk; 3 cr.  
 51884 019 IND, In Person Term Based; Gary Meyer; 3 cr.  
 51879 014 IND, In Person Term Based; George Karypis; 3 cr.  
 51885 024 IND, In Person Term Based; Gopalan Nadathur; 3 cr.  
 51896 031 IND, In Person Term Based; Jaideep Srivastava; 3 cr.  
 51868 003 IND, In Person Term Based; John Carlis; 3 cr.  
 51903 038 IND, In Person Term Based; Jon Weissman; 3 cr.  
 51881 016 IND, In Person Term Based; Joseph Konstan; 3 cr.  
 60887 045 IND, In Person Term Based; Lana Yarosh; 3 cr.  
 51899 034 IND, In Person Term Based; Loren Terveen; 3 cr.  
 51874 009 IND, In Person Term Based; Maria Gini; 3 cr.  
 51875 010 IND, In Person Term Based; Mats Heimdalh; 3 cr.  
 51886 021 IND, In Person Term Based; Mohamed Mokbel; 3 cr.  
 52951 042 IND, In Person Term Based; Nicholas Hopper; 3 cr.  
 51887 022 IND, In Person Term Based; Nikolaos Papanikolopoulos; 3 cr.  
 51892 027 IND, In Person Term Based; Paul Schrater; 3 cr.  
 51904 039 IND, In Person Term Based; Pen-Chung Yew; 3 cr.  
 48694 001 IND, In Person Term Based; Phillip Barry; 3 cr.  
 51878 013 IND, In Person Term Based; Ravi Janardan; 3 cr.  
 51883 018 IND, In Person Term Based; Rui Kuang; 3 cr.  
 51894 029 IND, In Person Term Based; Shashi Shekhar; 3 cr.  
 51876 011 IND, In Person Term Based; Stephen Guy; 3 cr.  
 51889 024 IND, In Person Term Based; Stephen McCamant; 3 cr.

51890 025 IND, In Person Term Based; Stergios Roumeliotis; 3 cr.  
 51893 028 IND, In Person Term Based; Steve Jensen; 3 cr.  
 51873 008 IND, In Person Term Based; Tian He; 3 cr.  
 51877 012 IND, In Person Term Based; Victoria Interrante; 3 cr.  
 51882 017 IND, In Person Term Based; Vipin Kumar; 3 cr.  
 51902 037 IND, In Person Term Based; Volkan Isler; 3 cr.  
 51891 026 IND, In Person Term Based; Yousef Saad; 3 cr.  
 51905 040 IND, In Person Term Based; Zhi-Li Zhang; 3 cr.

### 5103 Operating Systems

(Student Option; Prereq: 4061 or instr consent)  
 57432 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Anand Tripathi; 3 cr.  
 57434 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; Anand Tripathi; 3 cr.  
 56938 001 LEC, 11:15-12:30 TTh, Keller Hall 3-115, In Person Term Based; Anand Tripathi; 3 cr.  
 57433 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Anand Tripathi; 3 cr.

### 5105 Introduction to Distributed Systems

(Student Option; Prereq: [5103 or equiv] or instr consent)

57435 881 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; Abhishek Chandra; 3 cr.  
 57437 885 LEC, 16:00-17:15 TTh, Rochester Campus Room TBA, Primarily Online; Abhishek Chandra; 3 cr.  
 56939 001 LEC, 16:00-17:15 TTh, Keller Hall 3-115, In Person Term Based; Abhishek Chandra; 3 cr.  
 57436 883 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; Abhishek Chandra; 3 cr.

### 5106 Programming Languages

(Student Option; Prereq: 4011 or instr consent)  
 68294 883 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; 3 cr.  
 68293 881 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; 3 cr.  
 68295 885 LEC, 16:00-17:15 MW, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 66398 001 LEC, 16:00-17:15 MW, Keller Hall 3-111, In Person Term Based; Gopalan Nadathur; 3 cr.

### 5115 User Interface Design, Implementation and Evaluation

(Student Option; Prereq: 4041 or instr consent)  
 68297 883 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; 3 cr.  
 68296 881 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; 3 cr.  
 68298 885 LEC, 13:00-14:15 TTh, Rochester Campus Room TBA, In Person Term Based; 3 cr.  
 67182 001 LEC, 13:00-14:15 TTh, Keller Hall 3-115, In Person Term Based; Brent Hecht; 3 cr.

### 5125 Collaborative and Social Computing

(Student Option; Prereq: 5115 or instr consent)

60208 881 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Loren Terveen; 3 cr.  
 60210 885 LEC, 9:45-11:00 MW, Rochester Campus Room TBA, Primarily Online; Loren Terveen; 3 cr.  
 59830 001 LEC, 9:45-11:00 MW, Keller Hall 3-111, In Person Term Based; Loren Terveen; 3 cr.  
 60209 883 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Loren Terveen; 3 cr.

### 5143 Real-Time and Embedded Systems (A-F only; Prereq: [4061 or instr consent], experience with C language)

60211 881 LEC, 18:30-21:00 T, Room TBA, Primarily Online; Amy Larson; 3 cr.  
 60213 885 LEC, 18:30-21:00 T, Rochester Campus Room TBA, Primarily Online; Amy Larson; 3 cr.  
 59831 001 LEC, 18:30-21:00 T, Keller Hall 3-111, In Person Term Based; Amy Larson; 3 cr.  
 60212 883 LEC, 18:30-21:00 T, Room TBA, Primarily Online; Amy Larson; 3 cr.

### 5161 Introduction to Compilers

(Student Option; Prereq: [2021, 5106] or instr consent)

57438 881 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; Antonia Zhai; 3 cr.  
 57440 885 LEC, 14:30-15:45 MW, Rochester Campus Room TBA, Primarily Online; Antonia Zhai; 3 cr.  
 56940 001 LEC, 14:30-15:45 MW, Keller Hall 3-111, In Person Term Based; Antonia Zhai; 3 cr.  
 57439 883 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; Antonia Zhai; 3 cr.

### 5221 Foundations of Advanced Networking

(Student Option; Prereq: 4211 or 5211 or equiv; intro course in computer networks recommended)

56655 881 LEC, 18:30-21:00 Th, Room TBA, Primarily Online; Zhi-Li Zhang; 3 cr.  
 56657 885 LEC, 18:30-21:00 Th, Rochester Campus Room TBA, Primarily Online; Zhi-Li Zhang; 3 cr.  
 56246 001 LEC, 18:30-21:00 Th, Mechanical Engineering 212, In Person Term Based; Zhi-Li Zhang; 3 cr.  
 56656 883 LEC, 18:30-21:00 Th, Room TBA, Primarily Online; Zhi-Li Zhang; 3 cr.

### 5302 Analysis of Numerical Algorithms

(Student Option; Prereq: 2031 or 2033 or instr consent)

46427 001 LEC, 16:00-17:15 TTh, Keller Hall 3-125, In Person Term Based; Daniel Boley; 3 cr.  
 52491 881 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; Daniel Boley; 3 cr.  
 52492 883 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; Daniel Boley; 3 cr.  
 52493 885 LEC, 16:00-17:15 TTh, Rochester Campus Room TBA, Primarily Online; Daniel Boley; 3 cr.

### 5421 Advanced Algorithms and Data Structures

(Student Option; Prereq: 4041 or instr consent)  
 50175 001 LEC, 18:30-21:00 W, Keller Hall 3-210, In Person Term Based; Carl Sturivant; 3 cr.  
 52485 881 LEC, 18:30-21:00 W, Room TBA, Primarily Online; Carl Sturivant; 3 cr.  
 52486 883 LEC, 18:30-21:00 W, Room TBA, Primarily Online; Carl Sturivant; 3 cr.  
 52487 885 LEC, 18:30-21:00 W, Rochester Campus Room TBA, Primarily Online; Carl Sturivant; 3 cr.

### 5451 Introduction to Parallel Computing: Architectures, Algorithms, and Programming

(Student Option; Prereq: 4041 or instr consent)  
 55470 881 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; George Karypis; 3 cr.  
 55831 771 LEC, 8:15-9:30 TTh, Rochester Campus Room TBA, Primarily Online; George Karypis; 3 cr.  
 55472 885 LEC, 8:15-9:30 TTh, Rochester Campus Room TBA, Primarily Online; George Karypis; 3 cr.  
 55277 001 LEC, 8:15-9:30 TTh, Mechanical Engineering 108, In Person Term Based; George Karypis; 3 cr.  
 55471 883 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; George Karypis; 3 cr.

### 5461 Functional Genomics, Systems Biology, and Bioinformatics

(Student Option; Prereq: 3003 or 4041 or instr consent)  
 54850 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Chad Myers; 3 cr.  
 55133 771 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; Chad Myers; 3 cr.  
 54852 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; Chad Myers; 3 cr.  
 54836 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 108, In Person Term Based; Chad Myers; 3 cr.  
 54851 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Chad Myers; 3 cr.

### 5512 Artificial Intelligence II

(Student Option; Prereq: [STAT 3021, 4041] or instr consent)  
 57441 881 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Arindam Banerjee; 3 cr.  
 57443 885 LEC, 14:30-15:45 TTh, Rochester Campus Room TBA, Primarily Online; Arindam Banerjee; 3 cr.  
 56658 001 LEC, 14:30-15:45 TTh, Keller Hall 3-111, In Person Term Based; Arindam Banerjee; 3 cr.  
 57442 883 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Arindam Banerjee; 3 cr.

### 5521 Introduction to Machine Learning

(Student Option; Prereq: [[2031 or 2033], STAT 3021] or instr consent)

68301 883 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; 3 cr.  
 68300 881 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; 3 cr.  
 68302 885 LEC, 13:30-14:45 MW, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 67659 001 LEC, 14:30-15:45 MW, Keller Hall 3-125, In Person Term Based; Rui Kuang; 3 cr.

### 5523 Introduction to Data Mining

(Student Option; Prereq: 4041 or equiv or instr consent)  
 68304 883 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; 3 cr.  
 68305 885 LEC, 16:00-17:15 MW, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 68303 881 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; 3 cr.

66413 001 LEC, 16:00-17:15 MW, Mechanical Engineering 212, In Person Term Based; Vipin Kumar; 3 cr.

### 5552 Sensing and Estimation in Robotics

(Student Option; Prereq: [5551, Stat 3021] or instr consent)

68318 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 68317 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; 3 cr.  
 68316 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; 3 cr.  
 66400 001 LEC, 11:15-12:30 TTh, Keller Hall 3-111, In Person Term Based; Stergios Roumeliotis; 3 cr.

### 5561 Computer Vision

(Student Option; Prereq: 5511 or instr consent)  
 46787 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 212, In Person Term Based; Nikolaos Papanikolopoulos; 3 cr.  
 52488 881 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; Nikolaos Papanikolopoulos; 3 cr.  
 52489 883 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; Nikolaos Papanikolopoulos; 3 cr.  
 52490 885 LEC, 13:00-14:15 TTh, Rochester Campus Room TBA, Primarily Online; Nikolaos Papanikolopoulos; 3 cr.

### 5608 Fundamentals of Computer Graphics II

(Student Option; Prereq: 5607 or instr consent)  
 68320 883 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; 3 cr.  
 68319 881 LEC, 14:30-15:45 MW, Room TBA, Primarily Online; 3 cr.  
 68321 885 LEC, 16:30-17:45 MW, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 67186 001 LEC, 14:30-15:45 MW, Keller Hall 3-115, In Person Term Based; Gary Meyer; 3 cr.

### 5619 Virtual Reality and 3D Interaction

(Student Option; Prereq: 4611 or 5607 or 5115 or equiv or instr consent)

59833 001 LEC, 13:00-14:15 MW, Keller Hall 3-111, In Person Term Based; Victoria Interrante; 3 cr.

### 5708 Architecture and Implementation of Database Management Systems

(Student Option; Prereq: 4707 or 5707 or instr consent)  
 46435 001 LEC, 13:00-14:15 MW, Keller Hall 3-115, In Person Term Based; Mohamed Mokbel; 3 cr.  
 52601 881 LEC, 13:00-14:15 MW, Room TBA, Primarily Online; Mohamed Mokbel; 3 cr.  
 52602 883 LEC, 13:00-14:15 MW, Room TBA, Primarily Online; Mohamed Mokbel; 3 cr.  
 52603 885 LEC, 13:00-14:15 MW, Rochester Campus Room TBA, Primarily Online; Mohamed Mokbel; 3 cr.

### 5801 Software Engineering I

(Student Option; Prereq: 2041 or instr consent)  
 60220 881 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Kevin Wendt; 3 cr.  
 60222 885 LEC, 9:45-11:00 MW, Rochester Campus Room TBA, Primarily Online; Kevin Wendt; 3 cr.  
 59834 001 LEC, 9:45-11:00 MW, Mechanical Engineering 108, In Person Term Based; Kevin Wendt; 3 cr.  
 60221 883 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Kevin Wendt; 3 cr.

### 5802 Software Engineering II

(Student Option; Prereq: 5801 or instr consent)  
 54336 881 LEC, 18:30-21:00 M, Room TBA, Primarily Online; Sanjai Rayadurgam; 3 cr.  
 54338 885 LEC, 18:30-21:20 M, Rochester Campus Room TBA, Primarily Online; Sanjai Rayadurgam; 3 cr.  
 54268 001 LEC, 18:30-21:00 M, Keller Hall 3-230, In Person Term Based; Sanjai Rayadurgam; 3 cr.  
 54337 883 LEC, 18:30-21:00 M, Room TBA, Primarily Online; Sanjai Rayadurgam; 3 cr.

### 5980 Special Topics in Computer Science

(Student Option; Prereq: instr consent; may be repeated for cr)

57806 001 LEC, 16:00-17:15 MW, Bruininks Hall 432B, In Person Term Based; 1-3 cr.  
 68083 002 LEC, 14:30-15:45 MW, Bruininks Hal 121, In Person Term Based; Meets With: 004 CSC18980; Eric Van Wyk; 1-3 cr.

### 5994 Directed Research

(Student Option; Prereq: instr consent; may be repeated for cr)  
 51973 030 IND, In Person Term Based; 1-3 cr.  
 51976 033 IND, In Person Term Based; 1-3 cr.

- 52956 041 IND, In Person Term Based; Abhishek Chandra; 1-3 cr.
- 51978 035 IND, In Person Term Based; Anand Tripathi; 1-3 cr.
- 52958 043 IND, In Person Term Based; Antonia Zhai; 1-3 cr.
- 51947 004 IND, In Person Term Based; Arindam Banerjee; 1-3 cr.
- 51948 005 IND, In Person Term Based; Brent Hecht; 1-3 cr.
- 51958 015 IND, In Person Term Based; Dan Knights; 1-3 cr.
- 51945 002 IND, In Person Term Based; Daniel Boley; 1-3 cr.
- 54808 044 IND, In Person Term Based; Daniel Keefe; 1-3 cr.
- 51950 007 IND, In Person Term Based; David Du; 1-3 cr.
- 51979 036 IND, In Person Term Based; Eric Van Wyk; 1-3 cr.
- 51962 019 IND, In Person Term Based; Gary Meyer; 1-3 cr.
- 51957 014 IND, In Person Term Based; George Karypis; 1-3 cr.
- 51963 020 IND, In Person Term Based; Gopalan Nadathur; 1-3 cr.
- 51974 031 IND, In Person Term Based; Jaideep Srivastava; 1-3 cr.
- 51946 003 IND, In Person Term Based; John Carlis; 1-3 cr.
- 51981 038 IND, In Person Term Based; Jon Weissman; 1-3 cr.
- 51959 016 IND, In Person Term Based; Joseph Konstan; 1-3 cr.
- 60889 045 IND, In Person Term Based; Lana Yarosh; 1-3 cr.
- 47530 001 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51949 006 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51956 013 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51966 023 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51975 032 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51980 037 IND, In Person Term Based; Liz Freppert; 1-3 cr.
- 51977 034 IND, In Person Term Based; Loren Terveen; 1-3 cr.
- 51952 009 IND, In Person Term Based; Maria Gini; 1-3 cr.
- 51953 010 IND, In Person Term Based; Mats Heidmahl; 1-3 cr.
- 51964 021 IND, In Person Term Based; Mohamed Mokbel; 1-3 cr.
- 52957 042 IND, In Person Term Based; Nicholas Hopper; 1-3 cr.
- 51965 022 IND, In Person Term Based; Nikolaos Papanikolopoulos; 1-3 cr.
- 51970 027 IND, In Person Term Based; Paul Schrater; 1-3 cr.
- 51982 039 IND, In Person Term Based; Pen-Chung Yew; 1-3 cr.
- 51961 018 IND, In Person Term Based; Rui Kuang; 1-3 cr.
- 51972 029 IND, In Person Term Based; Shashi Shekhar; 1-3 cr.
- 51954 011 IND, In Person Term Based; Stephen Guy; 1-3 cr.
- 51967 024 IND, In Person Term Based; Stephen McCamant; 1-3 cr.
- 51968 025 IND, In Person Term Based; Stergios Roumeliotis; 1-3 cr.
- 51971 028 IND, In Person Term Based; Steve Jensen; 1-3 cr.
- 51951 008 IND, In Person Term Based; Tian He; 1-3 cr.
- 51955 012 IND, In Person Term Based; Victoria Interrante; 1-3 cr.
- 51960 017 IND, In Person Term Based; Vipin Kumar; 1-3 cr.
- 51969 026 IND, In Person Term Based; Yousef Saad; 1-3 cr.
- 51983 040 IND, In Person Term Based; Zhi-Li Zhang; 1-3 cr.
- 5996 Curricular Practical Training**  
(S-N or Audit; Prereq: [CSci or CompE] major, instr consent)
- 52201 030 FWK, In Person Term Based; ; 1 cr.
- 52204 033 FWK, In Person Term Based; ; 1 cr.
- 52961 041 FWK, In Person Term Based; Abhishek Chandra; 1 cr.
- 52206 035 FWK, In Person Term Based; Anand Tripathi; 1 cr.
- 52963 043 FWK, In Person Term Based; Antonia Zhai; 1 cr.
- 52175 004 FWK, In Person Term Based; Arindam Banerjee; 1 cr.
- 52176 005 FWK, In Person Term Based; Brent Hecht; 1 cr.
- 52203 032 FWK, In Person Term Based; Carl Sturivant; 1 cr.
- 52194 023 FWK, In Person Term Based; Chad Myers; 1 cr.
- 52177 006 FWK, In Person Term Based; Chris Dovolis; 1 cr.
- 52186 015 FWK, In Person Term Based; Dan Knights; 1 cr.
- 52173 002 FWK, In Person Term Based; Daniel Boley; 1 cr.
- 54809 044 FWK, In Person Term Based; Daniel Keefe; 1 cr.
- 52178 007 FWK, In Person Term Based; David Du; 1 cr.
- 52207 036 FWK, In Person Term Based; Eric Van Wyk; 1 cr.
- 52190 019 FWK, In Person Term Based; Gary Meyer; 1 cr.
- 52185 014 FWK, In Person Term Based; George Karypis; 1 cr.
- 52191 020 FWK, In Person Term Based; Gopalan Nadathur; 1 cr.
- 52202 031 FWK, In Person Term Based; Jaideep Srivastava; 1 cr.
- 52174 003 FWK, In Person Term Based; John Carlis; 1 cr.
- 52209 038 FWK, In Person Term Based; Jon Weissman; 1 cr.
- 52187 016 FWK, In Person Term Based; Joseph Konstan; 1 cr.
- 60890 045 FWK, In Person Term Based; Lana Yarosh; 1 cr.
- 48864 001 FWK, In Person Term Based; Liz Freppert; 1 cr.
- 52205 034 FWK, In Person Term Based; Loren Terveen; 1 cr.
- 52180 009 FWK, In Person Term Based; Maria Gini; 1 cr.
- 52181 010 FWK, In Person Term Based; Mats Heidmahl; 1 cr.
- 52192 021 FWK, In Person Term Based; Mohamed Mokbel; 1 cr.
- 52962 042 FWK, In Person Term Based; Nicholas Hopper; 1 cr.
- 52193 022 FWK, In Person Term Based; Nikolaos Papanikolopoulos; 1 cr.
- 52198 027 FWK, In Person Term Based; Paul Schrater; 1 cr.
- 52210 039 FWK, In Person Term Based; Pen-Chung Yew; 1 cr.
- 52184 013 FWK, In Person Term Based; Ravi Janardan; 1 cr.
- 52189 018 FWK, In Person Term Based; Rui Kuang; 1 cr.
- 52200 029 FWK, In Person Term Based; Shashi Shekhar; 1 cr.
- 52182 011 FWK, In Person Term Based; Stephen Guy; 1 cr.
- 52195 024 FWK, In Person Term Based; Stephen McCamant; 1 cr.
- 52196 025 FWK, In Person Term Based; Stergios Roumeliotis; 1 cr.
- 52199 028 FWK, In Person Term Based; Steve Jensen; 1 cr.
- 52179 008 FWK, In Person Term Based; Tian He; 1 cr.
- 52183 012 FWK, In Person Term Based; Victoria Interrante; 1 cr.
- 52188 017 FWK, In Person Term Based; Vipin Kumar; 1 cr.
- 52208 037 FWK, In Person Term Based; Volkan Isler; 1 cr.
- 52197 026 FWK, In Person Term Based; Yousef Saad; 1 cr.
- 52211 040 FWK, In Person Term Based; Zhi-Li Zhang; 1 cr.
- 8002 Introduction to Research in Computer Science, II**  
(A-F only; Prereq: 8001, 1st yr CS PhD student)  
53573 001 LEC, 11:15-12:30 F, Keller Hall 3-125, In Person Term Based; Joseph Konstan; 2 cr.
- 8205 Parallel Computer Organization**  
(Student Option; Prereq: 5204 or EE 5364 or instr consent)  
56659 881 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Antonia Zhai; 3 cr.
- 56661 885 LEC, 9:45-11:00 MW, Rochester Campus Room TBA, Primarily Online; Antonia Zhai; 3 cr.
- 56067 001 LEC, 9:45-11:00 MW, Keller Hall 3-125, In Person Term Based; Meets With: 001 EE 8367; Antonia Zhai; 3 cr.
- 56660 883 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; Antonia Zhai; 3 cr.
- 8211 Advanced Computer Networks and Their Applications**  
(Student Option; Prereq: 5211 or instr consent)  
66401 001 LEC, 13:00-14:15 TTh, Bruininks Hal 121, In Person Term Based; Zhi-Li Zhang; 3 cr.
- 8271 Security and Privacy in Computing**  
(A-F or Audit; Prereq: [5211, 5103] or instr consent; 5471 or EE 5248 or Math 5248 or equiv recommended)  
66412 001 LEC, 9:45-11:00 MW, Bruininks Hall 123, In Person Term Based; Nicholas Hopper; 3 cr.
- 8333 FTE: Master's**  
(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49106 001 IND, In Person Term Based; 1 cr.
- 8444 FTE: Doctoral**  
(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49205 001 IND, In Person Term Based; 1 cr.
- 8666 Doctoral Pre-Thesis Credits**  
(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49294 001 IND, In Person Term Based; 1-6 cr.
- 8715 Spatial Databases and Applications**  
(Student Option; Prereq: 4707 or 5707 or GIS 5571 or GIS 5573)  
66402 001 LEC, 9:45-11:00 TTh, Akerman Hall 227, In Person Term Based; Shashi Shekhar; 3 cr.
- 8760 Plan B Project**  
(S-N or Audit; Prereq: CSci MS student, instr consent)  
52101 030 IND, In Person Term Based; ; 3 cr.
- 52104 033 IND, In Person Term Based; ; 3 cr.
- 52964 041 IND, In Person Term Based; Abhishek Chandra; 3 cr.
- 52106 035 IND, In Person Term Based; Anand Tripathi; 3 cr.
- 52966 043 IND, In Person Term Based; Antonia Zhai; 3 cr.
- 52075 004 IND, In Person Term Based; Arindam Banerjee; 3 cr.
- 52076 005 IND, In Person Term Based; Brent Hecht; 3 cr.
- 52103 032 IND, In Person Term Based; Carl Sturivant; 3 cr.
- 52094 023 IND, In Person Term Based; Chad Myers; 3 cr.
- 52077 006 IND, In Person Term Based; Chris Dovolis; 3 cr.
- 52086 015 IND, In Person Term Based; Dan Knights; 3 cr.
- 52073 002 IND, In Person Term Based; Daniel Boley; 3 cr.
- 54810 044 IND, In Person Term Based; Daniel Keefe; 3 cr.
- 52078 007 IND, In Person Term Based; David Du; 3 cr.
- 52107 036 IND, In Person Term Based; Eric Van Wyk; 3 cr.
- 52090 019 IND, In Person Term Based; Gary Meyer; 3 cr.
- 52085 014 IND, In Person Term Based; George Karypis; 3 cr.
- 52091 020 IND, In Person Term Based; Gopalan Nadathur; 3 cr.
- 52102 031 IND, In Person Term Based; Jaideep Srivastava; 3 cr.
- 52074 003 IND, In Person Term Based; John Carlis; 3 cr.
- 52109 038 IND, In Person Term Based; Jon Weissman; 3 cr.
- 52087 016 IND, In Person Term Based; Joseph Konstan; 3 cr.
- 60891 045 IND, In Person Term Based; Lana Yarosh; 3 cr.
- 47833 001 IND, In Person Term Based; Liz Freppert; 3 cr.
- 52105 034 IND, In Person Term Based; Loren Terveen; 3 cr.
- 52080 009 IND, In Person Term Based; Maria Gini; 3 cr.
- 52081 010 IND, In Person Term Based; Mats Heidmahl; 3 cr.
- 52092 021 IND, In Person Term Based; Mohamed Mokbel; 3 cr.
- 52965 042 IND, In Person Term Based; Nicholas Hopper; 3 cr.
- 52093 022 IND, In Person Term Based; Nikolaos Papanikolopoulos; 3 cr.
- 52098 027 IND, In Person Term Based; Paul Schrater; 3 cr.
- 52110 039 IND, In Person Term Based; Pen-Chung Yew; 3 cr.
- 52084 013 IND, In Person Term Based; Ravi Janardan; 3 cr.
- 52089 018 IND, In Person Term Based; Rui Kuang; 3 cr.
- 52100 029 IND, In Person Term Based; Shashi Shekhar; 3 cr.
- 52082 011 IND, In Person Term Based; Stephen Guy; 3 cr.
- 52095 024 IND, In Person Term Based; Stephen McCamant; 3 cr.
- 52096 025 IND, In Person Term Based; Stergios Roumeliotis; 3 cr.
- 52099 028 IND, In Person Term Based; Steve Jensen; 3 cr.
- 52079 008 IND, In Person Term Based; Tian He; 3 cr.
- 52083 012 IND, In Person Term Based; Victoria Interrante; 3 cr.
- 52088 017 IND, In Person Term Based; Vipin Kumar; 3 cr.
- 52108 037 IND, In Person Term Based; Volkan Isler; 3 cr.
- 52097 026 IND, In Person Term Based; Yousef Saad; 3 cr.
- 52111 040 IND, In Person Term Based; Zhi-Li Zhang; 3 cr.
- 8777 Thesis Credits: Master's**  
(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49394 001 IND, In Person Term Based; 1-18 cr.
- 8888 Thesis Credit: Doctoral**  
(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49518 001 IND, In Person Term Based; 1-24 cr.
- 8970 Computer Science Colloquium**  
(S-N or Audit; )  
51486 883 LEC, 11:15-12:15 M, ONLINE, Completely Online; ; 1 cr.
- 51001 881 LEC, 11:15-12:15 M, Room TBA, In Person Term Based; ; 1 cr.
- 51002 885 LEC, 11:15-12:15 M, Rochester Campus Room TBA, In Person Term Based; ; 1 cr.
- 47677 001 LEC, 11:15-12:15 M, Keller Hall 3-125, In Person Term Based; ; 1 cr.
- 8980 Special Advanced Topics in Computer Science**  
(Student Option; Prereq: instr consent)  
68084 004 LEC, 14:30-15:45 MW, Bruininks Hal 121, In Person Term Based; Meets With: 002 CSCI 5980; Eric Van Wyk; 1-3 cr.
- 56473 001 LEC, 13:00-14:15 MW, Bruininks Hall 117, In Person Term Based; Haiyi Zhu; 1-3 cr.
- 60470 003 LEC, 16:00-17:15 TTh, Bruininks Hal 121, In Person Term Based; Stephen Guy; 1-3 cr.
- 57264 002 LEC, 14:30-15:45 TTh, Bruininks Hal 121, In Person Term Based; Anand Tripathi; 1-3 cr.
- 8994 Directed Research in Computer Science**  
(Student Option; Prereq: instr consent)  
52051 030 IND, In Person Term Based; ; 1-3 cr.
- 52054 033 IND, In Person Term Based; ; 1-3 cr.
- 52971 041 IND, In Person Term Based; Abhishek Chandra; 1-3 cr.
- 52056 035 IND, In Person Term Based; Anand Tripathi; 1-3 cr.



52973 043 IND, In Person Term Based; Antonia Zhai; 1-3 cr.  
 52025 004 IND, In Person Term Based; Arindam Banerjee; 1-3 cr.  
 52026 005 IND, In Person Term Based; Brent Hecht; 1-3 cr.  
 52053 032 IND, In Person Term Based; Carl Sturtivant; 1-3 cr.  
 52044 023 IND, In Person Term Based; Liz Freppert; 1-3 cr.  
 52027 006 IND, In Person Term Based; Chris Dovolis; 1-3 cr.  
 52036 015 IND, In Person Term Based; Dan Knights; 1-3 cr.  
 52023 002 IND, In Person Term Based; Daniel Boley; 1-3 cr.  
 54812 044 IND, In Person Term Based; Daniel Keefe; 1-3 cr.  
 52028 007 IND, In Person Term Based; David Du; 1-3 cr.  
 52057 036 IND, In Person Term Based; Eric Van Wyk; 1-3 cr.  
 52040 019 IND, In Person Term Based; Gary Meyer; 1-3 cr.  
 52035 014 IND, In Person Term Based; George Karypis; 1-3 cr.  
 52041 020 IND, In Person Term Based; Gopalan Nadathur; 1-3 cr.  
 52052 031 IND, In Person Term Based; Jaideep Srivastava; 1-3 cr.  
 52024 003 IND, In Person Term Based; John Carlis; 1-3 cr.  
 52059 038 IND, In Person Term Based; Jon Weissman; 1-3 cr.  
 52037 016 IND, In Person Term Based; Joseph Konstan; 1-3 cr.  
 60893 045 IND, In Person Term Based; Lana Yarosh; 1-3 cr.  
 47532 001 IND, In Person Term Based; Liz Freppert; 1-3 cr.  
 52055 034 IND, In Person Term Based; Loren Terveen; 1-3 cr.  
 52030 009 IND, In Person Term Based; Maria Gini; 1-3 cr.  
 52031 010 IND, In Person Term Based; Mats Heimdahl; 1-3 cr.  
 52042 021 IND, In Person Term Based; Mohamed Mokbel; 1-3 cr.  
 52972 042 IND, In Person Term Based; Nicholas Hopper; 1-3 cr.  
 52043 022 IND, In Person Term Based; Nikolaos Papanikolopoulos; 1-3 cr.  
 52048 027 IND, In Person Term Based; Paul Schrater; 1-3 cr.  
 52060 039 IND, In Person Term Based; Pen-Chung Yew; 1-3 cr.  
 52034 013 IND, In Person Term Based; Ravi Janardan; 1-3 cr.  
 52039 018 IND, In Person Term Based; Rui Kuang; 1-3 cr.  
 52050 029 IND, In Person Term Based; Shashi Shekhar; 1-3 cr.  
 52032 011 IND, In Person Term Based; Stephen Guy; 1-3 cr.  
 52045 024 IND, In Person Term Based; Stephen McCamant; 1-3 cr.  
 52046 025 IND, In Person Term Based; Stergios Roumeliotis; 1-3 cr.  
 52049 028 IND, In Person Term Based; Steve Jensen; 1-3 cr.  
 52029 008 IND, In Person Term Based; Tian He; 1-3 cr.  
 52033 012 IND, In Person Term Based; Victoria Irrantante; 1-3 cr.  
 52038 017 IND, In Person Term Based; Vipin Kumar; 1-3 cr.  
 52058 037 IND, In Person Term Based; Volkan Isler; 1-3 cr.  
 52047 026 IND, In Person Term Based; Yousef Saad; 1-3 cr.  
 52061 040 IND, In Person Term Based; Zhi-Li Zhang; 1-3 cr.

## Conservation Biology (CBIO)

### 8001 Conservation Biology Seminar

(S-N or Audit; Prereq: instr consent)  
 49065 001 LEC, 16:05-17:05 M, Rutan Hall B35, In Person Term Based; 1 cr.

### 8004 Economic and Social Aspects of Conservation Biology

(Student Option; Prereq: CBIO student or instr consent)  
 49021 001 LEC, 8:45-10:00 MW, Biological Sciences Ctr 64, In Person Term Based; Stephen Polasky; 3 cr.

### 8095 Contemporary Problems in Conservation Biology

(S-N or Audit; Prereq: 8004, FW 8452, instr consent)  
 50260 001 DIS, In Person Term Based; Nicholas Jordan; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49097 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49197 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept

consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49286 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49386 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required; prior to passing written and oral prelims, must have: 1 yr coursework in program; approval on a degree program; 1-2 pg research proposal (approved by adviser) to DGS asst)  
 49513 001 IND, In Person Term Based; 1-24 cr.

## Construction Management (CMGT)

### 2019 AutoCAD for Construction Managers

(Student Option; Prereq: 30 sem cr)  
 55394 002 LEC, 18:00-21:35 T, Ford Hall 110, In Person Term Based; Ann Johnson; 2 cr.  
 55394 002 LEC, 18:00-21:35 T, Ford Hall 110, In Person Term Based; Ann Johnson; 2 cr.  
 55394 002 LEC, 18:00-21:35 T, Ford Hall 110, In Person Term Based; Ann Johnson; 2 cr.

### 2021 Facility Programming and Design

(A-F or Audit; )  
 58082 001 LEC, 18:00-21:35 T, Ford Hall 151, In Person Term Based; Lynn Cross; 2 cr.

### 3001 Introduction to Construction

(Student Option; )  
 55443 A94 LEC, Online & Distance Lrng (ODL); Rose Marie Kuehni; 3 cr.  
 49267 001 LEC, 18:00-20:45 M, Ford Hall 110, Partially Online; Troy Wenck; 3 cr.  
 49267 001 LEC, 18:00-20:45 M, Ford Hall 110, Partially Online; Troy Wenck; 3 cr.

### 3011 Construction Plan Reading

(Student Option; )  
 50571 001 LEC, 18:00-21:35 T, Mechanical Engineering 102, In Person Term Based; Rose Marie Kuehni; 2 cr.  
 50571 001 LEC, 18:00-21:35 T, Mechanical Engineering 102, In Person Term Based; Rose Marie Kuehni; 2 cr.

### 4011 Construction Documents and Contracts

(Student Option; Prereq: 3001, 45 sem cr)  
 48279 001 LEC, 18:00-20:45 M, Ford Hall 151, In Person Term Based; Stephen Hauser; 3 cr.

### 4021 Construction Planning and Scheduling

(Student Option; Prereq: 3001, 3011, 45 sem cr)  
 51263 001 LEC, 18:00-20:45 Th, Ford Hall 127, In Person Term Based; Kenneth Styrlund; 3 cr.  
 51263 001 LEC, 18:00-20:45 Th, Ford Hall 127, In Person Term Based; Kenneth Styrlund; 3 cr.

### 4022 Construction Estimating

(Student Option; Prereq: 3001, 3011, 45 sem cr)  
 49185 001 LEC, 18:00-20:45 M, Bruininks Hall 512A, In Person Term Based; Mark Adamson; 3 cr.

### 4031 Construction Safety and Loss Control

(Student Option; Prereq: 3001, 45 sem cr)  
 51423 001 LEC, 18:00-20:45 W, Ford Hall 151, In Person Term Based; Lynn Cross; 3 cr.

### 4041W Specifications and Technical Writing for Construction Professionals

(Student Option; Prereq: 4011 or concurrent registration is required (or allowed) in 4011W)  
 51157 001 LEC, 18:00-20:45 Th, Ford Hall 151, In Person Term Based; A Hilger, AIA; 3 cr.

### 4051 Construction Materials for Managers

(Student Option; Prereq: 3001, [AEM 2011 or BP 3001 or BP 3101], 45 sem cr)  
 50781 001 LEC, 18:00-20:45 W, Ford Hall 127, In Person Term Based; Jupe Hale; 3 cr.

### 4073 Building Codes for Construction Managers

(Student Option; Prereq: 45 cr or instr consent)  
 57459 A94 LEC, Online & Distance Lrng (ODL); Scott Holm; 1 cr.

### 4081 Managing Erosion and Sediment Control on Construction Sites

(A-F or Audit; Prereq: 3011 or related experience)  
 58418 001 LEC, 15:35-17:30 Th, Civil Engineering Bldg 212, In Person Term Based; Lynn Cross; 1 cr.

### 4215 Facility Quality Assessment and Commissioning

(A-F or Audit; Prereq: 3001, [4213 or concurrent registration is required (or allowed) in 4213], 4542, 4562)  
 58419 001 LEC, 18:00-21:35 W, Ford Hall 110, Partially Online; Lynn Cross; 2 cr.

### 4422 Advanced Construction Cost Estimating

(Student Option; Prereq: CMGT 4022 or instr consent)  
 57536 001 LEC, 15:35-17:30 Th, Armory Building 202, Partially Online; Lynn Cross; 2 cr.

### 4542 Building Energy Systems

(A-F or Audit; Prereq: [3001, [jr or sr]] or instr consent)  
 54317 001 LEC, 18:00-20:45 M, Ford Hall 130, In Person Term Based; Nirmal Jain; 3 cr.

### 4550 Topics in Construction Management

(A-F or Audit; )  
 60871 A94 LEC, Online & Distance Lrng (ODL); Klaus Lemke; 1-2 cr.  
 60871 A94 LEC, Online & Distance Lrng (ODL); Klaus Lemke; 1-2 cr.  
 60871 A94 LEC, Online & Distance Lrng (ODL); Klaus Lemke; 1-2 cr.

### 4861 Construction Management Capstone

(A-F or Audit; Prereq: 4011, 4021, 4022, 4031)  
 60822 002 LEC, 18:00-20:05 T, Ford Hall 127, In Person Term Based; A Hilger, AIA; 2 cr.  
 60822 002 LEC, 18:00-20:05 T, Ford Hall 127, In Person Term Based; A Hilger, AIA; 2 cr.  
 60822 002 LEC, 18:00-20:05 T, Ford Hall 127, In Person Term Based; A Hilger, AIA; 2 cr.  
 56796 001 LEC, 18:00-20:05 T, Ford Hall 130, In Person Term Based; Lynn Cross; 2 cr.  
 56796 001 LEC, 18:00-20:05 T, Ford Hall 130, In Person Term Based; Lynn Cross; 2 cr.  
 56796 001 LEC, 18:00-20:05 T, Ford Hall 130, In Person Term Based; Lynn Cross; 2 cr.

## Continuing Dental Education (CDED)

### 6101 Postgraduate Contemporary Esthetic Dentistry I: Level I--Lecture/Laboratory Series

(S-N or Audit; )  
 51709 001 LEC, In Person Term Based; Paul Olin; 5 cr.

### 6202 Postgraduate Contemporary Esthetic Dentistry: Level II--Patient Series

(S-N or Audit; Prereq: 6101)  
 51710 001 LEC, In Person Term Based; Paul Olin; 5 cr.

### 7302 Postgraduate Contemporary Esthetic Dentistry: Level III--Orthodontic and Periodontal Esthetics

(S-N or Audit; )  
 51711 001 LEC, In Person Term Based; Paul Olin; 1-1.5 cr.

### 7307 Postgraduate Contemporary Esthetic Dentistry: Level III--Technology in Restorative Dentistry

(S-N or Audit; )  
 51712 001 LEC, In Person Term Based; Paul Olin; 1 cr.

## Control Sci and Dynamical Syst (CSDY)

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49207 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49296 001 IND, In Person Term Based; 1-6 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49519 001 IND, In Person Term Based; 1-24 cr.

**8899 Seminar in Control Science and Dynamical Systems**

(S-N or Audit; Prereq: CSDY or IT grad)  
51003 881 LEC, 12:20-13:10 F, Room TBA, In Person Term Based; Gary Balas; 1-3 cr.  
51478 883 LEC, 12:20-13:10 F, Room TBA, In Person Term Based; Gary Balas; 1-3 cr.  
51004 885 LEC, 12:20-13:10 F, Rochester Campus Room TBA, In Person Term Based; Gary Balas; 1-3 cr.  
48216 001 LEC, 12:20-13:10 F, Akerman Hall 227, In Person Term Based; Gary Balas; 1-3 cr.

**Coptic (COPT)****5002 Elementary Coptic**

(Student Option; Prereq: 5001 or equiv)  
68558 001 DIS, 13:25-14:15 MWF, Folwell Hall 118, In Person Term Based; Philip Sellow; 3 cr.

**Ctr for Spirituality/Healing (CSPH)****1000 Topics in Whole Life Wellbeing**

(Student Option; )  
61215 001 LEC, Completely Online; Andrea Uptmor; 1-4 cr.

**1001 Principles of Holistic Health and Healing**

(Student Option; )  
53137 001 LEC, Completely Online; Linda Brady; 2 cr.

**3001 Introduction to Integrative Healing**

(Student Option; Prereq: 60 credits or instr consent)  
59269 001 LEC, Completely Online; Linda Brady; 3 cr.

**3101 Creating Ecosystems of Well-Being**

(Student Option; )  
57483 001 LEC, Completely Online; Kate Hathaway; 2 cr.

**3201 Introduction to Mindfulness-Based Stress Reduction**

(Student Option; )  
60813 001 LEC, 9:30-16:00 Sa, Mayo Bldg B393 Meditation Rm, 9:05-11:00 T, Mayo Bldg B393 Meditation Rm, In Person Term Based; Alex Haley; 2 cr.  
56801 002 LEC, 9:30-16:00 Su, Mayo Bldg B393 Meditation Rm, 9:05-11:00 W, Mayo Bldg B393 Meditation Rm, In Person Term Based; Alex Haley; 2 cr.  
53850 003 LEC, 9:30-16:00 Sa, Mayo Bldg B393 Meditation Rm, 12:20-14:15 W, Mayo Bldg B393 Meditation Rm, In Person Term Based; Erin Fider; 2 cr.

**3211 Living on Purpose: An Exploration of Self, Purpose, and Community**

(Student Option; Prereq: 30+ credits completed or instr consent)  
61022 002 LEC, Primarily Online; ; 2 cr.  
61021 001 LEC, Primarily Online; Carole Anne Broad; 2 cr.

**4311 Foundations of Hatha Yoga:**

**Alignment & Movement Principles**  
(Student Option; Prereq: [Prerequisite PsTL 1135 Essentials of Human Anatomy and Physiology or equivalent], instr consent (prerequisite course may be taken concurrently))  
60803 002 LEC, 14:30-16:25 T, , In Person Term Based; Katie Schuver; 3 cr.  
60802 001 LAB, 16:40-19:20 T, , In Person Term Based; Katie Schuver; 3 cr.

**4312 Hatha Yoga Philosophy, Lifestyle, & Ethics**

(Student Option; Prereq: 4311)  
60805 002 LEC, 14:30-16:45 M, Mayo Bldg B393 Meditation Rm, In Person Term Based; Katie Schuver; 3 cr.

60804 001 LAB, 16:40-19:20 M, Mayo Bldg B393 Meditation Rm, In Person Term Based; Katie Schuver; 3 cr.

**4313 Hatha Yoga Teaching Principles & Methodology**

(Student Option; Prerequisite two Hatha Yoga courses. Practice skills through participation in Service Learning. Third course in sequence of three (3) courses in University of Minnesota Yoga Teachers' Education & Training Sequence. prereq: 4311, 4312)  
60807 002 LEC, 15:30-16:25 W, , In Person Term Based; Katie Schuver; 2 cr.  
60806 001 LAB, 16:40-19:20 W, , In Person Term Based; Katie Schuver; 2 cr.

**5000 Explorations in Integrative Therapies and Healing Practices**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
55151 001 LEC, Partially Online; 1-4 cr.  
55713 002 LEC, In Person Term Based; 1-4 cr.  
55829 003 LEC, In Person Term Based; 1-4 cr.  
55828 004 LEC, In Person Term Based; 1-4 cr.  
55728 005 LEC, In Person Term Based; 1-4 cr.

**5101 Introduction to Integrative Healing Practices**

(Student Option; Prereq: Jr or sr or grad student; or instructor consent)  
57549 002 LEC, Completely Online; Patricia Culliton; 3 cr.  
49312 001 LEC, Partially Online; Patricia Culliton; 3 cr.

**5102 Art of Healing: Self as Healer**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
53776 002 LEC, 8:30-17:30 F, Mayo Bldg B393 Meditation Rm, In Person Term Based; Laurie Kubus; 1 cr.  
52591 001 LEC, In Person Term Based; Linda Halcon; 1 cr.  
49009 003 LEC, In Person Term Based; Patricia Culliton; 1 cr.

**5115 Cultural Awareness, Knowledge and Health**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
53136 001 LEC, 15:30-18:20 M, , In Person Term Based; Craig Hassel; 3 cr.

**5121 Whole Systems Healing: Health and the Environment**

(Student Option; Prereq: Jr or sr or grad student)  
56804 001 LEC, 16:00-18:00 W, , In Person Term Based; Erin Fider; 2 cr.

**5201 Spirituality and Resilience**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
49862 001 LEC, 9:00-17:00 Sa, , 16:30-20:00 W, , In Person Term Based; Kathy Marshall; 2 cr.

**5211 Peacemaking and Spirituality: A Journey Toward Healing and Strength**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
60844 001 LEC, In Person Term Based; 2-3 cr.

**5215 Forgiveness and Healing: A Journey Toward Wholeness**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
50903 001 LEC, 9:00-17:00 Sa, Mayo Bldg & Additions 1250, 18:00-21:00 F, , In Person Term Based; Mark Umbreit; 3 cr.

**5226 Advanced Meditation: Body, Brain, Mind, and Universe**

(Student Option; Prereq: [5225, [jr or sr or grad student]] or instr consent)  
51335 001 LEC, 13:25-16:25 T, Mayo Bldg B393 Meditation Rm, In Person Term Based; Erik Storie; 1 cr.  
55849 002 LEC, In Person Term Based; MaryJo Kreitzer; 1 cr.

**5311 Introduction to Traditional Chinese Medicine**

(A-F or Audit; Prereq: Jr or sr or grad student or instr consent)  
48963 001 LEC, 10:10-12:05 W, , In Person Term Based; Christopher Hafner; 2 cr.

**5317 Yoga: Ethics, Spirituality, and Healing**

(Student Option; )  
59409 001 LEC, Primarily Online; Miriam Cameron; 2 cr.

**5332 Global Healing Traditions: Amazonia Plant Spirit Medicine**

(S-N or Audit; Prereq: [5331, [grad student or jr or sr in health science or practicing health professional]] or instr consent)  
59607 504 LEC, Study Abroad; 2 cr.

**5343 Ayurveda Medicine: The Science of Self-healing**

(Student Option; )  
59471 001 LEC, Completely Online; Asavari Manvikar; 2 cr.

**5401 People, Plants, and Drugs:**

**Introduction to Ethnopharmacology**  
(Student Option; Prereq: Jr or sr or grad student or instr consent)  
56802 001 LEC, Completely Online; Dennis McKenna; 3 cr.

**5431 Functional Nutrition: An Expanded View of Nutrition, Chronic Disease, and Optimal Health**

(Student Option; Prereq: [Jr or sr or grad student] in Health Sciences or instr consent)  
52506 001 LEC, 15:35-17:30 Th, , In Person Term Based; Carolyn Denton; 2 cr.

**5503 Aromatherapy Fundamentals**

(Student Option; Prereq: Jr or sr or grad student)  
61063 001 LEC, Completely Online; Linda Halcon; 1 cr.

**5511 Interdisciplinary Palliative Care: An Experiential Course in a Community Setting**

(Student Option; Prereq: instr consent)  
55712 001 LEC, 14:30-16:25 M, , In Person Term Based; Erin Fider; 2 cr.

**5535 Reiki Healing**

(S-N only; Prereq: Jr or sr or grad student or instr consent)  
55065 003 LEC, 9:00-17:00 FSa, , In Person Term Based; Deborah Ringdahl; 1 cr.  
53144 002 LEC, 9:00-17:00 SaSu, Mayo Bldg B393 Meditation Rm, In Person Term Based; Deborah Ringdahl; 1 cr.  
53135 001 LEC, 9:00-17:00 FSa, Mayo Bldg B393 Meditation Rm, In Person Term Based; Deborah Ringdahl; 1 cr.

**5536 Advanced Reiki Healing: Level II**

(S-N only; Prereq: 5535, instr consent)  
53012 001 LEC, 9:00-17:00 SaSu, , In Person Term Based; Deborah Ringdahl; 1 cr.

**5555 Introduction to Body and Movement-based Therapies**

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
51159 001 LEC, 16:40-18:20 Th, , In Person Term Based; Barbara Nordstrom-Loeb; 2 cr.

**5561 Overview of the Creative Arts in Health and Healing**

(Student Option; Prereq: Jr or sr or grad student)  
59525 001 LEC, 17:00-21:00 F, Mayo Bldg B393 Meditation Rm, 12:30-16:30 Su, , 8:30-16:30 Sa, , In Person Term Based; Erin Fider; 2 cr.

**5631 Healing Imagery I**

(Student Option; Prereq: Jr or sr or grad student)  
56803 001 LEC, Completely Online; Erin Fider; 2 cr.

**5641 Animals in Health Care: The Healing Dimensions of Human/Animal Relationships**

(Student Option; Prereq: Jr or sr or grad student)  
56798 001 LEC, 17:45-20:45 Th, Plant Growth Facility 140A/B, In Person Term Based; Jean Larson; 3 cr.

**5702 Fundamentals of Health Coaching II**

(A-F or Audit; Prereq: 5701)  
53846 001 LEC, In Person Term Based; Karen Lawson; 4 cr.

**5705 Health Coaching Professional Internship**

(S-N only; Prereq: 5701, 5702, 5703, admitted to postbaccalaureate certificate in integrative therapies/

healing practices health coaching track, [5101, 5102, 5704 recommended])  
55045 001 FWK, In Person Term Based; Karen Lawson; 2 cr.

### 5707 Coaching People with Clinical Conditions

(Student Option; Prereq: CSPH 5701; practicing health professional admitted to one of the following programs: Integrative Health and Wellbeing Coaching Master's or Integrative Therapies and Healing Practices Certificate-Health Coaching track or Doctorate of Nursing Practice; or instructor consent)  
61030 001 LEC, 9:00-16:00 Sa, , Primarily Online; Holly Link; 2 cr.

### 5708 Mind-Body Science and the Art of Transformation

(Student Option; )  
61014 001 LEC, Completely Online; Michele Rae; 1 cr.

### 8101 Critiquing and Synthesizing Complementary and Alternative Healing Practices (CAHP) Research

(Student Option; Prereq: Grad student)  
53160 001 LEC, 14:30-16:30 Th, , In Person Term Based; Laura Duckett; 2 cr.

### 8191 Independent Study in Integrative Therapies and Healing Practices

(Student Option; Prereq: instr consent)  
55172 003 IND, In Person Term Based; Deborah Ringdahl; 1-6 cr.  
50174 001 IND, In Person Term Based; Erin Fider; 1-6 cr.  
55936 004 IND, In Person Term Based; Jean Larson; 1-6 cr.  
55159 002 IND, In Person Term Based; MaryJo Kreitzer; 1-6 cr.

## Cultural Study/Comparative Lit (CSCL)

### 1001 Introduction to Cultural Studies: Rhetoric, Power, Desire

(Student Option; AH,DSJ)  
46612 001 LEC, 9:45-11:00 TTh, Anderson Hall 370, In Person Term Based; Harshit Rathi; 4 cr.

### 1101 Literature

(Student Option; LITR)  
47516 001 LEC, 11:15-12:30 TTh, Nicholson Hall 155, In Person Term Based; Anil Chandiramani; 4 cr.

### 1201W Cinema

(Student Option; AH,WI)  
68954 004 DIS, 9:05- 9:55 Th, Peik Hall 165, In Person Term Based; Meets With: 004 SCMC 1201W; 4 cr.  
68952 002 DIS, 9:05- 9:55 T, Peik Hall 165, In Person Term Based; Meets With: 002 SCMC 1201W; 4 cr.  
68955 005 DIS, 10:10-11:00 Th, Peik Hall 165, In Person Term Based; Meets With: 005 SCMC 1201W; 4 cr.  
68953 003 DIS, 10:10-11:00 T, Peik Hall 165, In Person Term Based; Meets With: 003 SCMC 1201W; 4 cr.  
68956 006 DIS, 8:00- 8:50 F, Blegen Hall 220, In Person Term Based; Meets With: 006 SCMC 1201W; 4 cr.  
68957 007 DIS, 9:05- 9:55 F, Blegen Hall 220, In Person Term Based; Meets With: 007 SCMC 1201W; 4 cr.  
51515 001 LEC, 11:15-14:15 F, Anderson Hall 310, 11:15-12:30 M, Anderson Hall 310, In Person Term Based; Meets With: 001 SCMC 1201W; Aaron Thompson; 4 cr.  
68958 008 DIS, 10:10-11:00 W, Bruininks Hall 117, In Person Term Based; Meets With: 008 SCMC 1201W; Vanessa Cambier; 4 cr.  
68959 009 DIS, 11:15-12:05 W, Bruininks Hall 123, In Person Term Based; Meets With: 009 SCMC 1201W; Vanessa Cambier; 4 cr.

### 1202W Media: Word, Image, Sound

(Student Option; AH,WI)  
68965 006 DIS, 9:05- 9:55 F, Nicholson Hall 315, In Person Term Based; Meets With: 006 SCMC 1202W; 4 cr.  
68966 007 DIS, 10:10-11:00 F, Nicholson Hall 315, In Person Term Based; Meets With: 007 SCMC 1202W; 4 cr.  
68963 004 DIS, 9:05- 9:55 W, Amundson Hall 124, In Person Term Based; Meets With: 004 SCMC 1202W; Joseph Sannicandro; 4 cr.  
68964 005 DIS, 10:10-11:00 W, Amundson Hall 124, In Person Term Based; Meets With: 005 SCMC 1202W; Joseph Sannicandro; 4 cr.  
68960 001 LEC, 11:15-12:30 TTh, Anderson Hall 250, In Person Term Based; Meets With: 001 SCMC 1202W; Michelle Lekas; 4 cr.

68961 002 DIS, 9:05- 9:55 M, Amundson Hall 240, In Person Term Based; Meets With: 002 SCMC 1202W; Mikkel Vad; 4 cr.

68962 003 DIS, 10:10-11:00 M, Amundson Hall 240, In Person Term Based; Meets With: 003 SCMC 1202W; Mikkel Vad; 4 cr.

### 1301W Reading Culture: Theory and Practice

(Student Option; AH,WI)  
58487 001 LEC, 8:15- 9:30 MW, Nicholson Hall 355, In Person Term Based; Brad Bellatti; 4 cr.  
58493 003 LEC, 9:45-11:00 TTh, Nicholson Hall 355, In Person Term Based; Cole Pulice; 4 cr.  
58488 002 LEC, 11:15-12:05 MWF, Nicholson Hall 345, In Person Term Based; Aaron Thompson; 4 cr.

### 1401W Reading Literature: Theory and Practice

(Student Option; LITR,WI)  
58489 001 LEC, 8:15- 9:30 MW, Nicholson Hall 145, In Person Term Based; Emily Fedoruk; 4 cr.  
58490 002 LEC, 10:10-11:00 MWF, Nicholson Hall 345, In Person Term Based; Lyes Benarbane; 4 cr.  
58492 004 LEC, 18:20-20:50 W, Nicholson Hall 355, In Person Term Based; Nilofar Sarlati; 4 cr.  
58491 003 LEC, 16:00-17:15 TTh, Nicholson Hall 335, In Person Term Based; Aaron Thompson; 4 cr.

### 1501W Reading History: Theory and Practice

(Student Option; HIS,WI)  
48618 002 LEC, 18:20-20:50 Th, Nicholson Hall 145, In Person Term Based; Derk Renwick; 4 cr.  
48617 001 LEC, 11:15-12:30 TTh, Nicholson Hall 345, In Person Term Based; Jesse Lawson; 4 cr.

### 3173W The Rhetoric of Everyday Life

(Student Option; CIV,WI)  
52499 001 LEC, 14:30-15:45 TTh, Nicholson Hall 315, In Person Term Based; Erin Trapp; 3 cr.  
58494 002 LEC, 18:20-20:50 Th, Nicholson Hall 355, In Person Term Based; Justin Butler; 3 cr.

### 3174 Poetry as Cultural Critique

(Student Option; )  
60225 001 DIS, 11:15-12:30 TTh, Nicholson Hall 120, In Person Term Based; Erin Trapp; 3 cr.

### 3175 Comedy: Text and Theory

(Student Option; AH)  
57787 001 LEC, 16:00-17:15 MW, Nicholson Hall 155, In Person Term Based; Dylan Mohr; 3 cr.

### 3176 Oppositional Cinemas

(Student Option; GP)  
58543 001 LAB, 14:30-15:45 Th, Nicholson Hall 120, 14:30-17:15 T, Peik Hall 155, In Person Term Based; Andrea Gyenge; 4 cr.

### 3177 On Television

(Student Option; CIV)  
51301 001 LEC, 18:20-20:50 M, Nicholson Hall 110, In Person Term Based; Meredith Gill; 4 cr.  
58112 002 LEC, 14:30-15:45 MW, Nicholson Hall 125, In Person Term Based; Meredith Gill; 4 cr.

### 3178W Documentary Cinema: History and Politics

(Student Option; WI)  
58799 001 LEC, 17:30-20:30 W, Kolthoff Hall 135, In Person Term Based; Hongwei Chen; 4 cr.

### 3321W Theories of Culture

(Student Option; AH,WI)  
58496 001 LEC, 9:45-11:00 TTh, Nicholson Hall 345, In Person Term Based; Koel Banerjee; 3 cr.

### 3331 Science and Culture

(Student Option; AH)  
58800 001 LEC, 9:45-11:00 TTh, Rapson Hall 45, In Person Term Based; Robert Brown Jr; 3 cr.

### 3361 Visions of Nature: The Natural World and Political Thought

(Student Option; ENV)  
58497 001 LEC, 11:15-12:30 MW, Nicholson Hall 145, In Person Term Based; Meredith Gill; 3 cr.

### 3413W Psychoanalysis and Literature Part II: Post Freudian Criticism

(Student Option; WI)

68276 001 LEC, 14:30-15:45 MW, Nicholson Hall 355, In Person Term Based; Erin Trapp; 3 cr.

### 3456W Sexuality and Culture

(Student Option; DSJ,WI)  
56998 002 LEC, 16:00-17:15 TTh, Nicholson Hall 355, In Person Term Based; Aaron Thompson; 3 cr.  
54251 001 LEC, 13:00-14:15 MW, Nicholson Hall 35, In Person Term Based; Meets With: 001 GLBT 3456W; Aaron Thompson; 3 cr.

### 3458W The Body and the Politics of Representation

(Student Option; HIS,WI)  
60227 002 LEC, 16:00-17:15 TTh, Nicholson Hall 120, In Person Term Based; Erin Trapp; 3 cr.  
58498 001 LEC, 16:00-17:15 TTh, Murphy Hall 228, In Person Term Based; Aaron Thompson; 3 cr.

### 3461 Monsters, Robots, Cyborgs

(Student Option; LITR)  
53116 001 LEC, 13:00-14:15 MW, Nicholson Hall 275, In Person Term Based; Brad Stiffer; 3 cr.

### 3465 Aliens

(Student Option; DSJ)  
58114 001 LEC, 13:00-14:15 TTh, Nicholson Hall 345, In Person Term Based; Thomas Cannavino; 3 cr.

### 3621W Colonial and Postcolonial Literatures and Theory: 1700 to the Present

(Student Option; GP,WI,LITR)  
60228 001 LEC, 9:45-11:00 MW, Nicholson Hall 145, In Person Term Based; Courtney Gildersleeve; 3 cr.

### 3993 Directed Study

(Student Option; Prereq-instr consent, dept consent, college consent.)  
51076 001 IND, In Person Term Based; Aaron Thompson; 1-3 cr.

### 4944H Honors Thesis

(A-F only; Prereq: Candidate for honors in CSCL, consent of CSCL honors adviser)  
50286 001 IND, In Person Term Based; Aaron Thompson; 3 cr.

### 4993 Directed Study

(A-F or Audit; )  
52730 001 IND, In Person Term Based; Aaron Thompson; 1-3 cr.

### 5154W Theoretical Constructions of Space

(Student Option; WI)  
68402 001 DIS, In Person Term Based; 3 cr.

### 5305 Vision and Visuality: An Intellectual History

(A-F only; )  
68396 001 DIS, 14:30-15:45 TTh, Nicholson Hall 335, In Person Term Based; Keya Ganguly; 3 cr.

### 5501 Origins of Cultural Studies

(Student Option; )  
68397 001 LEC, 11:15-12:30 TTh, Nicholson Hall 145, In Person Term Based; Timothy Brennan; 3 cr.

### 5555 Introduction to Semiotics

(Student Option; )  
68399 001 LEC, 13:30-16:30 W, Nicholson Hall 315, In Person Term Based; Meets With: 001 CSDS 5555001 CL 5555; Aaron Thompson; 3 cr.

### 5910 Topics in Cultural Studies and Comparative Literature

(Student Option; )  
58544 001 LEC, In Person Term Based; 3-4 cr.  
68407 002 LEC, 16:00-17:15 MW, Nicholson Hall 355, In Person Term Based; Michael Gallope; 3-4 cr.

### 5993 Directed Study

(Student Option; Prereq-instr consent, dept consent, college consent.)  
47569 001 IND, In Person Term Based; Aaron Thompson; 1-3 cr.

## Curriculum and Instruction (CI)

**1001 Introduction to the Elementary School**

(A-F or Audit; )  
48607 002 LEC, 11:15-12:30 TTh, Peik Hall 215, In Person Term Based; ; 3 cr.  
53520 003 LEC, 13:00-14:15 TTh, Peik Hall 215, In Person Term Based; Vicki Griffin; 3 cr.  
47040 001 LEC, 9:45-11:00 TTh, Peik Hall 215, In Person Term Based; Shelley Berken; 3 cr.

**1904 Freshman Seminar, Global**

**Perspectives**  
(Student Option No Audit; Prereq: Freshman)  
68722 001 LEC, 9:45-11:00 TTh, Peik Hall 31, In Person Term Based; Jennifer Franko; 1-3 cr.

**1908W Freshman Seminar: Citizenship and Public Ethics, Writing Intensive (C/PE, WI)**

(Student Option; Prereq: FrWI)  
67552 001 LEC, In Person Term Based; Jennifer Franko; 1-3 cr.

**2311W Introduction to Technology and**

**Ethics in Society**  
(Student Option; CIV,WI)  
52769 002 LEC, Completely Online; Roxanne Weymouth; 3 cr.  
57324 004 LEC, Completely Online; Roxanne Weymouth; 3 cr.  
52332 001 LEC, Completely Online; Vicki Griffin; 3 cr.  
55882 003 LEC, Completely Online; Vicki Griffin; 3 cr.

**2312 Sex, Drugs, and the Internet:**

**Educational Perspectives**  
(A-F only; )  
56499 002 DIS, Completely Online; Roxanne Weymouth; 3 cr.  
57326 004 DIS, Completely Online; Roxanne Weymouth; 3 cr.  
56498 001 DIS, Completely Online; Vicki Griffin; 3 cr.  
57325 003 DIS, Completely Online; Vicki Griffin; 3 cr.

**3001 Survey of Art Activities**

(A-F or Audit; )  
56053 002 LAB, 9:05-11:00 F, Peik Hall 40, In Person Term Based; Betsy Maloney Leaf; 2 cr.  
56052 001 LAB, 9:05-11:00 W, Peik Hall 40, In Person Term Based; Timothy Babulski; 2 cr.

**3211 Introduction to Elementary Teaching**

(A-F only; Prereq: [Elementary ed or early childhood ed foundations major], concurrent practicum experience)  
55571 001 DIS, 9:45-11:00 MW, Peik Hall 215, In Person Term Based; ; 3 cr.  
55572 002 DIS, 14:30-15:45 TTh, Peik Hall 215, In Person Term Based; Katherine Byrn; 3 cr.

**3212 Practicum: Elementary Teaching**

(S-N only; Prereq: concurrent registration is required (or allowed) in 5111, [elementary education foundations or early childhood foundations] major)  
55450 001 FWK, 8:00-11:45 TTh, Room TBA, In Person Term Based; Katherine Byrn; 2 cr.

**3283 Practicum: Special Education K-6**

(S-N only; Prereq: concurrent registration is required (or allowed) in EDPSY 5613, concurrent registration is required (or allowed) in EDPSY 5616, elementary education: foundations major)  
55451 001 FWK, 7:30-11:30 TTh, No Room Required, In Person Term Based; ; 2 cr.

**3401W Diversity in Children's Literature**

(A-F or Audit; WI)  
54512 002 LEC, 15:30-18:00 M, Peik Hall 365, In Person Term Based; Sandrah Morande; 3 cr.  
52557 001 LEC, 12:20-15:00 M, Peik Hall 365, In Person Term Based; Megan McDonald Van Deventer; 3 cr.  
54513 003 LEC, 12:20-15:00 W, Peik Hall 48, In Person Term Based; Sandrah Morande; 3 cr.

**3610 Linguistics for Teachers**

(A-F only; SOCS)  
60087 003 LEC, 10:15-11:30 MW, Peik Hall 315, In Person Term Based; Jennifer Franko; 3 cr.  
57019 002 LEC, 14:30-15:45 TTh, Peik Hall 335, In Person Term Based; Sandrah Morande; 3 cr.  
57018 001 LEC, 14:30-15:45 MW, Wulling Hall 220, In Person Term Based; Vicki Griffin; 3 cr.

**3611W Basics in Teaching English as a Second Language**

(Student Option No Audit; WI)  
60089 003 LEC, 14:30-16:30 MW, Peik Hall 31, In Person Term Based; Sandrah Morande; 4 cr.  
58995 002 LEC, 14:30-16:25 TTh, Peik Hall 31, In Person Term Based; Sandrah Morande; 4 cr.  
58994 001 LEC, 16:40-20:30 M, Peik Hall 48, In Person Term Based; Sandrah Morande; 4 cr.

**3612 Introduction to Pronunciation and Grammar for ESL Teachers**

(Student Option No Audit; Prereq: An Introduction to Linguistics course, e.g., CI 3610 or LING 3001)  
58996 001 LEC, 10:10-12:05 MW, Peik Hall 31, In Person Term Based; Sandrah Morande; 4 cr.  
58997 002 LEC, 13:00-15:30 TTh, Peik Hall 365, In Person Term Based; Sandrah Morande; 4 cr.

**3613 Practical Language Learning for International Communication**

(Student Option No Audit; )  
58998 001 LEC, 14:30-15:45 MW, Peik Hall 215, In Person Term Based; Sandrah Morande; 3 cr.  
58999 002 LEC, In Person Term Based; Jennifer Franko; 3 cr.

**4121 Culture Power and Education**

(A-F only; )  
61203 001 DIS, 9:05-11:00 W, Peik Hall 355, In Person Term Based; ; 2-3 cr.

**4122 Social Class Education and Pedagogy**

(A-F only; )  
61204 001 DIS, 17:00-19:00 M, Peik Hall 355, In Person Term Based; Alissa Case; 2-3 cr.

**4311W Technology and Ethics in Society**

(Student Option; CIV,WI)  
55377 002 LEC, Completely Online; Roxanne Weymouth; 3 cr.  
55376 001 LEC, Completely Online; Vicki Griffin; 3 cr.

**4312 Sex, Drugs, and the Internet:**

**Educational Perspectives**  
(A-F only; )  
56507 002 DIS, Completely Online; Roxanne Weymouth; 3 cr.  
56501 001 DIS, Completely Online; Vicki Griffin; 3 cr.

**4602 English Learners and Academic**

**Language**  
(A-F only; )  
67538 001 DIS, Primarily Online; Susan Ranney; 1 cr.  
67539 002 DIS, Primarily Online; Susan Ranney; 1 cr.  
67540 003 DIS, Primarily Online; Susan Ranney; 1 cr.

**5008 Theory and Practice of Teaching Art in Elementary Schools**

(A-F or Audit; )  
56057 101 LEC, 9:30-12:30 MWF, Peik Hall 40, 9:30-12:30 W, Peik Hall 25, In Person Term Based; James Bequette; 1-2 cr.

**5097 Student Teaching in Art Education**

(S-N or Audit; )  
57460 001 FWK, 16:40-19:20 M, Peik Hall 40, In Person Term Based; Betsy Maloney Leaf; 8 cr.

**5145 Critical Pedagogy**

(A-F or Audit; )  
57623 001 DIS, 13:25-16:05 T, Peik Hall 46, In Person Term Based; Timothy Lensmire; 3 cr.

**5155 Contemporary Approaches to Curriculum: Instruction and Assessment**

(A-F or Audit; Prereq: Grad students only)  
68277 001 LEC, 16:40-19:20 M, Wulling Hall 240, In Person Term Based; Alissa Case; 3 cr.

**5181 Clinical Experience in Elementary School Teaching**

(S-N or Audit; Prereq: Foundations of education and elem ed initial licensure only)  
46744 001 FWK, In Person Term Based; Katherine Byrn; 2-10 cr.

**5187 Practicum: Improvement of Teaching in Elementary or PreKindergarten Schools**

(S-N or Audit; Prereq: Students in early childhood educ M Ed, or elem educ M Ed, or teaching M Ed)  
46975 001 FWK, Primarily Online; Cheryl Rosebrook; 2-3 cr.

46975 001 FWK, Primarily Online; Cheryl Rosebrook; 2-3 cr.

**5213 Elementary Education Content and Pedagogy III**

(A-F only; )  
67555 001 DIS, In Person Term Based; Kara Coffino; 3 cr.

**5214 Elementary Education Content and Pedagogy IV**

(A-F only; )  
68738 200 DIS, In Person Term Based; Katherine Byrn; 3 cr.

**5215 Elementary Education Content and Pedagogy V**

(A-F only; )  
68727 200 DIS, In Person Term Based; Jennifer Franko; 2 cr.  
67556 001 DIS, In Person Term Based; Kara Coffino; 2 cr.

**5283 Practicum: Applying Instructional Methods in the Elementary Classroom**

(S-N only; Prereq: M.Ed./Elementary education initial licensure student, enrolled in elementary education methods course)

60090 001 FWK, In Person Term Based; Roxanne Weymouth; 3 cr.

**5285 Clinical Experience in Elementary School Teaching**

(S-N only; Prereq: M.Ed./Elementary education initial licensure students)  
57625 003 FWK, 7:30-16:30 MTWThF, No Room Required, In Person Term Based; Katherine Byrn; 12 cr.  
57624 002 FWK, 7:30-16:30 MTWThF, Room TBA, In Person Term Based; Katherine Byrn; 12 cr.  
56906 001 FWK, 7:30-16:00 MTWThF, No Room Required, In Person Term Based; Katherine Byrn; 12 cr.

**5286 Student Teaching Seminar: Elementary Education**

(A-F only; Prereq: M.Ed./Elementary education initial licensure only)  
56907 001 LEC, 16:40-19:20 W, Peik Hall 40, In Person Term Based; Katherine Byrn; 3 cr.  
56909 003 LEC, 16:40-19:20 W, Peik Hall 48, In Person Term Based; Roxanne Weymouth; 3 cr.  
56908 002 LEC, In Person Term Based; Shelley Berken; 3 cr.

**5287 Capstone Project: Improvement of Teaching in Elementary and Pre-Kindergarten Schools**

(A-F only; Prereq: M.Ed./Elementary education initial licensure student)  
58524 002 FWK, 16:00-18:00 F, Peik Hall 365, In Person Term Based; Roxanne Weymouth; 3 cr.  
58460 001 FWK, 16:00-18:00 F, Peik Hall 355, In Person Term Based; Vicki Griffin; 3 cr.  
58525 003 FWK, 16:00-18:00 F, Peik Hall 385, In Person Term Based; Vicki Griffin; 3 cr.

**5301 Foundations of Computer Applications for Business and Education**

(A-F only; )  
55614 001 DIS, Completely Online; Chuck McGill; 3 cr.  
55615 002 DIS, Completely Online; Chuck McGill; 3 cr.  
55616 003 DIS, Completely Online; Chuck McGill; 3 cr.  
58508 004 DIS, Completely Online; Chuck McGill; 3 cr.

**5307 Technology for Teaching and Learning**

(A-F or Audit; Prereq: [MEd/initial licensure or CLA music ed major or preteaching major or instr consent], basic computer skills)  
49783 004 LAB, 16:30-19:30 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, 16:20-19:20 W, Lrng & Environmental Sci R250, Partially Online; ; 1.5 cr.  
46443 003 LAB, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, Lrng & Environmental Sci R260, Partially Online; ; 1.5 cr.  
46442 002 LAB, 16:30-19:30 W, Lrng & Environmental Sci R260, 16:30-19:30 W, McNeal Hall 395, 16:30-19:30 W, McNeal Hall 395, 16:30-19:30 W, McNeal Hall 395,

16:30-19:30 W, McNeal Hall 395, 16:30-19:30 W, McNeal Hall 395, 16:30-19:30 W, McNeal Hall 395, Partially Online; Cassandra Scharber; 1.5 cr.  
 46441 001 LAB, 16:30-19:30 Th, Lrng & Environmental Sci R260, 16:30-19:30 Th, Lrng & Environmental Sci R260, 16:30-17:20 Th, Lrng & Environmental Sci R260, 16:30-17:20 Th, Lrng & Environmental Sci R260, 16:30-17:20 Th, Lrng & Environmental Sci R260, 16:30-17:20 Th, Lrng & Environmental Sci R260, 16:30-19:30 Th, Lrng & Environmental Sci R260, Partially Online; Cassandra Scharber; 1.5 cr.  
 68034 005 LAB, 16:30-19:30 T, Lrng & Environmental Sci R260, Partially Online; Daryl Boeckers; 1.5 cr.

### 5323 Online Learning Communities

(A-F or Audit; )  
 55548 001 LEC, Completely Online; Roxanne Weymouth; 3 cr.

### 5330 Special Topics in Learning

**Technologies**  
 (A-F or Audit; )  
 69040 002 LEC, Completely Online; 1-3 cr.  
 69040 002 LEC, Completely Online; 1-3 cr.  
 61091 001 LEC, In Person Term Based; Jennifer Franko; 1-3 cr.  
 61091 001 LEC, In Person Term Based; Jennifer Franko; 1-3 cr.

### 5351 Technology Tools for Educators

(A-F or Audit; )  
 60083 001 LEC, In Person Term Based; Vicki Griffin; 3 cr.

### 5361 Teaching and Learning with the Internet

(A-F or Audit; )  
 46668 001 LEC, Completely Online; Roxanne Weymouth; 3 cr.

### 5362 Foundations of Interactive Design for Web-based Learning

(A-F or Audit; )  
 67523 001 LEC, In Person Term Based; Jennifer Franko; 3 cr.

### 5363 New Media and Interaction Design for Online and Mobile Learning

(A-F or Audit; )  
 60084 001 LEC, In Person Term Based; Vicki Griffin; 3 cr.

### 5367 Interactive Multimedia Instruction

(A-F or Audit; Prereq: Knowledge of principles and procedures of CBI design and one multimedia authoring system)  
 58514 001 LEC, In Person Term Based; Roxanne Weymouth; 3 cr.

### 5390 Learning Technologies Field

**Experiences**  
 (S-N only; Prereq: Students in teachers of computers/ keyboarding/related technology applications additional licensure program)  
 56758 001 FWK, Partially Online; Chuck McGill; 2 cr.

### 5404 Multicultural Literature for Children and Adolescents

(A-F or Audit; )  
 67566 001 DIS, 16:40-19:20 T, Peik Hall 355, In Person Term Based; Vicki Griffin; 3 cr.

### 5410 Special Topics in the Teaching of Literacy

(Student Option; )  
 67569 002 LEC, In Person Term Based; David O'Brien; 1-3 cr.

### 5413 Foundations of Reading

(A-F or Audit; Prereq: CI 3610 and concurrent registration with CI 5414)  
 55575 002 LEC, 8:00-12:30 TTh, Peik Hall 46, In Person Term Based; Gail Jordan; 3 cr.  
 55574 001 LEC, 8:00-12:30 MW, Peik Hall 46, In Person Term Based; Kathryn Allen; 3 cr.  
 67570 003 LEC, 8:00-12:30 TTh, Peik Hall 48, In Person Term Based; Kristin Burger; 3 cr.

### 5414 Practicum: Working With Developing Readers

(S-N only; Prereq: CI 3610 and concurrent registration with CI 5413 required; elementary education foundations major)

55573 001 FWK, In Person Term Based; Kathryn Allen; 2 cr.

### 5425 Reading Instruction in the Elementary Grades

(A-F only; Prereq: [Elementary or early childhood] licensure student)  
 55545 001 DIS, In Person Term Based; Keitha-Gail Martin-Kerr; 3 cr.

### 5426 Language Arts Instruction in the Elementary Grades

(A-F only; Prereq: Elementary or early childhood licensure student)  
 55546 001 DIS, In Person Term Based; Keitha-Gail Martin-Kerr; 3 cr.

### 5433 Instructional Leadership in Reading for the Middle and Secondary Grades

(A-F or Audit; Prereq: 5432)  
 67571 001 LEC, Completely Online; David O'Brien; 3 cr.

### 5452 Reading in the Content Areas for Initial Licensure Candidates

(A-F only; Prereq: Concurrent enrollment in licensure area methods course(s), enrolled in Initial Licensure Program, Internet access, basic understanding of [computer use, Web browsers, email, word processing software])  
 57908 002 LEC, Completely Online; Andrew Rummel; 1-2 cr.  
 57909 003 LEC, Completely Online; Andrew Rummel; 1-2 cr.  
 57910 005 LEC, Completely Online; Christopher Kolb; 1-2 cr.  
 53858 006 LEC, Completely Online; Christopher Kolb; 1-2 cr.  
 53857 001 LEC, Completely Online; David O'Brien; 1-2 cr.

### 5461 Teaching Composition in the Secondary School

(A-F or Audit; )  
 59158 001 LEC, 12:25-16:25 T, Peik Hall 355, In Person Term Based; Lee Fisher; 3 cr.

### 5481 Developments in Teaching English and Speech

(A-F or Audit; )  
 46742 001 LEC, 12:25-16:25 Th, Peik Hall 355, In Person Term Based; Jessica Dockter Tierney; 3 cr.

### 5496 Directed Experiences in Teaching English

(S-N or Audit; Prereq: MEd/initial licensure students in English ed only)  
 54432 001 FWK, In Person Term Based; ; 4-8 cr.

### 5502 Science Instruction in the Elementary Grades

(A-F or Audit; Prereq: Early Childhood or Elementary Education ILP)  
 57265 001 LEC, In Person Term Based; ; 3 cr.

### 5513 Secondary Science Methods: Equity in Science Teaching

(A-F only; )  
 67557 001 FWK, Partially Online; Kara Coffino; 3 cr.

### 5515 Secondary Science Methods: Developing Adaptive Expertise

(A-F only; )  
 67558 001 FWK, Partially Online; Kara Coffino; 3 cr.

### 5532 Teaching Secondary School Science

(A-F or Audit; Prereq: Admission to initial licensure program in science)  
 51808 001 LEC, 16:40-19:20 Th, Lrng & Environmental Sci 139B, In Person Term Based; Barbara Billington; 3 cr.

### 5535 Foundations of Science Education

(A-F or Audit; Prereq: M.Ed., grad student, or instr consent)  
 47073 001 LEC, 16:40-19:20 W, Lrng & Environmental Sci 139A, In Person Term Based; Fred Finley; 3 cr.

### 5552 Reflecting on Science Classroom Practices II

(A-F only; )  
 68505 001 DIS, Completely Online; Barbara Billington; 1.5 cr.

### 5597 Clinical Experience in Secondary School Science Teaching

(S-N or Audit; Prereq: initial licensure or instr consent)  
 47377 001 FWK, In Person Term Based; ; 4-8 cr.

### 5613 Testing and Assessment for English Learners

(A-F only; )  
 67559 001 DIS, Partially Online; Kara Coffino; 3 cr.

### 5615 Academic English for English Learners: Planning, Assessment, Instruction

(A-F only; )  
 67560 001 FWK, Partially Online; Kara Coffino; 2 cr.

### 5618 Academic Language and English Learners II

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
 57747 002 FWK, Primarily Online; Jennifer Franko; 1 cr.  
 57749 004 FWK, Primarily Online; Kristina Pearson; 1 cr.  
 57748 003 FWK, Primarily Online; Vicki Griffin; 1 cr.  
 57750 005 FWK, Primarily Online; Vicki Griffin; 1 cr.  
 57734 001 FWK, Primarily Online; Vicki Griffin; 1 cr.  
 57747 002 FWK, Primarily Online; Jennifer Franko; 1 cr.  
 57749 004 FWK, Primarily Online; Kristina Pearson; 1 cr.  
 57748 003 FWK, Primarily Online; Vicki Griffin; 1 cr.  
 57750 005 FWK, Primarily Online; Vicki Griffin; 1 cr.  
 57734 001 FWK, Primarily Online; Vicki Griffin; 1 cr.

### 5634 Content-Based Instruction in Second Language Settings

(A-F or Audit; Prereq: SLC initial licensure only)  
 46729 001 LEC, 13:25-16:25 Th, Peik Hall 46, In Person Term Based; Susan Ranney; 3 cr.

### 5635 Culture and Diversity in Second Language Classrooms

(Student Option; Prereq: Initial licensure program only)  
 46716 001 LEC, 13:25-16:25 T, Peik Hall 40, In Person Term Based; Karla Stone; 3 cr.

### 5645 Teaching English Learners in the Elementary Classroom

(A-F only; Prereq: Early Childhood or Elementary Education ILP)  
 57260 001 LEC, In Person Term Based; Vicki Griffin; 3 cr.

### 5648 Advanced Practices in Teaching Academic Language

(A-F only; Prereq: Grad student, instr consent)  
 58521 001 DIS, Completely Online; Jennifer Franko; 3 cr.

### 5649 Language Analysis for ESL Teaching in Higher Ed

(Student Option No Audit; Prereq: 5646)  
 59000 001 LEC, 13:25-15:20 MW, Peik Hall 355, In Person Term Based; Sandrah Morande; 4 cr.

### 5654 Practicum in Teaching English as a Second Language (ESL) in Higher Education

(S-N only; Prereq: 5653)  
 59001 001 FWK, 16:40-19:20 M, Wulling Hall 220, In Person Term Based; Michael Anderson; 6 cr.

### 5657 Teaching Speaking and Listening in Second Language Classrooms

(A-F or Audit; )  
 53527 001 LEC, 16:40-19:20 W, Peik Hall 365, In Person Term Based; Sandrah Morande; 3 cr.

### 5660 Special Topics in the Teaching of Second Languages and Cultures

(Student Option; )  
 60786 001 LEC, Completely Online; Sandrah Morande; 1-4 cr.

### 5662 Second Language Curriculum Design

(A-F or Audit; )  
 54092 001 LEC, 16:40-19:20 Th, Peik Hall 385, In Person Term Based; Sandrah Morande; 3 cr.

### 5671 Curriculum Development and Assessment in Dual Language/Immersion Classrooms

(Student Option; Prereq: instr consent)  
 68231 003 LEC, Completely Online; Diane Tedick; 3 cr.  
 67572 001 LEC, Completely Online; Diane Tedick; 3 cr.  
 67573 002 LEC, Completely Online; Diane Tedick; 3 cr.

### 5693 Directed Study in Second Languages and Cultures

(Student Option; Prereq: instr consent)  
52334 001 LEC, Completely Online; ; 1-4 cr.

**5696 Practicum: Teaching World Languages and Cultures in Elementary Schools**

(Student Option; Prereq: 5619, adviser approval; credits cannot be counted on a graduate degree program for endorsement candidates)  
46684 001 LEC, In Person Term Based; Patricia Thornton; 2-6 cr.

**5697 Practicum: ESL in the Elementary School**

(Student Option; Prereq: Adviser approval)  
52342 001 LEC, In Person Term Based; Jennifer Franko; 2-6 cr.

**5698 Student Teaching in Second Languages and Cultures**

(Student Option; Prereq: Adviser approval; credits cannot be counted on a graduate degree program)  
46973 001 FWK, In Person Term Based; Jennifer Franko; 2-6 cr.

**5699 Clinical Experiences in Second Languages**

(A-F or Audit; Prereq: SLC initial licensure program only)  
46974 001 FWK, In Person Term Based; Jennifer Franko; 3-12 cr.  
46974 001 FWK, In Person Term Based; Jennifer Franko; 3-12 cr.

**5702 Social Studies Instruction in the Elementary Grades**

(A-F only; Prereq: Early Childhood or Elementary Education ILP)  
57266 001 LEC, In Person Term Based; ; 3 cr.

**5744 Seminar: Reflecting on Professional Development in Social Studies Education**

(A-F only; Prereq: Secondary social studies initial licensure student)  
46885 001 LEC, In Person Term Based; Jennifer Franko; 3 cr.

**5782 Clinical Experiences in Teaching Social Studies**

(S-N or Audit; Prereq: MEd/initial licensure student)  
48519 001 FWK, In Person Term Based; Jennifer Franko; 1-8 cr.

**5813 Teaching Geometry**

(A-F only; )  
67565 001 FWK, Partially Online; Kara Coffino; 3 cr.

**5815 Leadership in Mathematics Education**

(A-F only; )  
67563 001 FWK, Partially Online; Kara Coffino; 2 cr.

**5822 Mathematics Instruction in the Elementary Grades**

(A-F or Audit; Prereq: Early Childhood or Elementary Education ILP)  
57267 001 LEC, In Person Term Based; Terrence Wyberg; 3 cr.

**5980 Clinical Experiences for K-12 Teaching**

(S-N only; )  
67564 001 FWK, Partially Online; Kara Coffino; 1-4 cr.  
68737 200 FWK, In Person Term Based; Katherine Byrn; 1-4 cr.

**5985 Academic Language and English Learners in the Content Areas**

(A-F only; )  
68739 200 FWK, In Person Term Based; Katherine Byrn; 1 cr.

**5988 Clinical Experience: Improvement of Teaching**

(A-F only; )  
67561 001 FWK, In Person Term Based; Kara Coffino; 2 cr.  
67562 002 FWK, Partially Online; Kara Coffino; 2 cr.

**8131 Curriculum and Instruction Core: Critical Examination of Curriculum in Context**

(A-F or Audit; Prereq: CI PhD or MA student or instr consent)  
49618 001 LEC, 16:40-19:20 W, Elliott Hall N647, In Person Term Based; J.B. Mayo; 3 cr.

**8132 Curriculum and Instruction Core: Teaching Theory and Research**

(A-F or Audit; Prereq: CI PhD or MA student or instr consent)  
52335 001 LEC, 13:25-16:05 T, Peik Hall 25, In Person Term Based; J.B. Mayo; 3 cr.

**8133 Research Methods in Curriculum and Instruction**

(A-F or Audit; Prereq: CI PhD or MA student or instr consent)  
52338 001 LEC, 13:25-16:05 Th, Peik Hall 40, In Person Term Based; David O'Brien; 3 cr.

**8148 Conducting Qualitative Studies in Educational Contexts**

(Student Option; Prereq: CI 8133 and [CI or OLPD PhD student])  
54783 001 LEC, 16:40-19:20 M, Peik Hall 385, In Person Term Based; Timothy Lensmire; 3 cr.

**8150 Research Topics in Curriculum & Instruction**

(Student Option; )  
68748 005 LEC, 13:25-16:25 W, Peik Hall 365, In Person Term Based; James Bequette; 1-6 cr.  
68037 003 LEC, 13:25-16:05 W, Peik Hall 46, In Person Term Based; Kendall King; 1-6 cr.  
67580 002 LEC, In Person Term Based; Nina Asher; 1-6 cr.  
68278 004 LEC, 16:40-19:20 W, Peik Hall 355, In Person Term Based; Thom Swiss; 1-6 cr.  
53796 001 LEC, 16:40-19:20 W, Peik Hall 315, In Person Term Based; Roxanne Weymouth; 1-6 cr.

**8162 Research Experience II: Data Analysis and Manuscript Preparation**

(Student Option No Audit; Prereq: 8161)  
67587 001 LEC, 9:05-11:45 M, Peik Hall 48, In Person Term Based; Kendall King; 3 cr.

**8195 Problems: Improvement of Instruction**

(Student Option; Prereq: instr consent)  
67588 001 IND, In Person Term Based; Jennifer Franko; 1-6 cr.

**8198 Problems: Teacher Education**

(Student Option; Prereq: instr consent)  
53131 001 IND, In Person Term Based; ; 1-6 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser approval, DGS approval)  
50767 001 IND, In Person Term Based; Roxanne Weymouth; 1 cr.

**8350 Special Topics in Learning Technologies**

(A-F or Audit; )  
61090 001 DIS, 17:00-20:00 W, Magrath Library 8, In Person Term Based; Jennifer Franko; 1-3 cr.

**8395 Directed Study: Learning Technologies**

(A-F only; Prereq: instr consent)  
50249 001 IND, In Person Term Based; Vicki Griffin; 1-6 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser approval, DGS approval)  
50768 001 IND, In Person Term Based; Roxanne Weymouth; 1 cr.

**8461 Sociocultural Theory, Education, and Literacy**

(Student Option; )  
60391 001 LEC, 16:40-19:20 Th, Peik Hall 365, In Person Term Based; Cynthia Lewis; 3 cr.

**8470 Special Topics on Literacy**

(Student Option; Prereq: [MA or PhD] student)  
60392 001 LEC, 16:40-19:20 T, Peik Hall 365, In Person Term Based; Lori Helman; 1-6 cr.

**8570 Advanced Topics in Science Education**

(A-F or Audit; Prereq: CI grad student or instr consent)  
56926 001 LEC, 16:40-19:20 M, Lrng & Environmental Sci 139B, In Person Term Based; Barbara Billington; 1-4 cr.

**8573 Nature of Inquiry in STEM Education**

(A-F only; Prereq: MA or PhD student or instr consent)  
67589 001 DIS, 16:40-19:20 M, Lrng & Environmental Sci 139A, In Person Term Based; Jennifer Franko; 3 cr.

**8595 Problems: Science Education**

(Student Option; Prereq: CI grad student or instr consent)  
47462 001 IND, In Person Term Based; Fred Finley; 1-6 cr.

**8650 Seminar: Special Topics in Second Languages and Cultures Research**

(Student Option; Prereq: CI grad student or instr consent)  
55453 001 LEC, 13:25-16:25 W, Burton Hall 123, In Person Term Based; Elaine Tarone; 1-3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
50769 001 IND, In Person Term Based; Roxanne Weymouth; 1-6 cr.

**8691 Readings in Second Languages and Cultures Education**

(Student Option; Prereq: instr consent)  
46688 001 IND, In Person Term Based; ; 1-3 cr.

**8695 Problems: Second Languages and Cultures Education**

(Student Option; Prereq: instr consent)  
46687 001 IND, In Person Term Based; Martha Bigelow; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; )  
52725 001 IND, In Person Term Based; Patricia Avery; 1-18 cr.

**8795 Problems: Social Studies Education**

(Student Option; Prereq: CI grad student or instr consent)  
50248 001 IND, In Person Term Based; Patricia Avery; 1-6 cr.

**8796 Research Internship in Social Studies Education**

(A-F or Audit; Prereq: CI grad student)  
52484 001 FWK, In Person Term Based; Patricia Avery; 1-6 cr.

**8888 Thesis Credits: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
50770 001 IND, In Person Term Based; Roxanne Weymouth; 1-24 cr.

**8913 Interpretive Research**

(A-F only; )  
58528 001 LEC, 16:40-19:20 T, Peik Hall 31, In Person Term Based; Mark Vagle; 3 cr.

**Dakota (DAKO)**

**1122 Beginning Dakota II**

(Student Option; Prereq: 1121)  
55043 002 LEC, In Person Term Based; 5 cr.  
54376 001 LEC, 11:15-12:05 MTWThF, Scott Hall 4, In Person Term Based; Meets With: 001 DAKO 4122; Wayne Bendickson; 5 cr.

**3124 Intermediate Dakota II**

(Student Option; Prereq: 1121, 1122, 3123)  
54377 001 LEC, 12:20-13:10 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 DAKO 4124; Wayne Bendickson; 5 cr.

**3127 Dakota Language for Teachers**

(A-F only; Prereq: 1121)  
56819 001 LEC, 9:45-11:00 TTh, Burton Hall 125, In Person Term Based; Neil McKay; 3 cr.

**4122 Beginning Dakota II**

(Student Option; Prereq: [1121, 1004 in another language] or passing score on LPE or grad student)  
57345 003 LEC, In Person Term Based; 3 cr.  
55120 001 LEC, 11:15-12:05 MTWThF, Scott Hall 4, In Person Term Based; Meets With: 001 DAKO 1122; Wayne Bendickson; 3 cr.

#### 4124 Intermediate Dakota II

(Student Option; Prereq: 1121, 1122, 3123)  
55925 001 LEC, 12:20-13:10 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 DAKO 3124; Wayne Bendickson; 3 cr.

#### 5129 Advanced Dakota Language II

(A-F or Audit; )  
54300 001 LEC, 14:30-15:20 MWF, Nicholson Hall 145, In Person Term Based; Neil McKay; 3 cr.

### Dance (DNCE)

#### 1001 Modern Dance Technique 1

(Student Option; )  
57912 001 LAB, 10:10-11:40 TTh, Barbara Barker Ctr Dance 300, In Person Term Based; Erin Thompson; 1 cr.

#### 1002 Modern Dance Technique 2

(Student Option; Prereq: 1001 or audition or instr consent)  
54782 001 LAB, 20:00-21:15 MW, Barbara Barker Ctr Dance 200, In Person Term Based; Angharad Davies; 1 cr.

#### 1020 Modern Dance Technique 4

(Student Option; Prereq: 1010, dept consent, audition)  
47468 001 LAB, 12:20-13:50 TTh, Barbara Barker Ctr Dance 300, In Person Term Based; Laura Anne Virtucio; 1-2 cr.  
50492 002 LAB, 12:20-13:50 M, Barbara Barker Ctr Dance 200, 12:20-13:50 F, Barbara Barker Ctr Dance 300, 12:20-13:50 TTh, Barbara Barker Ctr Dance 100, In Person Term Based; Emilie Plauche Flink; 1-2 cr.

#### 1040 Modern Dance Partnering Technique

(A-F only; Prereq: Dance major or instr consent)  
60583 001 LAB, 14:05-15:35 W, Barbara Barker Ctr Dance 300, In Person Term Based; Scott Rink; 1 cr.

#### 1102 Ballet Technique 2

(Student Option; Prereq: 1101, or audition, or instr consent)  
47427 001 LAB, 17:00-18:15 MW, , In Person Term Based; Tina Wallum; 1 cr.

#### 1120 Ballet Technique 4

(Student Option; Prereq: 1110, dept consent, audition)  
47411 001 LAB, 8:25- 9:55 MWF, Barbara Barker Ctr Dance 100, In Person Term Based; Tina Wallum; 2 cr.

#### 1202 Jazz Technique 2

(Student Option; Prereq: 1201 or audition or instr consent)  
47509 001 LAB, 18:30-19:45 TTh, Barbara Barker Ctr Dance 200, In Person Term Based; Karla Grotting; 1 cr.

#### 1220 Jazz Technique 4

(Student Option; Prereq: 1210, dept consent, audition)  
47510 001 LAB, 8:25- 9:55 TTh, Barbara Barker Ctr Dance 100, In Person Term Based; Karla Grotting; 1 cr.

#### 1302 Tap Technique 2

(Student Option; Prereq: 1301 or instr consent)  
47259 001 LAB, 17:00-18:15 TTh, , In Person Term Based; Ellen Keane; 1 cr.

#### 1313 African Based Movement

(Student Option; )  
50489 001 LAB, 18:30-19:45 MW, Barbara Barker Ctr Dance 200, In Person Term Based; Patricia Brown; 1 cr.

#### 1315 Flamenco

(Student Option; )  
57098 001 LAB, 18:30-19:45 MW, , In Person Term Based; Suzanne Hauser; 1 cr.

#### 1331 Yoga

(Student Option; )  
51145 001 LAB, 8:25- 9:55 TTh, , In Person Term Based; Dustin Maxwell; 1 cr.  
52941 002 LAB, 10:10-11:40 TTh, , In Person Term Based; Dustin Maxwell; 1 cr.

#### 1343 Hip Hop Movement

(Student Option No Audit; )

58417 001 LAB, 12:20-13:50 W, , In Person Term Based; Jason Noer; 1 cr.

#### 1345 Alexander Technique for Movement Artists

(Student Option No Audit; )  
56322 001 LAB, 12:20-13:50 W, Barbara Barker Ctr Dance 300, In Person Term Based; Erin Thompson; 2 cr.

#### 1349 Contact Improvisation

(Student Option; )  
67695 001 LAB, 14:05-15:35 W, Barbara Barker Ctr Dance 300, In Person Term Based; Kristin Vanloon; 1 cr.

#### 1352 African Diasporic Movement 2

(Student Option No Audit; Prereq: 1351 recommended)  
56546 001 LAB, 10:10-11:40 Th, Barbara Barker Ctr Dance 200, 10:10-11:40 T, Barbara Barker Ctr Dance 100, In Person Term Based; Patricia Brown; 1 cr.

#### 1354 African Diasporic Movement 4

(Student Option No Audit; Prereq: 1353 or audition or instr consent)  
56547 001 LAB, 10:10-11:40 Th, Barbara Barker Ctr Dance 100, 10:10-11:40 T, Barbara Barker Ctr Dance 200, In Person Term Based; Whitney McClusky; 1 cr.

#### 1401 Introduction to Dance

(Student Option No Audit; AH)  
49816 001 LEC, 10:10-11:40 W, , 10:10-11:40 M, Blegen Hall 215, In Person Term Based; Cindy Garcia; 3 cr.  
57097 002 LEC, 18:30-21:15 W, Barbara Barker Ctr Dance 301, In Person Term Based; Rachmi Diyah Larasati; 3 cr.

#### 3020 Modern Dance Technique 6

(Student Option; Prereq: 3010, dept consent, audition)  
47502 001 LAB, 14:05-15:35 MTh, Barbara Barker Ctr Dance 100, 14:05-15:35 F, Barbara Barker Ctr Dance 300, 14:05-15:35 T, Barbara Barker Ctr Dance 200, In Person Term Based; Joan Smith; 2 cr.

#### 3120 Ballet Technique 6

(Student Option; Prereq: 3110, dept consent, audition)  
49000 002 LAB, 8:25- 9:55 MWF, Barbara Barker Ctr Dance 300, In Person Term Based; Abdo Sayegh Rodriguez; 2 cr.  
47412 001 LAB, 8:25- 9:55 MWF, Barbara Barker Ctr Dance 200, In Person Term Based; Penelope Freeh; 2 cr.

#### 3220 Jazz Technique 6

(Student Option; Prereq: 3210, dept consent, audition)  
47511 001 LAB, 12:20-13:50 TTh, Barbara Barker Ctr Dance 200, In Person Term Based; Linda Lee; 1 cr.

#### 3302 Tap Technique 4

(Student Option; Prereq: 3301 or instr consent)  
47281 001 LAB, 18:30-19:45 TTh, , In Person Term Based; Ellen Keane; 1 cr.

#### 3312 Contemporary Indian Dance 2

(Student Option No Audit; Prereq: 3311 or instr consent)  
56323 001 LAB, 14:05-15:35 W, Barbara Barker Ctr Dance 200, In Person Term Based; Chitra Vairavan; 1 cr.

#### 3402W Dance History 2

(Student Option; Prereq: 3401WWI)  
48623 001 LEC, 10:10-11:40 TTh, Barbara Barker Ctr Dance 301, In Person Term Based; Maija Brown; 3 cr.

#### 3433 Articulate Body

(Student Option; Prereq: Dnce major, dept consent)  
48624 001 LEC, 10:10-11:40 MW, Barbara Barker Ctr Dance 300, In Person Term Based; Margaret Fargnoli; 3 cr.

#### 3434 Nutrition and Body Maintenance for Movement Artists

(Student Option No Audit; )  
56321 001 LEC, 12:20-13:50 W, Barbara Barker Ctr Dance 301, In Person Term Based; Sandra Swami; 2 cr.

#### 3487W Dance and Citizenship: Land, Migration, and Diaspora

(Student Option; WI)  
60584 001 LEC, 8:15- 9:30 W, Barbara Barker Ctr Dance 301, In Person Term Based; Rachmi Diyah Larasati; 3 cr.

#### 3601 Dance Composition 1

(Student Option; Prereq: 1020, 1601, concurrent regis in a modern dance technique course, dept consent)  
50491 002 LAB, 10:10-11:40 M, Barbara Barker Ctr Dance 100, 10:10-11:40 F, Barbara Barker Ctr Dance 300, 10:10-11:40 W, Barbara Barker Ctr Dance 200, In Person Term Based; Angharad Davies; 3 cr.

50490 001 LAB, 10:10-11:40 W, Barbara Barker Ctr Dance 100, 10:10-11:40 MF, Barbara Barker Ctr Dance 200, In Person Term Based; Maggie Bergeron; 3 cr.

#### 3622 Dance Production II

(A-F or Audit; Prereq: 3621, dance major, dept consent)  
67693 001 LAB, 18:30-21:15 M, Barbara Barker Ctr Dance 301, 18:30-21:15 M, Barbara Barker Ctr Dance 100, In Person Term Based; Anthony Courtright; 2 cr.

#### 3700 Performance

(Student Option; Prereq: Concurrent enrollment in a technique course, audition, dept consent)  
47519 001 LAB, 15:45-18:15 MTWThF, Barbara Barker Ctr Dance 200, 15:45-18:15 MTWThF, Barbara Barker Ctr Dance 100, In Person Term Based; Toni Pierce; 1 cr.

#### 3901 Survival Strategies in Dance

(A-F or Audit; Prereq: Dance major, dept consent)  
67694 001 LEC, 8:25- 9:55 TTh, Barbara Barker Ctr Dance 301, In Person Term Based; Maggie Bergeron; 3 cr.

#### 4443 Theorizing Dancing Bodies

(Student Option; Prereq: 3402W or instr consent)  
67692 001 LEC, 12:20-13:50 TSa, Barbara Barker Ctr Dance 301, In Person Term Based; Ananya Chatterjea; 3 cr.

#### 4601 Dance Composition 3

(Student Option; Prereq: 3602, concurrent regis in a modern dance technique course, dept consent)  
54745 002 LAB, 12:20-13:50 M, Barbara Barker Ctr Dance 300, 12:20-13:50 F, Barbara Barker Ctr Dance 100, 12:20-13:50 W, Barbara Barker Ctr Dance 200, In Person Term Based; Carl Flink; 3 cr.  
54744 001 LAB, 12:20-13:50 F, Barbara Barker Ctr Dance 200, 12:20-13:50 MW, Barbara Barker Ctr Dance 100, In Person Term Based; Joan Smith; 3 cr.

#### 5020 Modern Dance Technique 8

(Student Option; Prereq: 5010, dept consent, audition)  
47515 001 LAB, 14:05-15:35 T, Barbara Barker Ctr Dance 100, 14:05-15:35 MThF, Barbara Barker Ctr Dance 200, In Person Term Based; Toni Pierce; 2 cr.

#### 5120 Ballet Technique 8

(Student Option; Prereq: 5110, dept consent, audition)  
67691 001 LAB, 8:25- 9:55 TTh, Barbara Barker Ctr Dance 200, In Person Term Based; 1 cr.

#### 5443 Theorizing Dancing Bodies

(Student Option; Prereq: instr consent)  
67696 001 LEC, 12:20-13:50 TTh, Barbara Barker Ctr Dance 301, In Person Term Based; Ananya Chatterjea; 3 cr.

#### 5500 Topics in Dance

(A-F or Audit; )  
60586 002 LAB, In Person Term Based; 1-3 cr.  
58416 001 LAB, 14:05-15:35 F, Barbara Barker Ctr Dance 100, 14:05-15:35 MTTh, Barbara Barker Ctr Dance 300, In Person Term Based; Scott Rink; 1-3 cr.

#### 5601 Dance Composition 5

(Student Option; Prereq: 4601, 4602, dept consent)  
52366 001 LAB, 10:10-11:40 M, , In Person Term Based; Joan Smith; 1 cr.

#### 5858 Teaching Dance

(Student Option; Prereq: 1020, dept consent, instr consent)  
60585 001 LAB, In Person Term Based; 4 cr.

#### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent. )  
49954 001 IND, In Person Term Based; Rachmi Diyah Larasati; 1-4 cr.

### Denmark's Intl Study Program (DIS)

#### 1001 Beginning Danish I

(A-F or Audit; )  
50820 500 LEC, Study Abroad; Katherine Moss; 3-5 cr.

#### 1002 Beginning Danish II

(A-F or Audit; )  
50821 500 LEC, Study Abroad; Katherine Moss; 3-5 cr.

#### 1003 Intermediate Danish I

(A-F or Audit; )  
50822 500 LEC, Study Abroad; Katherine Moss; 3-5 cr.

**1004 Intermediate Danish II**(A-F or Audit; )  
50823 500 LEC, Study Abroad; Katherine Moss; 3-5 cr.**3120 Interior Design Studio**(A-F or Audit; )  
50824 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3210 European Art of the 19th Century:  
From Classicism to Symbolism**(A-F or Audit; )  
50825 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3211 European Art of the 20th Century:  
From Expressionism to Postwar Art**(A-F or Audit; )  
50826 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3212 European Art: From Impressionism to  
Abstract Art**(A-F or Audit; )  
50827 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3213 History of European Film**(A-F or Audit; )  
50828 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3214 Contemporary European Film: the  
Individual and Society**(A-F or Audit; )  
50829 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3230 History of European Ballet**(A-F or Audit; )  
50830 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3320 Dickens and Andersen: Romanticism,  
Realism, and Modernism**(A-F or Audit; )  
50831 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3321 Hans Christian Andersen**(A-F or Audit; )  
50832 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3322 Masterpieces in Modern Scandinavian  
Literature**(A-F or Audit; )  
50833 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3331 Nationalism and Minorities in Europe**(A-F or Audit; )  
50834 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3332 Environmental Problems and Policy:  
a European Perspective**(A-F or Audit; )  
50835 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3333 European Conflict and Security  
Issues**(A-F or Audit; )  
50836 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3334 Russia under Putin**(A-F or Audit; )  
50837 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3341 The Jews in Europe from the Middle  
Ages to the Present**(A-F or Audit; )  
50838 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3342 The Impact of Epidemic Disease upon  
European History**(A-F or Audit; )  
50839 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3343 Environmental History of Europe**(A-F or Audit; )  
50840 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3344 20th Century European History**(A-F or Audit; )  
50841 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3421 Kierkegaard: Philosophy and the  
Meaning of Life**(A-F or Audit; )  
50842 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3422 Making of the Modern Self**(A-F or Audit; )  
50843 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3423 Biomedical Ethics**(A-F or Audit; )  
50844 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3431 Danish Politics and Society**(A-F or Audit; )  
50845 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3433 The European Union**(A-F or Audit; )  
50846 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3441 Brain Functioning and the Experience  
of Self**(A-F or Audit; )  
50847 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3442 Developmental Psychopathology**(A-F or Audit; )  
50848 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3451 Nordic Mythology**(A-F or Audit; )  
50849 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3511 Criminal Justice in Scandinavia**(A-F or Audit; )  
50850 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3620 Architecture Foundations Studio**(A-F or Audit; )  
51118 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3621 Architectural Design Studio**(A-F or Audit; )  
50851 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3622 Architectural Interior Design Studio**(A-F or Audit; )  
50852 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3623 20th Century Danish Architecture**(A-F or Audit; )  
50853 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3624 Contemporary European Architectural  
Theories**(A-F or Audit; )  
50854 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3625 Watercolor Painting**(A-F or Audit; )  
50855 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3626 Visual Journal**(A-F or Audit; )  
50856 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3627 Urban Design Journal**(A-F or Audit; )  
50857 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3628 Scandinavian Design and  
Architecture**(A-F or Audit; )  
50858 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3630 Furniture Design Studio and  
Workshop**(A-F or Audit; )  
50859 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3631 Furniture Design in Scandinavia**(A-F or Audit; )  
50860 500 LEC, Study Abroad; Katherine Moss; 3-6 cr.**3641 Digital Design in Scandinavia**(A-F or Audit; )  
50861 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3730 International Finance in a European  
Context**(A-F or Audit; )  
50862 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3740 European Business Environment: the  
EU**(A-F or Audit; )  
50863 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3742 Environmental Business Strategy**(A-F or Audit; )  
50864 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3760 Global Business Strategy: European  
Approaches**(A-F or Audit; )  
50865 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3761 Human Resource Management in  
Europe**(A-F or Audit; )  
50866 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3820 European Business Environment: the  
EU**(A-F or Audit; )  
51119 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3821 Marine Biological Research Project**(A-F or Audit; )  
50867 500 LEC, Study Abroad; Katherine Moss; 6 cr.**3822 Ecology and Human Impact in the  
North and Baltic Seas**(A-F or Audit; )  
50868 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3823 Biology of Marine Mammals**(A-F or Audit; )  
50869 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3824 Ecotoxicology: Principles and  
Practice**(A-F or Audit; )  
50870 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3825 Intensive Ecotoxicology Laboratory:  
Introduction to International Tests and  
Assays**(A-F or Audit; )  
50871 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3826 Biophysical Basis of Ecophysiology**(A-F or Audit; )  
50872 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3827 Element and Energy Cycling in  
Ecosystems**(A-F or Audit; )  
50873 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3828 Intensive Field Course: Carbon  
Cycling in Danish Forest and Fjord  
Ecosystems**(A-F or Audit; )  
50874 500 LEC, Study Abroad; Katherine Moss; 3 cr.**3830 Marine Biology of European Coastal  
Waters**(A-F or Audit; )  
50875 500 LEC, Study Abroad; Katherine Moss; 3 cr.**Dental Hygiene (DH)****2212 Communication for Oral Health  
Providers**(A-F only; Prereq: DH student)  
52729 002 LAB, In Person Term Based; 2 cr.  
48161 001 LEC, In Person Term Based; Meets With: 001 DT  
5331; Lisa Ahmann; 2 cr.**2215 Oral Histology and Embryology**(A-F or Audit; Prereq: DH student)  
54458 001 LEC, 11:15-12:05 TThF, , In Person Term  
Based; Meets With: 001 DDS 6251001 DT 5250; Rajaram  
Gopalakrishnan; 2 cr.



**2221 Periodontology**

(A-F only; Prereq: DH student)

48144 001 LEC, 10:00-11:40 T, , In Person Term Based; Joy Osborn; 2 cr.  
52700 002 LAB, 14:45-17:15 Th, , In Person Term Based; Joy Osborn; 2 cr.

**2222 Dental Hygiene Care Process Clinical Application II**

(A-F or Audit; Prereq: DH student)

48162 001 LEC, 13:00-13:50 T, Moos Health Sci Tower 8-348, In Person Term Based; Jill Stoltenberg; 3 cr.  
48163 002 FWK, 13:15-16:15 MW, , 9:15-12:15 MW, , In Person Term Based; Jill Stoltenberg; 3 cr.

**2231 Cariology and Applied Nutrition in Dental Hygiene Care**

(A-F or Audit; Prereq: DH student)

54457 001 LEC, 9:00-12:00 Th, , In Person Term Based; Meets With: 001 DT 5332; Judy Danielson; 3 cr.

**3126 Oral and Maxillofacial Radiology Clinic I**

(A-F or Audit; Prereq: DH student)

59572 001 FWK, In Person Term Based; Joyce Wallace; 0 cr.

**3151 Oral and Maxillofacial Radiology**

(A-F or Audit; Prereq: DH student)

55673 001 LEC, 14:30-15:30 T, , 15:30-16:20 T, , 14:45-15:45 F, , In Person Term Based; Meets With: 001 DT 5230001 DDS 6233; Mansur Ahmad; 2 cr.

**3191 Independent Study**

(Student Option; Prereq: DH student)

50116 001 IND, In Person Term Based; Christine Blue; 0 cr.

**3227 Oral and Maxillofacial Radiology Clinic II**

(A-F or Audit; Prereq: DH student)

48167 001 FWK, In Person Term Based; Christine Blue; 0 cr.

**4125W Dental Hygiene Care Process: Clinical Application V**

(A-F only; Prereq: DH student DSJ,WI)

54329 001 LEC, 8:00- 8:50 T, Moos Health Sci Tower 8-348, In Person Term Based; Lisa Ahmann; 6 cr.  
54352 002 FWK, 13:15-16:15 MTWTh, , 9:15-12:15 TW, , In Person Term Based; Lisa Ahmann; 6 cr.

**4128 Oral and Maxillofacial Radiology Clinic III**

(A-F or Audit; Prereq: DH student)

55822 001 FWK, In Person Term Based; Christine Blue; 0 cr.

**4130 Management and Supervision of a Dental Practice**

(A-F only; Prereq: Current Dental Hygiene Program student)

54459 001 LEC, 7:45- 9:30 M, , In Person Term Based; Meets With: 001 DDS 6336001 DT 5335; Gina Dugan; 2 cr.

**4135W Research Methods in Dental Hygiene**

(A-F only; Prereq: DHWI)

54468 001 LEC, 10:00-11:45 W, , 9:45-10:35 M, , In Person Term Based; Meets With: 001 DT 5338W; Joy Osborn; 3 cr.

**4136 Periodontology III Lecture**

(A-F or Audit; Prereq: DH student)

54469 001 LEC, 7:45- 8:30 WF, , In Person Term Based; Meets With: 001 DDS 6113; Bryan Michalowicz; 1 cr.

**4139 Dental Public Health and Academic Service Learning II**

(A-F only; Prereq: DH student)

54456 001 LEC, 10:45-12:45 M, , In Person Term Based; Meets With: 001 DT 5337; Priscilla Flynn; 2 cr.

**4191 Independent Study**

(Student Option; Prereq: DH student)

50117 001 IND, In Person Term Based; Christine Blue; 0-6 cr.

**4211 Principles of Restorative Techniques II**

(S-N only; )

53302 001 LEC, In Person Term Based; Susan Dittmar; 3 cr.

**4226 Dental Hygiene Care Process Clinical Application VI**

(A-F only; Prereq: DH student)

48165 002 FWK, In Person Term Based; 6 cr.  
48164 001 LEC, 8:00- 8:50 T, , In Person Term Based; Christine Blue; 6 cr.

**5403 The Discipline of Dental Hygiene**

(A-F only; Prereq: Dental hygiene grad student)

55741 001 LEC, In Person Term Based; Christine Blue; 2 cr.

**5409 Dental Hygiene Clinic Administration**

(A-F only; Prereq: Dental hygiene grad student)

55032 001 LEC, 18:00-20:00 M, , In Person Term Based; Lisa Ahmann; 2 cr.

**5413 Dental Hygiene Supervised Clinic Student Teaching**

(A-F only; )

55033 001 FWK, 18:00-21:00 W, , In Person Term Based; Jill Stoltenberg; 4 cr.

**5415 Dental Hygiene Supervised Didactic Course Student Teaching**

(A-F only; Prereq: Dental hygiene grad student)

55179 001 IND, In Person Term Based; Kathleen Newell; 2 cr.

**Dental Therapy (DT)****5130 Preclinical Pediatric Dentistry**

(A-F only; Prereq-DT grad program.)

57455 001 LEC, 8:00- 8:50 TW, , In Person Term Based; Meets With: 001 DDS 6131; Jasmine Yesil; 2 cr.

**5162 Principles of Exodontia and Minor Oral Surgery**

(A-F only; )

61056 001 LEC, 8:30-10:25 T, , 8:30-10:30 Th, , 13:00-15:00 WM, , In Person Term Based; Leon Assael; 1 cr.

**5212 Local Anesthesia and Pain Management**

(A-F or Audit; Prereq-DT grad program.)

55833 001 LEC, 8:00- 8:50 Th, , In Person Term Based; Deepak Kademani; 2 cr.

**5230 Oral and Maxillofacial Radiology**

(A-F only; Prereq-DT grad program.)

55668 001 LEC, 14:30-15:30 T, , 15:30-16:20 T, , 14:45-15:45 F, , In Person Term Based; Meets With: 001 DDS 6233001 DH 3151; Mansur Ahmad; 2 cr.

**5250 Oral Histology and Embryology**

(A-F only; Prereq-Enrolled in master's dental therapy program.)

59549 001 LEC, 11:15-12:05 TThF, , In Person Term Based; Meets With: 001 DH 2215001 DDS 6251; Rajaram Gopalakrishnan; 2 cr.

**5331 Provider Patient Relationships**

(A-F only; )

59550 001 LEC, In Person Term Based; Meets With: 001 DH 2212; Lisa Ahmann; 2 cr.

**5332 Cariology and Applied Nutrition in Dental Therapy Care**

(A-F only; )

59551 001 LEC, 9:00-12:00 Th, , In Person Term Based; Meets With: 001 DH 2231; Judy Danielson; 3 cr.

**5335 Dental Practice Management**

(A-F only; Prereq: 2nd yr dental therapy student)

59599 001 LEC, 7:45- 9:30 M, , In Person Term Based; Meets With: 001 DDS 6336001 DH 4130; Gina Dugan; 2 cr.

**5337 Dental Public Health and Service Learning II**

(A-F only; )

59608 001 LEC, 10:45-12:45 M, , In Person Term Based; Meets With: 001 DH 4139; Priscilla Flynn; 2 cr.

**5338W Research Methods in Dental Therapy**

(A-F only; Prereq-Dental therapy student.WI)

59614 001 LEC, 10:00-11:45 W, , 9:45-10:35 M, , In Person Term Based; Meets With: 001 DH 4135W; Joy Osborn; 3 cr.

**5359 Introduction to Outreach Experiences**

(S-N only; )

59617 001 IND, In Person Term Based; Paxia Her; 0 cr.

**5460 Essentials of Clinical Care I For the Dental Therapist**

(S-N only; )

59616 001 FWK, In Person Term Based; Karl Self; 1-12 cr.

**5471 Prosthodontic Topics for Dental Therapy**

(S-N only; )

59552 001 LEC, 8:00-11:00 T, Moos Health Sci T Workstations, In Person Term Based; Karl Self; 2 cr.

**Dentistry (DENT)****6470 Health Ecology Elective**

(Student Option; )

49061 001 IND, In Person Term Based; Carol Koskela; 1-10 cr.

**6480 Advanced General Dentistry Elective**

(Student Option; )

49062 001 IND, In Person Term Based; Carol Koskela; 1-10 cr.

**6490 Health Ecology: Independent Study**

(Student Option; )

49063 001 IND, In Person Term Based; Carol Koskela; 1-10 cr.

**7000 Dental Clinic**

(Student Option; )

51685 001 LEC, In Person Term Based; 1-6 cr.

**7021 Contemporary Diagnosis and Management of Orofacial Pain**

(A-F only; )

49015 001 LEC, In Person Term Based; Walter Bowles; 1 cr.

**7032 Field Experience: Administration in a Multidisciplinary Health Center**

(Student Option; )

48835 001 FWK, In Person Term Based; Stephen Shuman; 1-3 cr.

**7033 Teaching and Evaluation in Dentistry**

(A-F or Audit; Prereq: Dent or OBio grad student or instr consent)

48931 001 LEC, 16:35-18:30 T, , In Person Term Based; David Born; 3 cr.

**7051 Advanced Study in the Theory and Principles of Oral Medicine**

(A-F only; )

53941 001 LEC, In Person Term Based; Joyce Wallace; 2 cr.

**7062 Special Oral Pathology II**

(S-N only; Prereq-7061, resident [or grad student] in discipline other than oral pathology.)

50173 001 LEC, 15:30-16:30 Th, , In Person Term Based; Ioannis Koutlas; 1 cr.

**7071 General Practice Residency Dental Clinic**

(S-N only; Prereq: Must be in the General Residency Program in Dentistry)

57386 001 FWK, In Person Term Based; Brian Singletary; 13 cr.

**7101 Management Philosophy for Dental Practices**

(S-N or Audit; Prereq: Dentistry grad student)

48350 001 LEC, In Person Term Based; James Hinrichs; 1 cr.

**7111 Current Literature Review in Dentistry**

(A-F only; Prereq: Grad student in [dentistry or oral biology] or instr consent)

51627 001 LEC, In Person Term Based; 2 cr.

**7112 Treatment Planning Seminar**

(A-F or Audit; )

50330 001 LEC, In Person Term Based; 2 cr.

**7121 Psychological Issues in Medical and Dental Patient Management**

(Student Option; )

53363 001 LEC, 12:00-13:00 W, Moos Health Sci Tower  
15-254, In Person Term Based; Kate Hathaway; 1 cr.

### 8031 Topics and Problems in Dental Education

(Student Option; )  
50325 001 LEC, In Person Term Based; David Born; 1-3 cr.

### 8090 Evidence-based Clinical Pediatric Dentistry

(A-F or Audit; )  
50317 001 LEC, In Person Term Based; 2 cr.

### 8100 Topics in Advanced Periodontology: Literature Review

(Student Option; )  
50328 001 LEC, 12:00-13:00 T, , In Person Term Based; 2 cr.

### 8120 Advanced Principles and Techniques of Orofacial Pain Disorders

(A-F or Audit; Prereq: Participation in TMJ, orofacial pain advanced education program)  
50143 001 LEC, 7:30- 8:30 MWF, Moos Health Sci Tower  
6-374, In Person Term Based; Eric Schiffman; 3 cr.

### 8123 Advanced Topics in Orofacial Pain

(A-F or Audit; Prereq: Grad student in dentistry or other health sciences grad student or instr consent)  
50019 001 LEC, 7:30- 8:30 MWF, Moos Health Sci Tower  
6-370, In Person Term Based; Kate Hathaway; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49108 001 IND, In Person Term Based; 1 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49395 001 IND, In Person Term Based; 1-18 cr.

## Dermatology (DERM)

### 7182 Hospital Preceptorship in Dermatology

(H-N or Audit; )  
47989 001 FWK, In Person Term Based; Gina Stauss; 2-3 cr.

### 7183 Advanced Course in Dermatology

(H-N or Audit; Prereq: 7182)  
47990 001 FWK, In Person Term Based; Gina Stauss; 3-6 cr.

### 7185 Research in Dermatology

(H-N or Audit; )  
47991 001 IND, In Person Term Based; Gina Stauss; 1-15 cr.

### 7910 Dermatology Medical Residency

(No Grade Associated; )  
56672 001 FWK, In Person Term Based; 6 cr.

### 7930 Dermatology Medical Fellowship

(No Grade Associated; )  
56673 001 FWK, In Person Term Based; 6 cr.

## Design (DES)

### 1000 D@MN: Design@Minnesota

(A-F only; AH)  
57994 001 LEC, 15:35-16:50 MW, Rapson Hall 100, In  
Person Term Based; Thomas Fisher; 3 cr.

### 1101W Introduction to Design Thinking

(A-F only; AH,WI)  
57639 007 DIS, 16:05-16:55 W, McNeal Hall 146, In Person  
Term Based; ; 4 cr.  
56105 003 DIS, 9:35-10:25 W, Ruttan Hall B30, In Person  
Term Based; ; 4 cr.  
56108 006 DIS, 10:40-11:30 Th, McNeal Hall 146, In Person  
Term Based; ; 4 cr.  
56107 005 DIS, 10:40-11:30 T, McNeal Hall 146, In Person  
Term Based; ; 4 cr.  
56106 004 DIS, 11:45-12:35 W, McNeal Hall 146, In Person  
Term Based; ; 4 cr.  
56104 002 DIS, 8:30- 9:20 W, McNeal Hall 395, In Person  
Term Based; ; 4 cr.  
56103 001 LEC, 8:45-10:00 TTh, McNeal Hall 33, In Person  
Term Based; Patricia Hemmis; 4 cr.

### 1111 Creative Problem Solving

(A-F only; )  
56113 002 DIS, 15:00-16:15 T, McNeal Hall 144, In Person  
Term Based; 3 cr.  
56112 001 LEC, 15:00-16:55 Th, McNeal Hall 144, In Person  
Term Based; 3 cr.  
56114 003 DIS, 16:30-17:45 T, McNeal Hall 144, In Person  
Term Based; ; 3 cr.

### 1202 Discovering Majors and Careers

(A-F only; )  
61044 001 LEC, In Person Term Based; 1 cr.

### 1902 Freshman Seminar

(A-F only; DSJ)  
59770 001 DIS, 14:30-17:15 W, Rapson Hall 43, In Person  
Term Based; ; 2-3 cr.

### 1904 Freshman Seminar

(A-F only; Prereq: FrGP)  
57904 001 LEC, 9:35-12:30 F, McNeal Hall 262, In Person  
Term Based; Monica Fogg; 2-3 cr.

### 1909W Freshman Seminar

(A-F only; Prereq: FrGP,WI)  
57913 001 LEC, 9:35-11:30 W, McNeal Hall B9, In Person  
Term Based; James Boyd Brent; 2-3 cr.

### 2101 Design and Visual Presentation

(A-F only; )  
56116 001 LEC, Primarily Online; ; 2 cr.  
68561 002 LEC, Primarily Online; Julie Hillman; 2 cr.

### 3131 User Experience in Design

(A-F only; )  
58801 001 LEC, 17:10-18:00 W, McNeal Hall 144,  
15:00-17:45 M, McNeal Hall 144, In Person Term Based;  
Paul Derby; 4 cr.

### 3141 Technology, Design, and Society

(A-F only; TS)  
58554 001 LEC, 17:45-19:00 MW, Bruininks Hall 530A, In  
Person Term Based; 3 cr.

### 3160 Topics in Design

(A-F only; )  
59771 001 LEC, 8:30-10:00 TTh, Rapson Hall 35, In Person  
Term Based; Thomas Oliphant; 1-4 cr.

### 3201 Career and Internship Preparation for Design

(A-F only; Prereq: Pre-graphic design or graphic  
design or pre-interior design or interior design or pre-  
apparel design or apparel design or environmental  
design or architecture)  
57520 003 LEC, 15:00-16:55 W, Ruttan Hall B36, In Person  
Term Based; ; 1 cr.

55524 002 LEC, 18:20-20:15 W, Mechanical Engineering  
102, In Person Term Based; Christine Bartley; 1 cr.  
55523 001 LEC, 9:35-11:30 F, McNeal Hall 146, In Person  
Term Based; Dana Rechtzigel; 1 cr.  
59404 004 LEC, 9:35-10:25 M, Ruttan Hall B30, In Person  
Term Based; Heather Nagel; 1 cr.

### 3309 Storytelling and Design

(A-F only; )  
58206 001 LEC, 18:20-20:50 Th, Rapson Hall 35, In Person  
Term Based; Stephen Peters; 3 cr.

### 3311 Travels in Typography

(A-F only; )  
55814 001 LAB, 18:20-20:50 M, Rapson Hall 13, In Person  
Term Based; Bill Moran; 3 cr.

### 3331 Street Life Urban Design Seminar

(A-F only; )  
55392 001 LEC, 13:25-15:55 M, Rapson Hall 35, In Person  
Term Based; Carrie Christensen; 3 cr.

### 3341 (un)Wrapping It Up: New Materials for Design, Design for New Materials

(A-F only; )  
55393 001 LEC, 18:20-20:50 T, Rapson Hall 35, In Person  
Term Based; Bruce N Wright; 3 cr.

### 3351 Phenomenon of Everyday Design

(A-F or Audit; )  
60661 001 LEC, 18:20-20:50 W, Rapson Hall 15, In Person  
Term Based; Patricia Hemmis; 3 cr.

### 5160 Topics in Design

(A-F only; )  
57942 001 LEC, In Person Term Based; 1-4 cr.

### 5170 Topics in Design

(A-F or Audit; )  
57943 001 LAB, In Person Term Based; 1-4 cr.

### 5185 Human Factors in Design

(A-F or Audit; Prereq: Grad student or sr or instr  
consent)  
57640 001 LEC, 18:15-21:00 T, McNeal Hall 10, In Person  
Term Based; Lucy Dunne; 3 cr.

### 5201 Career and Job Search Preparation for Graduate Students

(S-N only; Prereq: Grad student)  
60406 001 LEC, 17:15-18:30 T, Ruttan Hall 143, In Person  
Term Based; Meets With: 001 CFAN 5201001 APS 5201; 1  
cr.

### 8103 Qualitative and Mixed Methods Research

(A-F or Audit; )  
56117 001 LEC, 15:00-17:45 T, McNeal Hall 250, In Person  
Term Based; Marilyn Bruin; 3 cr.

### 8151 Product Development

(A-F only; )  
69033 001 LAB, 15:00-17:45 W, McNeal Hall 250, In Person  
Term Based; 3 cr.

### 8167 Aesthetics of Design

(A-F or Audit; )  
67297 001 LEC, 16:30-19:15 M, McNeal Hall 395, In Person  
Term Based; Marilyn DeLong; 3 cr.

### 8181 Research Ethics

(S-N or Audit; Prereq: Grad student)  
56874 001 LEC, Primarily Online; Marilyn Bruin; 1 cr.

## Developmt Std and Soc Change (DSSC)

### 8112 Scholarship and Public Responsibility

(S-N only; Prereq: Grad DSSC minor or instr consent)  
54411 001 LEC, In Person Term Based; Karen Brown; 1 cr.

### 8310 Topics in Development Studies and Social Change

(S-N only; Prereq: Grad DSSC minor or instr consent)  
59556 002 LEC, 9:30-11:30 Th, Carlson School of Mgmt  
2-219, In Person Term Based; Frances Vavrus; 1 cr.

## Doctor of Dental Surgery (DDS)

### 6113 Periodontology III Lecture

(A-F only; )  
59411 001 LEC, 7:45- 8:30 WF, , In Person Term Based;  
Meets With: 001 DH 4136; Bryan Michalowicz; 1.5 cr.

### 6122 Periodontology Clinic

(A-F only; )  
47917 001 FWK, In Person Term Based; Bryan Michalowicz;  
4 cr.

### 6130 Introduction to Clinical Dentistry

(S-N only; Prereq: Enrolled in PASS)  
59518 001 LEC, In Person Term Based; Bashar Bakdash; 2.2  
cr.

### 6131 Pediatric Dentistry Pre-Clinic

(A-F or Audit; )  
57454 001 LEC, 8:00- 8:50 TW, , In Person Term Based;  
Meets With: 001 DT 5130; Jasmine Yesil; 1.7 cr.

### 6141 Pediatric Dentistry Clinic

(A-F only; Prereq: 3rd yr DDS student.)  
55665 001 FWK, In Person Term Based; Jasmine Yesil; 3.6  
cr.

### 6151 Pain and Anxiety Control

(A-F or Audit; )  
53873 001 LEC, 8:00- 8:50 ThF, , In Person Term Based;  
Harold Tu; 1.2 cr.

### 6153 Oral and Maxillofacial Surgery II

(A-F only; Prereq-Oral Surgery I.)

47545 001 LEC, 7:45- 8:35 T, , In Person Term Based; Katie Olsen; 1.2 cr.

### 6161 Oral & Maxillofacial Surgery Clinic

#### Rotation

(S-N or Audit; )

55154 001 FWK, In Person Term Based; James Swift; 2.5 cr.

### 6172 Orthodontics II

(A-F only; )

48099 001 LEC, 8:40- 9:30 WT, , In Person Term Based; John Beyer; 1.5 cr.

### 6181 Orthodontic Clinic Rotation

(S-N or Audit; )

48101 001 FWK, In Person Term Based; John Beyer; 1 cr.

### 6211 Introduction to Oral Biology

(S-N only; Prereq-1st yr [DDS or DT student].)

55618 001 LEC, 13:25-14:15 T, , In Person Term Based; Joel Rudney; 0.6 cr.

### 6215 Dental Pharmacology

(A-F only; Prereq: Must be in DDS program)

59374 001 LEC, 10:10-11:00 TWTh, , In Person Term Based; Leonard Lichtblau; 3 cr.

### 6232 Physical Evaluation II

(A-F or Audit; )

55649 001 LEC, 8:00- 9:55 W, , 9:05- 9:55 WTh, , In Person Term Based; Nelson Rhodus; 2.2 cr.

### 6233 Oral and Maxillofacial Radiology

(A-F only; )

55672 001 LEC, 14:30-15:30 T, , 15:30-16:20 T, , 14:45-15:45 F, , In Person Term Based; Meets With: 001 DT 5230001 DH 3151; Mansur Ahmad; 2 cr.

### 6235 Oral Radiology Preclinical Lab I

(S-N only; Prereq-In DDS program.)

57404 001 LEC, In Person Term Based; Mansur Ahmad; 0.9 cr.

### 6241 Oral Medicine/Diagnosis Clinic I

(S-N only; Prereq-3rd yr DDS student.)

57415 001 FWK, In Person Term Based; Nelson Rhodus; 0.7 cr.

### 6243 Oral Radiology Clinic

(S-N only; Prereq-3rd yr DDS student.)

59412 001 FWK, In Person Term Based; Mansur Ahmad; 0.5 cr.

### 6251 Oral Histology and Embryology and Medical Genetics

(A-F only; )

55617 001 LEC, 11:15-12:05 TThF, , In Person Term Based; Meets With: 001 DH 2215001 DT 5250; Rajaram Gopalakrishnan; 2.6 cr.

### 6252 Oral and Maxillofacial Pathology

(A-F or Audit; )

51188 001 LEC, 8:00- 8:50 F, , 11:15-12:05 TWTh, , In Person Term Based; Ioannis Koutlas; 3.1 cr.

### 6312 Comprehensive Care Clinic I

(S-N only; )

59413 001 FWK, In Person Term Based; Eric Mills; 4 cr.

### 6313 Comprehensive Care Clinic II

(S-N only; Prereq-6050.)

53898 001 FWK, In Person Term Based; Charles Watkin; 4 cr.

### 6314 Treatment Planning and Introduction to Patient Care

(S-N or Audit; )

51187 001 LEC, 9:05- 9:55 T, , 10:10-11:00 W, , In Person Term Based; Richard Nadeau; 4.1 cr.

### 6325 Dental Professional Development I

(S-N only; )

61000 001 DIS, 13:10-15:10 M, , 13:25-14:15 M, , 14:30-15:20 M, , In Person Term Based; Michael Murphy; 1 cr.

### 6332 Dental Public Health II

(S-N only; )

55669 001 LEC, 10:10-11:00 TTh, , In Person Term Based; Karl Self; 2.3 cr.

### 6334 Professional Problem Solving

(S-N only; Prereq-DDS 3rd yr.)

55664 001 DIS, 7:45- 8:35 F, , 7:45- 9:30 Th, , In Person Term Based; Karin Quick; 0.8 cr.

### 6335 Professional Problem Solving

(S-N only; )

55178 001 LEC, In Person Term Based; Karin Quick; 0.3 cr.

### 6336 Dental Practice Management

(S-N only; )

48137 001 LEC, 7:45- 9:30 M, , In Person Term Based; Meets With: 001 DH 4130001 DT 5335; Gina Dugan; 2 cr.

### 6339 Emergency Preparedness

(S-N only; Prereq-Must be enrolled in a School of Dentistry program.)

57410 001 LEC, 8:45- 9:35 T, , In Person Term Based; Carol Meyer; 0.8 cr.

### 6360 Introduction to Outreach Experiences

(S-N only; )

59414 001 IND, In Person Term Based; Paul Schulz; 0 cr.

### 6363 Outreach Experiences III

(S-N only; )

60947 001 FWK, In Person Term Based; Paul Schulz; 2 cr.

### 6411 Applied Dental Biomaterials

(A-F only; Prereq-In DDS program.)

55874 001 LEC, 9:05-11:00 F, , 9:05- 9:55 F, , 10:10-12:00 F, , In Person Term Based; Edward Combe; 2 cr.

### 6438 Operative Dentistry III

(A-F only; Prereq-Operative Dentistry [I, II], Operative Dentistry [I, II] Lab.)

59410 001 LEC, 13:00-13:50 TTh, , In Person Term Based; Ignatius Lee; 3.8 cr.

### 6441 Operative Dentistry Clinic II

(A-F only; Prereq: Operative Dentistry [I, II, III], Operative Dentistry [I, II] lab)

48102 001 FWK, In Person Term Based; Gary Hildenbrand; 4 cr.

### 6442 Operative Dentistry Clinic V

(A-F only; Prereq-Operative Dentistry I, II, III, Operative Dentistry I and II Lab.)

48103 001 FWK, In Person Term Based; Gary Hildebrandt; 7.5 cr.

### 6461 Endodontic Clinic D3

(S-N only; )

48132 001 FWK, In Person Term Based; Samantha Roach; 2 cr.

### 6462 Endodontic Clinic

(A-F or Audit; )

55926 001 FWK, In Person Term Based; Jane Schwensohn; 2 cr.

### 6471 Preclinical Prosthodontics Lecture II

(A-F only; )

48109 001 LEC, 8:00- 8:50 MWF, , In Person Term Based; Ranier Adarve; 1.5 cr.

### 6472 Preclinical Prosthodontic Technique Laboratory II

(A-F or Audit; )

51431 001 LAB, 9:05-12:05 MW, Moos Health Sci T Workstations, In Person Term Based; Ranier Adarve; 3.3 cr.

### 6477 Preclinical Prosthodontics Technique Lecture V, Removable Partial Dentures

(A-F only; )

51432 001 LEC, 13:00-14:15 MW, , In Person Term Based; Meets With: 001 DDS 6485; Robert Grady; 2.5 cr.

### 6478 Preclinical Prosthodontics Technique Laboratory V, Partial Dentures

(A-F only; )

51433 001 LAB, 14:00-16:30 MW, , In Person Term Based; Meets With: 001 DDS 6486; Robert Grady; 2.2 cr.

### 6479 Clinical Occlusion

(A-F or Audit; Prereq: Enrolled in dentistry program)

54992 001 LEC, 13:00-13:50 MWF, , In Person Term Based; Luis Delima; 1.3 cr.

### 6481 Fixed Prosthodontics Clinic II

(A-F or Audit; )

48104 001 FWK, In Person Term Based; Wook-Jin Seong; 5 cr.

### 6482 Removable Prosthodontics Clinic II

(A-F only; )

48107 001 FWK, In Person Term Based; Wook-Jin Seong; 5 cr.

### 6483 Fixed Prosthodontics Clinic IV

(A-F only; )

59429 001 FWK, In Person Term Based; Wook-Jin Seong; 7.5 cr.

### 6484 Removable Prosthodontics Clinic IV

(A-F only; )

48108 001 FWK, In Person Term Based; Wook-Jin Seong; 4 cr.

### 6485 Preclinical Removable Prosthodontics Lectures for PASS

(A-F only; )

59309 001 LEC, 13:00-14:15 MW, , In Person Term Based; Meets With: 001 DDS 6477; Robert Grady; 2.5 cr.

### 6486 Removable Prosthodontics Laboratory for PASS

(A-F only; )

59369 001 LAB, 14:00-16:30 MW, , In Person Term Based; Meets With: 001 DDS 6478; Robert Grady; 2.2 cr.

### 6493 Prosthodontics I

(A-F only; Prereq-Fundamentals of prosthodontics shape/color, aesthetics of anterior prosthodontics.)

48536 001 LEC, 8:40- 9:30 F, , In Person Term Based; William Larson; 1.1 cr.

### 6601 Phillips Neighborhood Elective Volunteer Experience

(No Grade Associated; )

59436 001 FWK, In Person Term Based; Karin Quick; 0 cr.

### 6602 Harbor Lights Elective Volunteer Experience

(No Grade Associated; Prereq: Must be in DDS program)

59444 001 FWK, In Person Term Based; Karin Quick; 0 cr.

### 6603 Elective Regional Volunteer Experience

(S-N only; )

59445 001 FWK, In Person Term Based; Karin Quick; 0 cr.

### 6604 Elective Regional Volunteer Experience

(S-N only; )

59446 001 FWK, In Person Term Based; Karin Quick; 0 cr.

### 6608 Elective Externship I

(S-N only; )

57474 001 FWK, In Person Term Based; Karin Quick; 1-5 cr.

### 6609 Elective Externship II

(S-N only; )

57475 001 FWK, In Person Term Based; Karin Quick; 1-5 cr.

### 6610 Elective Externship III

(S-N only; )

57476 001 FWK, In Person Term Based; Karin Quick; 1-5 cr.

### 6611 Study Abroad Externship

(S-N only; )

56010 001 FWK, In Person Term Based; Karin Quick; 1-5 cr.

### 6621 Introduction to CAD/CAM Restorations

(S-N only; )

56020 001 LEC, In Person Term Based; Omar Zidan; 2 cr.

### 6900 Dental Clinic

(S-N or Audit; )

55797 001 FWK, In Person Term Based; 1-25 cr.

55798 002 FWK, In Person Term Based; 1-25 cr.

55799 003 FWK, In Person Term Based; 1-25 cr.

### 6901 Essentials of Clinical Care DDS2

(S-N only; Prereq: Must be enrolled in the Doctor of Dental Surgery Program.)

61002 001 FWK, In Person Term Based; Todd Thierer; 0 cr.

**6911 Essentials of Clinical Care: D3**

(S-N only; Prereq-DDS 3rd yr.)  
61003 001 FWK, In Person Term Based; Deborah Chapman; 0-18 cr.

**6921 Essentials of Clinical Care: D4**

(S-N only; Prereq-DDS 4th yr.)  
61004 001 FWK, In Person Term Based; Todd Thierer; 0-18 cr.

**Dutch (DTCH)****1002 Beginning Dutch**

(Student Option; Prereq: 1001)  
51134 001 DIS, 16:40-18:50 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 DTCH 4002; Jenneke Oosterhoff; 5 cr.

**1004 Intermediate Dutch**

(Student Option; Prereq: 1003)  
47469 001 DIS, 16:40-18:50 TTh, Folwell Hall 12, In Person Term Based; Meets With: 001 DTCH 4004; Jenneke Oosterhoff; 5 cr.

**3012 Conversation and Composition**

(Student Option; Prereq: 3011 or 4011)  
69051 001 DIS, 16:40-19:10 Th, Folwell Hall 6, In Person Term Based; Jenneke Oosterhoff; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
47790 001 IND, In Person Term Based; 1-5 cr.

**4002 Beginning Dutch**

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
51135 001 DIS, 16:40-18:50 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 DTCH 1002; Jenneke Oosterhoff; 2 cr.

**4004 Intermediate Dutch**

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
48446 001 DIS, 16:40-18:50 TTh, Folwell Hall 12, In Person Term Based; Meets With: 001 DTCH 1004; Jenneke Oosterhoff; 2 cr.

**5993 Directed Studies**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
47791 001 IND, In Person Term Based; 1-4 cr.

**Early Modern Studies (EMS)****5500 Topics in Early Modern Studies**

(Student Option; Prereq: Grad student)  
68759 001 LEC, 14:30-17:20 T, Folwell Hall 4, In Person Term Based; Meets With: 002 ALL 5920001 HIST 5940; Ann Waltner; 3 cr.

**8100 Workshop in Early Modern Studies**

(S-N only; Prereq: instr consent)  
55781 001 LEC, Primarily Online; JB Shank; 1-3 cr.

**8500 Topics in Early Modern Studies**

(Student Option; Prereq: Grad student)  
69008 001 LEC, 9:30-12:00 F, Lind Hall 203, In Person Term Based; Meets With: 001 ENGL 8150; Katherine Scheil; 3 cr.

**Earth Sciences (ESCI)****1001 Earth and Its Environments**

(Student Option; ENV,PHYS)  
49673 003 LEC, 18:30-21:00 T, Nicholson Hall 275, In Person Term Based; Meets With: 103 ESCI 1101; Chris Paola; 4 cr.  
49672 002 LEC, 9:45-11:00 TTh, Nicholson Hall 275, In Person Term Based; Meets With: 102 ESCI 1101; Emi Ito; 4 cr.  
49671 001 LEC, 11:15-12:05 MWF, Nicholson Hall 155, In Person Term Based; Meets With: 101 ESCI 1101; Lawrence Edwards; 4 cr.  
49684 111 LAB, 18:00-20:00 W, Ford Hall 185, In Person Term Based; Chris Paola; 4 cr.  
49683 110 LAB, 14:30-16:25 W, Ford Hall 185, In Person Term Based; Chris Paola; 4 cr.

49682 109 LAB, 12:20-14:15 W, Ford Hall 185, In Person Term Based; Chris Paola; 4 cr.  
49675 102 LAB, 12:20-14:15 M, Ford Hall 185, In Person Term Based; Chris Paola; 4 cr.  
51745 112 LAB, 11:15-13:10 Th, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49685 113 LAB, 13:25-15:20 Th, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49677 104 LAB, 18:00-20:00 M, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49681 108 LAB, 9:05-11:00 W, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49679 106 LAB, 13:25-15:20 T, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49680 107 LAB, 15:35-17:30 T, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49678 105 LAB, 11:15-13:10 T, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49676 103 LAB, 14:30-16:35 M, Ford Hall 185, In Person Term Based; Emi Ito; 4 cr.  
49674 101 LAB, 9:05-11:00 M, Ford Hall 185, In Person Term Based; Lawrence Edwards; 4 cr.

**1003 Dinosaur Evolution, Ecology, and Extinction: Introduction to the Mesozoic World**

(Student Option; )  
54249 001 LEC, 14:30-15:45 TTh, Nicholson Hall 35, In Person Term Based; Kent Kirkby; 3 cr.

**1005 Geology and Cinema**

(Student Option; ENV,PHYS)  
67716 113 LAB, 12:20-14:15 Th, Pillsbury Hall 100, In Person Term Based; Jennifer Petrie; 4 cr.  
51315 001 LEC, 14:30-15:45 TTh, Willey Hall 175, In Person Term Based; Meets With: 001 ESCI 1105; Justin Revenaugh; 4 cr.  
51472 108 LAB, 9:05-11:00 W, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51465 101 LAB, 9:05-11:00 M, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
52330 112 LAB, 10:10-12:05 Th, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51469 105 LAB, 10:10-12:05 T, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51466 102 LAB, 11:15-13:10 M, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51470 106 LAB, 12:20-14:15 T, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
52328 110 LAB, 13:25-15:20 W, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51467 103 LAB, 13:25-15:20 M, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
52329 111 LAB, 15:35-17:30 W, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51468 104 LAB, 15:35-17:30 M, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
51471 107 LAB, 16:10-18:10 T, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.  
52327 109 LAB, 11:15-13:10 W, Pillsbury Hall 100, In Person Term Based; Justin Revenaugh; 4 cr.

**1012 Natural Hazards and Disasters**

(Student Option; TS)  
56545 001 LEC, 10:10-11:00 MWF, Nicholson Hall 155, In Person Term Based; Ikuko Wada; 3 cr.

**1101 Introduction to Geology**

(Student Option; ENV)  
53507 103 LEC, 18:30-21:00 T, Nicholson Hall 275, In Person Term Based; Meets With: 003 ESCI 1001; Chris Paola; 3 cr.  
53506 102 LEC, 9:45-11:00 TTh, Nicholson Hall 275, In Person Term Based; Meets With: 002 ESCI 1001; Emi Ito; 3 cr.  
50427 B05 LEC, Online & Distance Lrng (ODL); Kent Kirkby; 3 cr.  
50428 C05 LEC, Online & Distance Lrng (ODL); Kent Kirkby; 3 cr.  
48652 D05 LEC, Online & Distance Lrng (ODL); Kent Kirkby; 3 cr.  
48653 E05 LEC, Online & Distance Lrng (ODL); Kent Kirkby; 3 cr.  
48562 101 LEC, 11:15-12:05 MWF, Nicholson Hall 155, In Person Term Based; Meets With: 001 ESCI 1001; Lawrence Edwards; 3 cr.

**1105 Geology and Cinema**

(Student Option; ENV)  
53508 001 LEC, 14:30-15:45 TTh, Willey Hall 175, In Person Term Based; Meets With: 001 ESCI 1005; Justin Revenaugh; 3 cr.

**2202 Earth History**

(A-F only; Prereq: [2201, 2301] or instr consent)  
55700 001 LEC, 9:45-11:00 TTh, Pillsbury Hall 110, In Person Term Based; David Fox; 4 cr.  
56356 101 LAB, 9:05-11:00 M, Pillsbury Hall 105, In Person Term Based; David Fox; 4 cr.  
56357 102 LAB, 11:15-13:10 T, Pillsbury Hall 105, In Person Term Based; David Fox; 4 cr.  
59418 103 LAB, 13:25-15:20 T, Pillsbury Hall 105, In Person Term Based; Sharon Kressler; 4 cr.

**2203 Earth Surface Dynamics**

(A-F or Audit; )  
56381 001 LEC, 11:15-12:30 MW, Pillsbury Hall 110, In Person Term Based; Jake Bailey; 4 cr.  
56382 101 LAB, 9:05-11:00 F, Pillsbury Hall 105, In Person Term Based; Jake Bailey; 4 cr.  
56383 102 LAB, 12:20-14:15 F, Pillsbury Hall 105, In Person Term Based; Jake Bailey; 4 cr.  
59419 103 LAB, 14:30-16:25 F, Pillsbury Hall 105, In Person Term Based; Sharon Kressler; 4 cr.

**2302 Petrology**

(Student Option; Prereq: 2301 or instr consent)  
46673 001 LEC, 13:25-14:15 MW, Pillsbury Hall 110, In Person Term Based; Marc Hirschmann; 3 cr.  
46674 101 LAB, 9:05-11:00 F, Pillsbury Hall 125B, In Person Term Based; Marc Hirschmann; 3 cr.  
46675 102 LAB, 12:20-14:15 F, Pillsbury Hall 125B, In Person Term Based; Marc Hirschmann; 3 cr.  
59421 103 LAB, 14:30-16:25 F, Pillsbury Hall 125B, In Person Term Based; Sharon Kressler; 3 cr.

**3093 Problems in Earth Sciences: Junior**

(Student Option; Prereq: instr consent)  
47069 001 IND, In Person Term Based; Sharon Kressler; 1-4 cr.

**3402 Science and Politics of Global Warming**

(Student Option; ENV)  
57642 001 LEC, 14:30-15:45 MW, Pillsbury Hall 110, In Person Term Based; Meets With: 001 ESCI 5402; Katsumi Matsumoto; 3 cr.

**3890 Field Workshop**

(Student Option; Prereq: [Geo or ESCI or GeoEng] major or instr consent)  
56384 001 LEC, In Person Term Based; Sharon Kressler; 1 cr.

**3891 Field Methods**

(A-F only; )  
55220 001 LEC, 16:00-18:00 T, Pillsbury Hall 110, In Person Term Based; Annia Fayon; 2 cr.

**4010 Undergraduate Seminar: Current Topics in Earth Sciences**

(Student Option; Prereq: instr consent)  
49670 001 LEC, In Person Term Based; Sharon Kressler; 1-4 cr.

**4093 Problems in Earth Sciences: Senior**

(Student Option; Prereq: instr consent)  
47070 001 IND, In Person Term Based; Sharon Kressler; 1-4 cr.

**4094 Senior Thesis**

(Student Option; Prereq: Sr, Geo or ESCI major, instr consent)  
47071 001 IND, In Person Term Based; Sharon Kressler; 2 cr.

**4401 Aqueous Environmental Geochemistry**

(Student Option; Prereq: Chem 3501 or instr consent)  
59646 001 LEC, 11:15-12:30 TTh, Civil Engineering Bldg 214, In Person Term Based; William Seyfried; 3 cr.

**4502 Tectonic Styles**

(Student Option; Prereq: 4501 or instr consent)  
67737 001 LEC, 13:25-14:15 MWF, Pillsbury Hall 121, In Person Term Based; Meets With: 001 ESCI 8502; Peter Hudleston; 3 cr.

**4602 Sedimentology and Stratigraphy**

(Student Option; Prereq: [2203, 2301] or instr consent)  
46676 001 LEC, 14:30-15:20 TTh, Pillsbury Hall 110, In Person Term Based; Karen Kleinspehn; 3 cr.  
46677 101 LAB, 9:05-11:00 W, Pillsbury Hall 125B, In Person Term Based; Karen Kleinspehn; 3 cr.  
46678 102 LAB, 16:00-17:55 W, Pillsbury Hall 125B, In Person Term Based; Karen Kleinspehn; 3 cr.

**4702 General Hydrogeology**

(Student Option; Prereq: [concurrent registration is required (or allowed) in CHEM 1062, concurrent registration is required (or allowed) in CHEM 1066, MATH 1271, PHYS 1201] or instr consent)  
 67739 103 LAB, 14:30-16:25 F, Pillsbury Hall 100, In Person Term Based; Gene-Hua Ng; 3 cr.  
 54793 101 LAB, 9:05-11:00 F, Pillsbury Hall 100, In Person Term Based; Gene-Hua Ng; 3 cr.  
 59422 102 LAB, 12:20-14:15 F, Pillsbury Hall 100, In Person Term Based; Gene-Hua Ng; 3 cr.  
 54792 001 LEC, 13:00-14:15 TTh, Pillsbury Hall 110, In Person Term Based; Gene-Hua Ng; 3 cr.

**4801 Geomicrobiology**

(Student Option; Prereq: One semester college level biology)  
 57100 001 LEC, 14:30-15:45 MW, Pillsbury Hall 209, In Person Term Based; Meets With: 001 ESCI 8801; Jake Bailey; 3 cr.

**5203 Mineral and Rock Physics**

(Student Option; Prereq: 2201, Phys 1302)  
 57101 001 LEC, 9:05-9:55 MWF, Pillsbury Hall 121, In Person Term Based; David Kohlstedt; 3 cr.

**5351 Geochemical Modeling of Aqueous Systems**

(Student Option; Prereq: 4401)  
 67741 001 LEC, 11:15-12:30 TTh, Pillsbury Hall 121, In Person Term Based; William Seyfried; 3 cr.

**5402 Science and Politics of Global Warming**

(Student Option; )  
 57643 001 LEC, 14:30-15:45 MW, Pillsbury Hall 110, In Person Term Based; Meets With: 001 ESCI 3402; Katsumi Matsumoto; 3 cr.

**5705 Limnogeology and Paleoenvironment**

(Student Option; Prereq: instr consent)  
 67742 001 LEC, In Person Term Based; Emi Ito; 3 cr.

**5980 Seminar: Current Topics in Earth Sciences**

(S-N or Audit; )  
 57644 001 LEC, 11:15-12:30 MW, Pillsbury Hall 105, In Person Term Based; Maximiliano Bezada; 1-4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49121 001 IND, In Person Term Based; Sharon Kressler; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49220 001 IND, In Person Term Based; Sharon Kressler; 1 cr.

**8502 Tectonic Styles**

(Student Option; Prereq: 4501 or 8501 or instr consent)  
 67738 001 LEC, 13:25-14:15 MWF, Pillsbury Hall 121, In Person Term Based; Meets With: 001 ESCI 4502; Peter Hudleston; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49309 001 IND, In Person Term Based; Sharon Kressler; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49408 001 IND, In Person Term Based; Sharon Kressler; 1-18 cr.

**8801 Geomicrobiology**

(Student Option; Prereq: One semester college level biology)  
 67740 001 LEC, 14:30-15:45 MW, Pillsbury Hall 209, In Person Term Based; Meets With: 001 ESCI 4801; Jake Bailey; 3 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49530 001 IND, In Person Term Based; Sharon Kressler; 1-24 cr.

**8980 Seminar: Current Topics in Earth Sciences**

(S-N or Audit; Prereq: instr consent)  
 47760 001 LEC, 15:35-17:00 Th, Pillsbury Hall 110, In Person Term Based; Sharon Kressler; 1-4 cr.

**8994 Research in Earth Sciences**

(Student Option; Prereq: instr consent)  
 47761 001 IND, In Person Term Based; Sharon Kressler; 1-4 cr.

**East Asian Studies (EAS)****3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present**

(Student Option; GP,HIS)  
 51303 003 DIS, 12:20-13:10 M, Blegen Hall 260, In Person Term Based; Meets With: 003 HIST 3462; 3-4 cr.  
 60196 002 DIS, 11:15-12:05 M, Blegen Hall 330, In Person Term Based; Meets With: 002 HIST 3462; 3-4 cr.  
 51302 001 LEC, 9:45-11:00 MW, Blegen Hall 317, In Person Term Based; Meets With: 001 HIST 3462; Ann Waltner; 3-4 cr.

**3479 History of Chinese Cities and Urban Life**

(A-F or Audit; )  
 59505 001 LEC, 11:15-12:30 MW, Blegen Hall 155, In Person Term Based; Meets With: 001 HIST 3479; Liping Wang; 3-4 cr.

**Ecology, Evolution, and Behav (EEB)****3001 Ecology and Society**

(A-F or Audit; Prereq: [Jr or sr] recommended; biological sciences students may not apply cr toward major ENV)  
 50201 001 LEC, 13:00-14:15 TTh, Rapson Hall 54, In Person Term Based; Elizabeth Borer; 3 cr.

**3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology**

(A-F or Audit; )  
 55514 005 LAB, 11:15-12:05 Th, Blegen Hall 318, In Person Term Based; Meets With: 005 ANTH 3002; Kara Kersteter; 4 cr.  
 55513 004 LAB, 11:15-12:05 W, Blegen Hall 318, In Person Term Based; Meets With: 004 ANTH 3002; Kara Kersteter; 4 cr.  
 55512 003 LAB, 14:30-15:20 T, Blegen Hall 318, In Person Term Based; Meets With: 003 ANTH 3002; Kara Kersteter; 4 cr.  
 55510 001 LEC, 9:45-11:00 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 ANTH 3002; Michael Wilson; 4 cr.  
 55511 002 LAB, 10:10-11:00 M, Blegen Hall 318, In Person Term Based; Meets With: 002 ANTH 3002; Kara Kersteter; 4 cr.

**3408W Ecology**

(Student Option; Prereq: [One semester college biology or instr consent], [MATH 1142 or MATH 1271 or Math 1272 or Math 1241 or Math 1242 or MATH 1281 or Math 1282 or equiv]WI)  
 60954 006 LAB, 9:35-12:35 Th, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60952 004 LAB, 9:35-12:35 W, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60950 002 LAB, 9:35-12:35 T, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60953 005 LAB, 12:50-15:50 W, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60955 007 LAB, 13:55-16:55 Th, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60951 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 6, In Person Term Based; Elizabeth Borer; 3 cr.  
 60949 001 LEC, 8:30-9:20 MW, Ruttan Hall B45, In Person Term Based; Elizabeth Borer; 3 cr.

**3409 Evolution**

(Student Option; Prereq: One semester college biology)

60857 001 LEC, 10:40-11:30 MW, Hodson Hall 495, In Person Term Based; Meets With: 001 EEB 5409; Emma Goldberg; 3 cr.  
 60861 005 LAB, 8:30-11:30 F, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 5409; Emma Goldberg; 3 cr.  
 60858 002 LAB, 9:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 5409; Emma Goldberg; 3 cr.  
 60860 004 LAB, 13:55-16:55 W, Biological Sciences Ctr 245, In Person Term Based; Meets With: 004 EEB 5409; Emma Goldberg; 3 cr.  
 60859 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 003 EEB 5409; Emma Goldberg; 3 cr.

**3412W Introduction to Animal Behavior**

(A-F only; Prereq: Undergrad biology courseWI)  
 60964 001 LEC, 10:15-11:30 MW, McNeal Hall 33, In Person Term Based; Emilie Snell-Rood; 4 cr.  
 60966 003 LAB, 8:30-11:30 Th, Biological Sciences Ctr 151, In Person Term Based; Emilie Snell-Rood; 4 cr.  
 60969 006 LAB, 9:35-12:35 F, Biological Sciences Ctr 151, In Person Term Based; Emilie Snell-Rood; 4 cr.  
 60967 004 LAB, 12:50-15:50 Th, Biological Sciences Ctr 151, In Person Term Based; Emilie Snell-Rood; 4 cr.  
 60965 002 LAB, 12:50-15:50 W, Biological Sciences Ctr 151, In Person Term Based; Emilie Snell-Rood; 4 cr.  
 60968 005 LAB, 16:30-19:30 Th, Biological Sciences Ctr 151, In Person Term Based; Emilie Snell-Rood; 4 cr.

**3603 Science, Protection, and Management of Aquatic Environments**

(Student Option; Prereq: One semester college biology)  
 57316 001 LEC, 11:45-13:00 MW, Borlaug Hall 365, In Person Term Based; Jacques Finlay; 3 cr.

**4134 Introduction to Ornithology**

(Student Option; Prereq: Biol 1001 or Biol 2012)  
 46945 001 LEC, 11:45-12:35 TTh, Ruttan Hall B35, In Person Term Based; Robert Zink; 4 cr.  
 46947 003 LAB, 8:30-11:30 Th, Ecology Building 150, In Person Term Based; Robert Zink; 4 cr.  
 46946 002 LAB, 8:30-11:30 T, Ecology Building 150, In Person Term Based; Robert Zink; 4 cr.

**4611 Biogeochemical Processes**

(Student Option; Prereq: [BIOC 2331, CHEM 2301, PHYS 1201] or instr consent)  
 53536 001 LEC, 10:15-11:30 TTh, Biological Sciences Ctr 12, In Person Term Based; James Cotner; 3 cr.

**4793W Directed Studies: Writing Intensive**

(S-N or Audit; Prereq: instr consent, dept consentWI)  
 51269 004 IND, In Person Term Based; 1-7 cr.  
 51270 005 IND, In Person Term Based; 1-7 cr.  
 51271 006 IND, In Person Term Based; 1-7 cr.  
 51272 007 IND, In Person Term Based; 1-7 cr.  
 51273 008 IND, In Person Term Based; 1-7 cr.  
 51267 002 IND, In Person Term Based; 1-7 cr.  
 51268 003 IND, In Person Term Based; 1-7 cr.  
 49760 001 IND, In Person Term Based; ; 1-7 cr.

**4794W Directed Research: Writing Intensive**

(S-N or Audit; Prereq: instr consent, dept consentWI)  
 51274 002 IND, In Person Term Based; ; 1-6 cr.  
 51275 003 IND, In Person Term Based; ; 1-6 cr.  
 51281 009 IND, In Person Term Based; 1-6 cr.  
 51282 010 IND, In Person Term Based; 1-6 cr.  
 51276 004 IND, In Person Term Based; 1-6 cr.  
 51277 005 IND, In Person Term Based; 1-6 cr.  
 51278 006 IND, In Person Term Based; 1-6 cr.  
 51279 007 IND, In Person Term Based; 1-6 cr.  
 51280 008 IND, In Person Term Based; 1-6 cr.  
 49761 001 IND, In Person Term Based; ; 1-6 cr.

**4993 Directed Studies**

(S-N or Audit; Prereq: instr consent, dept consent)  
 51285 004 IND, In Person Term Based; 1-7 cr.  
 51286 005 IND, In Person Term Based; 1-7 cr.  
 51287 006 IND, In Person Term Based; 1-7 cr.  
 51288 007 IND, In Person Term Based; 1-7 cr.  
 51289 008 IND, In Person Term Based; 1-7 cr.  
 51290 009 IND, In Person Term Based; 1-7 cr.  
 51291 010 IND, In Person Term Based; 1-7 cr.  
 48975 001 IND, In Person Term Based; 1-7 cr.  
 51283 002 IND, In Person Term Based; 1-7 cr.  
 51284 003 IND, In Person Term Based; 1-7 cr.

**4994 Directed Research**

(S-N only; Prereq: instr consent, dept consent)  
 51298 008 IND, In Person Term Based; 1-6 cr.

51299 009 IND, In Person Term Based; 1-6 cr.  
 51300 010 IND, In Person Term Based; 1-6 cr.  
 48976 001 IND, In Person Term Based; 1-6 cr.  
 51292 002 IND, In Person Term Based; 1-6 cr.  
 51293 003 IND, In Person Term Based; 1-6 cr.  
 51294 004 IND, In Person Term Based; 1-6 cr.  
 51295 005 IND, In Person Term Based; 1-6 cr.  
 51296 006 IND, In Person Term Based; 1-6 cr.  
 51297 007 IND, In Person Term Based; 1-6 cr.

### 5146 Science and Policy of Global Environmental Change

(A-F or Audit; Prereq: Biol 3407 Biol 5407 or equiv)  
 59092 001 LEC, 10:15-11:30 TTh, Lrng & Environmental Sci R380, In Person Term Based; Meets With: 002 PA 5790001 FNRM 5146; Sarah Hobbie; 3 cr.

### 5327 Behavioral Ecology

(Student Option; Prereq: Biol 3411 or instr consent)  
 60710 001 LEC, 13:30-14:45 TTh, Ecology Building 150, In Person Term Based; David Stephens; 3 cr.

### 5409 Evolution

(Student Option; Prereq: One semester college biology)

61006 001 LEC, 10:40-11:30 MW, Hodson Hall 495, In Person Term Based; Meets With: 001 EEB 3409; Emma Goldberg; 3 cr.  
 61010 005 LAB, 8:30-11:30 F, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 3409; Emma Goldberg; 3 cr.  
 61007 002 LAB, 9:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 3409; Emma Goldberg; 3 cr.  
 61009 004 LAB, 13:55-16:55 W, Biological Sciences Ctr 245, In Person Term Based; Meets With: 004 EEB 3409; Emma Goldberg; 3 cr.  
 61008 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 003 EEB 3409; Emma Goldberg; 3 cr.

### 8200 Sustainability Science Distributed Graduate Seminar

(Student Option; )  
 59050 001 LEC, 12:00-13:30 TTh, Lrng & Environmental Sci R380, In Person Term Based; Stephen Polasky; 3 cr.

### 8202 Graduate Foundations in Ecology, Evolution and Behavior - Semester 2

(A-F only; Prereq: 8601, EEB grad student)  
 59051 001 LEC, 13:00-14:30 F, Ecology Building 150, 11:30-13:00 MW, Ecology Building 150, In Person Term Based; Marlene Zuk; 4 cr.

### 8302 EEB Written Prelim Workshop

(S-N only; Prereq: EEB grad student)  
 60469 001 DIS, 14:00-15:45 M, Ecology Building 505, In Person Term Based; Sarah Hobbie; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49113 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49213 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49302 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49400 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49523 001 IND, In Person Term Based; 1-24 cr.

### 8980 Seminar on Current Topics

(S-N only; Prereq: EEB grad student)  
 49789 003 LEC, In Person Term Based; 1-3 cr.  
 50355 005 LEC, In Person Term Based; 1-3 cr.  
 52874 006 LEC, In Person Term Based; 1-3 cr.

50244 004 LEC, In Person Term Based; 1-3 cr.  
 47986 001 LEC, 17:00-17:50 W, Ecology Building 505, In Person Term Based; Jacques Finlay; 1-3 cr.  
 49788 002 LEC, 15:30-16:20 W, Borlaug Hall 335, In Person Term Based; Jacques Finlay; 1-3 cr.

### 8990 Graduate Seminar

(Student Option; Prereq: instr consent)  
 51052 003 LEC, In Person Term Based; 1-3 cr.  
 51059 004 LEC, In Person Term Based; 1-3 cr.  
 51084 006 LEC, In Person Term Based; 1-3 cr.  
 51099 007 LEC, In Person Term Based; 1-3 cr.  
 54506 005 LEC, In Person Term Based; 1-3 cr.  
 51048 002 LEC, In Person Term Based; Fredrick Barker; 1-3 cr.  
 47953 001 LEC, In Person Term Based; Ruth Shaw; 1-3 cr.

### 8991 Independent Study: Ecology, Evolution, and Behavior

(Student Option; Prereq: instr consent)  
 53404 002 IND, In Person Term Based; 1-10 cr.  
 53405 003 IND, In Person Term Based; 1-5 cr.  
 47954 001 IND, In Person Term Based; 1-10 cr.

### 8994 Directed Research

(S-N or Audit; Prereq: instr consent)  
 55169 002 IND, In Person Term Based; 1-5 cr.  
 55170 003 IND, In Person Term Based; 1-5 cr.  
 47955 001 IND, In Person Term Based; 1-5 cr.

## Economics (ECON)

### 1101 Principles of Microeconomics

(Student Option; Prereq: knowledge of plane geometry and advanced algebraGP,SOCS)

53353 048 LEC, 16:00-17:15 TTh, Room TBA, In Person Term Based; 4 cr.  
 50044 040 LEC, 16:00-17:15 MW, Room TBA, In Person Term Based; 4 cr.  
 50045 041 DIS, 17:30-18:20 W, Room TBA, In Person Term Based; 4 cr.  
 47700 003 DIS, 10:10-11:00 W, Blegen Hall 125, In Person Term Based; Catherine Bach; 4 cr.  
 47706 010 DIS, 11:15-12:05 W, Blegen Hall 140, In Person Term Based; Catherine Bach; 4 cr.  
 47702 005 DIS, 13:25-14:15 W, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 47703 006 DIS, 13:25-14:15 W, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 47712 022 DIS, 12:20-13:10 W, Blegen Hall 225, In Person Term Based; Catherine Bach; 4 cr.  
 55940 050 DIS, 17:30-18:20 W, Blegen Hall 140, In Person Term Based; Catherine Bach; 4 cr.  
 55941 051 DIS, 17:30-18:20 Th, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 59296 A94 LEC, Online & Distance Lrng (ODL); Minesh Amin; 4 cr.  
 47707 011 DIS, 11:15-12:05 W, Blegen Hall 125, In Person Term Based; Simran Sahi; 4 cr.  
 47708 018 DIS, 10:10-11:00 W, Blegen Hall 225, In Person Term Based; Simran Sahi; 4 cr.  
 47711 021 DIS, 11:15-12:05 W, Blegen Hall 330, In Person Term Based; Simran Sahi; 4 cr.  
 47709 019 DIS, 12:20-13:10 W, Blegen Hall 330, In Person Term Based; Simran Sahi; 4 cr.  
 50048 044 LEC, 17:30-20:00 Th, Blegen Hall 330, In Person Term Based; Simran Sahi; 4 cr.  
 47710 020 DIS, 11:15-12:05 W, Blegen Hall 335, In Person Term Based; Simran Sahi; 4 cr.  
 52984 046 LEC, 16:00-17:15 TTh, Carlson School of Mgmt 1-127, In Person Term Based; Simran Sahi; 4 cr.  
 47713 025 DIS, 10:10-11:00 W, Blegen Hall 205, In Person Term Based; Simran Sahi; 4 cr.  
 47704 008 DIS, 14:30-15:20 W, Blegen Hall 205, In Person Term Based; Simran Sahi; 4 cr.  
 47705 009 DIS, 14:30-15:20 W, Blegen Hall 260, In Person Term Based; Simran Sahi; 4 cr.  
 50786 034 DIS, 17:30-18:20 W, Carlson School of Mgmt 2-219, In Person Term Based; Simran Sahi; 4 cr.  
 47698 001 LEC, 9:05-9:55 MWF, Willey Hall 175, In Person Term Based; Simran Sahi; 4 cr.  
 53354 049 DIS, 17:30-18:20 Th, Room TBA, In Person Term Based; Simran Sahi; 4 cr.  
 52985 047 DIS, 17:30-18:20 Th, Hubert H. Humphrey Center 60, In Person Term Based; Simran Sahi; 4 cr.  
 50049 045 DIS, 20:00-20:50 Th, Blegen Hall 115, In Person Term Based; Catherine Bach; 4 cr.  
 50043 039 DIS, 20:00-20:50 W, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 50042 038 LEC, 17:30-20:00 W, Blegen Hall 225, In Person Term Based; Catherine Bach; 4 cr.  
 50785 033 LEC, 16:00-17:15 MW, Blegen Hall 225, In Person Term Based; Catherine Bach; 4 cr.

47701 004 DIS, 12:20-13:10 W, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 47699 002 DIS, 10:10-11:00 W, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 50046 042 LEC, 17:30-20:00 W, Blegen Hall 205, In Person Term Based; Simran Sahi; 4 cr.  
 50047 043 DIS, 20:00-20:50 W, Blegen Hall 260, In Person Term Based; Simran Sahi; 4 cr.  
 50035 036 LEC, 17:30-20:00 T, Blegen Hall 140, In Person Term Based; Simran Sahi; 4 cr.  
 50036 037 DIS, 20:00-20:50 T, Blegen Hall 205, In Person Term Based; Simran Sahi; 4 cr.

### 1102 Principles of Macroeconomics

(Student Option; Prereq: [1101 or equiv], knowledge of plane geometry and advanced algebra)

47724 016 DIS, 8:00-8:50 F, Blegen Hall 115, In Person Term Based; Catherine Bach; 4 cr.  
 47730 022 DIS, 13:25-14:15 F, Blegen Hall 115, In Person Term Based; Catherine Bach; 4 cr.  
 47729 021 DIS, 13:25-14:15 F, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 47727 019 DIS, 12:20-13:10 F, Blegen Hall 115, In Person Term Based; Catherine Bach; 4 cr.  
 50343 023 DIS, 9:05-9:55 F, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 47721 008 DIS, 12:20-13:10 F, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 47725 017 DIS, 12:20-13:10 F, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 47726 018 DIS, 9:05-9:55 F, Blegen Hall 225, In Person Term Based; Catherine Bach; 4 cr.  
 47717 004 DIS, 11:15-12:05 F, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 50055 030 DIS, 17:30-18:20 W, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 47722 014 DIS, 8:00-8:50 F, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 47719 006 DIS, 10:10-11:00 F, Blegen Hall 230, In Person Term Based; Catherine Bach; 4 cr.  
 50878 034 DIS, 17:30-18:20 W, Blegen Hall 330, In Person Term Based; Catherine Bach; 4 cr.  
 47716 003 DIS, 11:15-12:05 F, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 47718 005 DIS, 10:10-11:00 F, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 47715 002 DIS, 11:15-12:05 F, Blegen Hall 225, In Person Term Based; Catherine Bach; 4 cr.  
 59297 A94 LEC, Online & Distance Lrng (ODL); Minesh Amin; 4 cr.  
 54956 035 LEC, 17:00-19:30 T, Hubert H. Humphrey Center 184, In Person Term Based; Simran Sahi; 4 cr.  
 47728 020 DIS, 13:25-14:15 F, Blegen Hall 205, In Person Term Based; Simran Sahi; 4 cr.  
 47723 015 DIS, 8:00-8:50 F, Blegen Hall 260, In Person Term Based; Simran Sahi; 4 cr.  
 50344 024 DIS, 9:05-9:55 F, Blegen Hall 260, In Person Term Based; Simran Sahi; 4 cr.  
 47720 007 DIS, 10:10-11:00 F, Blegen Hall 225, In Person Term Based; Simran Sahi; 4 cr.  
 47714 001 LEC, 9:45-11:00 TTh, Willey Hall 175, In Person Term Based; Simran Sahi; 4 cr.  
 54957 036 DIS, 19:45-20:35 T, Blegen Hall 225, In Person Term Based; Simran Sahi; 4 cr.  
 50053 028 DIS, 20:00-20:50 T, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 50052 027 LEC, 17:30-20:00 T, Blegen Hall 335, In Person Term Based; Catherine Bach; 4 cr.  
 50057 032 DIS, 20:00-20:50 T, Blegen Hall 115, In Person Term Based; Catherine Bach; 4 cr.  
 50056 031 LEC, 17:30-20:00 T, Blegen Hall 330, In Person Term Based; Catherine Bach; 4 cr.  
 50050 025 LEC, 17:30-20:00 W, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 50054 029 LEC, 16:00-17:15 MW, Blegen Hall 205, In Person Term Based; Catherine Bach; 4 cr.  
 50877 033 LEC, 16:00-17:15 MW, Blegen Hall 260, In Person Term Based; Catherine Bach; 4 cr.  
 50051 026 DIS, 20:00-20:50 W, Blegen Hall 115, In Person Term Based; Simran Sahi; 4 cr.

### 3101 Intermediate Microeconomics

(A-F only; Prereq: [(1101, 1102) or equiv], [MATH 1271 or equiv])

67343 007 DIS, 11:15-12:05 M, Blegen Hall 125, In Person Term Based; 4 cr.  
 47197 001 LEC, 8:15-9:30 TTh, Anderson Hall 210, In Person Term Based; Simran Sahi; 4 cr.  
 54542 004 DIS, 10:10-11:00 M, Blegen Hall 140, In Person Term Based; Simran Sahi; 4 cr.  
 56805 006 DIS, 11:15-12:05 M, Blegen Hall 140, In Person Term Based; Simran Sahi; 4 cr.  
 55160 005 DIS, 10:10-11:00 M, Blegen Hall 125, In Person Term Based; Catherine Bach; 4 cr.  
 47199 003 DIS, 9:05-9:55 M, Blegen Hall 125, In Person Term Based; Simran Sahi; 4 cr.

47198 002 DIS, 9:05-9:55 M, Blegen Hall 140, In Person  
Term Based; Simran Sahi; 4 cr.

### 3102 Intermediate Macroeconomics

(Student Option; Prereq: 3101 or equiv)  
47201 003 LEC, 8:15-9:30 TTh, Blegen Hall 125, In Person  
Term Based; Simran Sahi; 4 cr.  
55130 005 LEC, 16:00-17:15 TTh, Blegen Hall 140, In  
Person Term Based; Simran Sahi; 4 cr.  
47202 004 LEC, 17:30-20:00 M, Blegen Hall 140, In Person  
Term Based; Catherine Bach; 4 cr.  
47200 002 LEC, 11:15-12:30 MW, Blegen Hall 255, In  
Person Term Based; Simran Sahi; 4 cr.

### 3951 Major Project Seminar

(A-F only; Prereq: 3101, 3102, STAT 3011, [STAT 3022  
or equiv], two [3xxx or 4xxx] ECON courses, at least  
one 4xxx ECON writing intensive course, freshman  
writing requirement satisfied)  
47203 001 IND, 8:15-9:30 WF, Blegen Hall 317, In Person  
Term Based; Catherine Bach; 2 cr.

### 3960 Topics in Economics

(Student Option; Prereq: [1101, 1102] or equiv)  
58150 001 LEC, 14:30-15:45 M, Blegen Hall 110, In Person  
Term Based; Simran Sahi; 3 cr.

### 3991 Independent Study

(A-F or Audit; Prereq: 3101, 3102, dept consent)  
47204 001 IND, In Person Term Based; Catherine Bach; 1-3  
cr.

### 3993 Directed Studies

(Student Option; Prereq: 3101, 3102, 4261, two  
semesters of statistics)  
47205 001 IND, In Person Term Based; Catherine Bach; 1-3  
cr.

### 4100W Undergraduate Writing in Economics

(A-F or Audit; Prereq: 3101, [concurrent registration is  
required (or allowed) in 4831 or concurrent registration  
is required (or allowed) in economics honors course],  
freshman writing practice completed, instr consentWI)  
50034 001 LEC, 14:30-15:20 M, Blegen Hall 230, In Person  
Term Based; Simran Sahi; 1 cr.

### 4118 Advanced Mathematical Economics

(A-F only; Prereq: [3101, 3102 or equiv], [MATH 1271,  
MATH 1272, MATH 2243 or equiv])  
67345 001 LEC, 14:30-15:45 MW, Blegen Hall 140, In  
Person Term Based; 4 cr.

### 4163 Microeconomic Analysis

(Student Option; Prereq: 3101, 3102, 4162, MATH 2243,  
MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept  
consent)  
48824 001 LEC, 11:15-12:30 TTh, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 001 ECON  
8003; Catherine Bach; 2 cr.  
48825 002 DIS, 16:00-17:15 Th, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
8003; Catherine Bach; 2 cr.

### 4164 Microeconomic Analysis

(Student Option; Prereq: 3101, 3102, 4163, MATH 2243,  
MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept  
consent)  
48829 002 DIS, 16:00-17:15 Th, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
8004; Catherine Bach; 2 cr.  
48828 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-111,  
In Person Term Based; Meets With: 001 ECON 8004;  
Catherine Bach; 2 cr.

### 4167 Macroeconomic Theory

(Student Option; Prereq: 3101, 3102, 4166, MATH 2243,  
MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept  
consent)  
50038 001 LEC, 14:30-15:45 TTh, Blegen Hall 335, In  
Person Term Based; Meets With: 001 ECON 8107;  
Catherine Bach; 2 cr.  
50039 002 DIS, 16:00-17:15 T, Carlson School of Mgmt  
L-118, In Person Term Based; Meets With: 002 ECON  
8107; Catherine Bach; 2 cr.

### 4168 Macroeconomic Theory

(Student Option; Prereq: 3101, 3102, 4167, MATH 2243,  
MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept  
consent)  
50032 001 LEC, 14:30-15:45 TTh, Blegen Hall 335, In  
Person Term Based; Meets With: 001 ECON 8108;  
Catherine Bach; 2 cr.

50033 002 DIS, 16:00-17:15 T, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
8108; Catherine Bach; 2 cr.

### 4261 Introduction to Econometrics

(A-F or Audit; Prereq: [3101 or equiv], [[Math 1271,  
Math 1272] or equiv], Math 2243, Math 2263, [[Stat 4101,  
Stat 4102] or [Stat 5101, Stat 5102]]; Math 4242 strongly  
recommended)  
57716 003 DIS, 12:20-13:10 T, Blegen Hall 230, In Person  
Term Based; Catherine Bach; 4 cr.  
52992 001 LEC, 9:45-11:00 TTh, Anderson Hall 330, In  
Person Term Based; Simran Sahi; 4 cr.  
57715 004 DIS, 13:25-14:15 Th, Blegen Hall 140, In Person  
Term Based; Simran Sahi; 4 cr.  
52993 002 DIS, 12:20-13:10 Th, Blegen Hall 230, In Person  
Term Based; Simran Sahi; 4 cr.

### 4311 Economy of Latin America

(Student Option; Prereq: [1101, 1102] or equiv)  
47271 001 LEC, 17:00-19:30 M, Blegen Hall 215, In Person  
Term Based; Catherine Bach; 3 cr.

### 4331W Economic Development

(Student Option; Prereq: [[3101, 3102] or equiv],  
completion of freshman writing practiceWI)  
47206 001 LEC, 17:30-20:00 Th, Blegen Hall 140, In Person  
Term Based; Catherine Bach; 3 cr.  
58175 002 LEC, 16:00-17:15 MW, Blegen Hall 145, In  
Person Term Based; Catherine Bach; 3 cr.

### 4337 Comparative Economic Systems

(Student Option; Prereq: 3101, 3102 or equiv)  
47207 001 LEC, 13:00-14:15 MW, Blegen Hall 110, In  
Person Term Based; Catherine Bach; 3 cr.

### 4401 International Economics

(Student Option; Prereq: [[1101, 1102] or equiv], not  
open to econ majorsGP)  
47184 001 LEC, 16:00-17:15 MW, Blegen Hall 140, In  
Person Term Based; Catherine Bach; 3 cr.

### 4431W International Trade

(Student Option; Prereq: [3101, 3102] or equiv,  
freshman writing practiceGP,WI)  
49693 001 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-111,  
In Person Term Based; Simran Sahi; 3 cr.

### 4432W International Finance

(Student Option; Prereq: 3101, 3102 or equiv; 4431 or  
4439 or equiv recommendedWI)  
47208 002 LEC, 8:15-9:30 MW, Hanson Hall, Room 1-105,  
In Person Term Based; Catherine Bach; 3 cr.

### 4438W Advanced International Trade

(A-F only; Prereq: [3101, 3102] or equiv, Math 1271,  
completion of freshman writing practiceGP,WI)  
67342 001 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-109,  
In Person Term Based; 4 cr.

### 4531 Labor Economics

(Student Option; Prereq: 3101, 3102 or equiv)  
56797 001 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-107,  
In Person Term Based; Simran Sahi; 3 cr.

### 4621 Urban Economics

(Student Option; Prereq: [3101, 3102] or equivalents)  
58199 001 LEC, 14:30-15:45 MW, Blegen Hall 120, In  
Person Term Based; Catherine Bach; 3 cr.

### 4631 Industrial Organization and Antitrust Policy

(Student Option; Prereq: 3101 or equiv)  
52991 001 LEC, 9:45-11:00 MW, Hanson Hall, Room 1-107,  
In Person Term Based; Simran Sahi; 3 cr.

### 4721 Money and Banking

(Student Option; Prereq: [3101, 3102] or equiv)  
47210 002 LEC, 12:45-14:00 TTh, Blegen Hall 255, In  
Person Term Based; Catherine Bach; 3 cr.

### 4738 Advanced Macroeconomic Policy

(A-F only; Prereq: [[3101, 3102] or equiv], Math 1271)  
67344 001 LEC, 17:00-19:30 T, Blegen Hall 435, In Person  
Term Based; 4 cr.

### 4751 Financial Economics

(Student Option; Prereq: [3101 or equiv], [MATH 1271  
or equiv], one sem statistics)  
55131 002 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-109,  
In Person Term Based; Simran Sahi; 3 cr.  
49616 001 LEC, 8:15-9:30 TTh, Hanson Hall, Room 1-107,  
In Person Term Based; Catherine Bach; 3 cr.

### 4751H Honors: Financial Economics

(A-F only; Prereq: 3101, [3102 or equiv], [Math 1271 or  
equiv], [Stat 3011 or equiv])  
69026 001 LEC, 9:45-11:00 TTh, Blegen Hall 110, In Person  
Term Based; Catherine Bach; 4 cr.

### 4821 Public Economics

(Student Option; Prereq: [3101, 3102] or equiv)  
58152 001 LEC, 8:15-9:30 TTh, Hanson Hall, Room 1-103,  
In Person Term Based; Simran Sahi; 3 cr.

### 4831 Cost-Benefit Analysis

(Student Option; Prereq: 3101 or equiv)  
50879 001 LEC, 11:15-12:30 MW, Hanson Hall, Room 1-105,  
In Person Term Based; Simran Sahi; 3 cr.

### 4960 Topics in Economics

(A-F only; Prereq: [3101 or 3102 or equiv], MATH 1271)  
57453 001 LEC, 14:30-15:45 TTh, Blegen Hall 115, In  
Person Term Based; Catherine Bach; 3 cr.

### 4968 Advanced Topics

(A-F only; Prereq: [[3101, 3102] or equiv], MATH 1271,  
[Stat 3011 or equiv], successfully complete at least two  
4xxx level UMNTC economics courses.)  
67346 001 LEC, 14:30-15:45 TTh, Blegen Hall 155, In  
Person Term Based; 4 cr.  
67347 002 LEC, 17:00-19:30 T, Hanson Hall, Room 1-105, In  
Person Term Based; 4 cr.

### 4993 Directed Study

(Student Option; Prereq: dept consent)  
47211 001 IND, In Person Term Based; Catherine Bach; 1-4  
cr.

### 8003 Microeconomic Analysis

(Student Option; Prereq: 8002)  
48822 001 LEC, 11:15-12:30 TTh, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 001 ECON  
4163; Catherine Bach; 2 cr.  
48823 002 DIS, 16:00-17:15 Th, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
4163; Catherine Bach; 2 cr.

### 8004 Microeconomic Analysis

(Student Option; Prereq: 8003)  
48827 002 DIS, 16:00-17:15 Th, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
4164; Catherine Bach; 2 cr.  
48826 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-111,  
In Person Term Based; Meets With: 001 ECON 4164;  
Catherine Bach; 2 cr.

### 8103 Microeconomic Theory

(Student Option; Prereq: 8102, concurrent registration  
is required (or allowed) in Math 5616 or concurrent  
registration is required (or allowed) in Math 8602 or  
comparable abstract math course, grad econ major or  
instr consent)  
47488 001 LEC, 9:45-11:00 TTh, Blegen Hall 225, In Person  
Term Based; Catherine Bach; 2 cr.  
47489 002 DIS, 16:00-17:15 Th, Blegen Hall 430, In Person  
Term Based; Catherine Bach; 2 cr.

### 8104 Microeconomic Theory

(Student Option; Prereq: 8103, concurrent registration  
is required (or allowed) in Math 5616 or concurrent  
registration is required (or allowed) in Math 8602 or  
comparable abstract math course, grad econ major or  
instr consent)  
47490 001 LEC, 9:45-11:00 TTh, Blegen Hall 225, In Person  
Term Based; Catherine Bach; 2 cr.  
47491 002 DIS, 16:00-17:15 Th, Blegen Hall 430, In Person  
Term Based; Catherine Bach; 2 cr.

### 8107 Macroeconomic Theory

(Student Option; Prereq: 8106)  
50040 001 LEC, 14:30-15:45 TTh, Blegen Hall 335, In  
Person Term Based; Meets With: 001 ECON 4167;  
Catherine Bach; 2 cr.  
50041 002 DIS, 16:00-17:15 T, Carlson School of Mgmt  
L-118, In Person Term Based; Meets With: 002 ECON  
4167; Catherine Bach; 2 cr.

### 8108 Macroeconomic Theory

(Student Option; Prereq: 8107)  
48830 001 LEC, 14:30-15:45 TTh, Blegen Hall 335, In  
Person Term Based; Meets With: 001 ECON 4168;  
Catherine Bach; 2 cr.  
48831 002 DIS, 16:00-17:15 T, Carlson School of Mgmt  
2-219, In Person Term Based; Meets With: 002 ECON  
4168; Catherine Bach; 2 cr.

### 8118 Noncooperative Game Theory

(Student Option; Prereq: 8117)  
60775 001 LEC, In Person Term Based; 2 cr.

### 8119 Cooperative Game Theory

(Student Option; Prereq: 8104, Math 5616 or equiv or instr consent)  
60774 001 LEC, 11:15-12:55 MW, Hanson Hall, Room 4-168, In Person Term Based; Catherine Bach; 2 cr.

### 8181 Advanced Topics in Microeconomics

(Student Option; Prereq: 8104 or instr consent)  
60776 001 LEC, 16:00-17:40 TTh, Hanson Hall, Room 4-190, In Person Term Based; Catherine Bach; 2 cr.

### 8182 Advanced Topics in Microeconomics

(Student Option; Prereq: 8104 or instr consent)  
60777 001 LEC, 16:00-16:50 TTh, Hanson Hall, Room 4-190, In Person Term Based; Catherine Bach; 2 cr.

### 8186 Advanced Topics in Macroeconomics

(Student Option; Prereq: 8108 or instr consent)  
67341 001 LEC, In Person Term Based; 2 cr.

### 8192 Workshop in Mathematical Economics

(Student Option; Prereq: 8104 or instr consent)  
60972 002 LEC, In Person Term Based; 1-3 cr.  
47496 001 LEC, 18:00-20:00 T, Hanson Hall, Room 4-168, In Person Term Based; Catherine Bach; 1-3 cr.

### 8207 Applied Econometrics

(Student Option; Prereq: 8206, concurrent registration is required (or allowed) in 8103, concurrent registration is required (or allowed) in 8107, concurrent registration is required (or allowed) in Stat 5102 or instr consent)  
47492 001 LEC, 11:15-12:30 TTh, Blegen Hall 125, In Person Term Based; Simran Sahi; 2 cr.  
47493 002 DIS, 16:40-18:00 F, Blegen Hall 105, In Person Term Based; Simran Sahi; 2 cr.

### 8208 Applied Econometrics

(Student Option; Prereq: 8207, concurrent registration is required (or allowed) in 8104, concurrent registration is required (or allowed) in 8108, concurrent registration is required (or allowed) in Stat 5102 or instr consent)  
52353 002 DIS, 16:40-18:00 F, Blegen Hall 105, In Person Term Based; Simran Sahi; 2 cr.  
52352 001 LEC, 11:15-12:30 TTh, Blegen Hall 125, In Person Term Based; Simran Sahi; 2 cr.

### 8313 Economic Growth and Development

(Student Option; Prereq: 8312 or instr consent)  
67359 001 LEC, In Person Term Based; 2 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49109 001 IND, In Person Term Based; 1 cr.

### 8392 Workshop in Economic Growth and Development

(Student Option; Prereq: instr consent)  
50880 001 LEC, 17:30-19:00 W, Hanson Hall, Room 4-190, In Person Term Based; Catherine Bach; 1-3 cr.

### 8403 International Trade and Payments Theory

(Student Option; Prereq: 8402 or instr consent)  
47494 001 LEC, 17:30-20:50 W, Hanson Hall, Room 4-168, In Person Term Based; Simran Sahi; 2 cr.

### 8404 International Trade and Payments Theory

(Student Option; Prereq: [8402, 8403] or instr consent)  
67332 001 LEC, In Person Term Based; 2 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49208 001 IND, In Person Term Based; 1 cr.

### 8481 Advanced Topics in International Trade

(Student Option; Prereq: 8403 or instr consent)  
60780 001 LEC, In Person Term Based; 2 cr.

### 8482 Advanced Topics in International Trade

(Student Option; Prereq: 8403 or instr consent)  
67333 001 LEC, In Person Term Based; 2 cr.

### 8492 Workshop in Trade and Development

(Student Option; Prereq: instr consent)

47512 001 LEC, 15:30-18:30 F, Hanson Hall, Room 1-103, In Person Term Based; Catherine Bach; 1-3 cr.

### 8502 Wages and Employment

(Student Option; Prereq: 8501 or instr consent)  
60778 001 LEC, 9:05-11:00 TTh, Hanson Hall, Room 4-170, In Person Term Based; 2 cr.

### 8503 Wages and Employment

(Student Option; Prereq: 8502 or instr consent)  
55561 002 LEC, 9:05-11:00 TTh, Hanson Hall, Room 4-170, In Person Term Based; Simran Sahi; 2 cr.

### 8581 Advanced Topics in Labor Economics

(Student Option; Prereq: 8502 or instr consent)  
60837 001 LEC, 11:15-13:00 MW, Hanson Hall, Room 4-170, In Person Term Based; Simran Sahi; 2 cr.

### 8602 Industrial Organization and Government Regulation

(Student Option; Prereq: 8601 or instr consent)  
68762 001 LEC, 14:30-15:45 MW, Hanson Hall, Room 4-190, In Person Term Based; Catherine Bach; 2 cr.

### 8603 Industrial Organization and Government Regulation

(Student Option; Prereq: 8602 or instr consent)  
68763 001 LEC, In Person Term Based; 2 cr.  
69057 002 LEC, 14:30-15:45 M, Hanson Hall, Room 4-170, In Person Term Based; Catherine Bach; 2 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49297 001 IND, In Person Term Based; 1-6 cr.

### 8692 Workshop in Applied Microeconomics

(Student Option; Prereq: instr consent)  
54955 001 LEC, 12:00-13:30 T, Hanson Hall, Room 4-190, In Person Term Based; Catherine Bach; 1-3 cr.

### 8702 Monetary Economics

(Student Option; Prereq: 8701 or instr consent)  
60973 001 LEC, 14:00-17:40 F, Hanson Hall, Room 4-170, In Person Term Based; Catherine Bach; 2 cr.

### 8703 Monetary Economics

(Student Option; Prereq: 8702 or instr consent)  
47495 001 LEC, 14:00-15:45 TTh, Hanson Hall, Room 4-168, In Person Term Based; Catherine Bach; 2 cr.

### 8704 Financial Economics

(Student Option; Prereq: 8103, 8106 or instr consent)  
57315 001 LEC, In Person Term Based; 2 cr.

### 8705 Financial Economics

(Student Option; Prereq: 8704 or instr consent)  
56520 001 LEC, In Person Term Based; 2 cr.  
68761 002 LEC, 11:15-12:55 TTh, Hanson Hall, Room 4-168, In Person Term Based; Catherine Bach; 2 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49396 001 IND, In Person Term Based; 1-18 cr.

### 8792 Workshop in Macroeconomics

(Student Option; Prereq: instr consent)  
60975 002 LEC, In Person Term Based; 1-3 cr.  
60974 001 LEC, 13:00-15:00 M, Hanson Hall, Room 4-168, In Person Term Based; Catherine Bach; 1-3 cr.

### 8802 Public Economics

(Student Option; Prereq: 8801 or instr consent)  
55563 001 LEC, In Person Term Based; 2 cr.

### 8803 Public Economics

(Student Option; Prereq: 8802 or instr consent)  
55414 001 LEC, 17:30-19:10 TTh, Hanson Hall, Room 4-170, In Person Term Based; Catherine Bach; 2 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49520 001 IND, In Person Term Based; 1-24 cr.

### 8990 Individual Graduate Research

(Student Option; Prereq: instr consent)  
48296 001 IND, In Person Term Based; Catherine Bach; 1-7 cr.

## Education (EDUC)

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49111 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49210 001 IND, In Person Term Based; 1 cr.  
49211 002 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49299 001 IND, In Person Term Based; 1-6 cr.  
49300 002 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49398 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49056 001 IND, In Person Term Based; 1-24 cr.  
49057 002 IND, In Person Term Based; 1-24 cr.

## Educational Psychology (EPSY)

### 2601 Understanding Differences, Disabilities and the Career of Special Education

(A-F only; )  
60313 001 LEC, 12:20-14:15 T, Peik Hall 315, 13:00-15:00 Th, Room TBA, 12:30-15:30 Th, No Room Required, In Person Term Based; Rose Vukovic; 4 cr.

### 3101 Creativity and Intelligence: an Introduction

(Student Option No Audit; )  
57102 001 LEC, Completely Online; Meets With: 001 EPSY 5101; Sharon Sawyer; 3 cr.

### 3119 Learning, Cognition, and Assessment

(A-F or Audit; )  
46252 001 LEC, 13:00-14:15 T, Anderson Hall 270, In Person Term Based; Meets With: 001 EPSY 5001; Lori Boucher; 3 cr.  
58425 003 LAB, 13:00-14:15 Th, Burton Hall 120, In Person Term Based; Meets With: 003 EPSY 5001; Lori Boucher; 3 cr.  
58424 002 LAB, 13:00-14:15 Th, Appleby Hall 219, In Person Term Based; Meets With: 002 EPSY 5001; Sharon Sawyer; 3 cr.  
60174 004 LAB, 13:00-14:15 Th, Peik Hall 315, In Person Term Based; Meets With: 004 EPSY 5001; Sharon Sawyer; 3 cr.

### 3133 Practicum: Service Learning, Psychology of Multiculturalism in Education

(Student Option; Prereq: [3132 or concurrent registration is required (or allowed) in 3132], instr consent, enrollment in APECS minor)  
55695 001 FWK, In Person Term Based; Robert delMas; 1-3 cr.

### 3264 Basic and Applied Statistics

(Student Option; MATH)  
49321 002 LEC, 9:45-11:00 TTh, Keller Hall 2-260, In Person Term Based; Andrew Zieffler; 3 cr.  
68880 703 LEC, In Person Term Based; John Wagner; 3 cr.  
68806 700 LEC, In Person Term Based; John Wagner; 3 cr.  
68808 702 LEC, In Person Term Based; Kate Thomas; 3 cr.  
68807 701 LEC, In Person Term Based; Matthew Danielson; 3 cr.  
49931 003 LEC, 13:00-14:15 TTh, Keller Hall 2-260, In Person Term Based; Sharon Sawyer; 3 cr.  
46436 001 LEC, 13:00-14:15 MW, Bruininks Hall 530A, In Person Term Based; Sharon Sawyer; 3 cr.  
53511 004 LEC, Completely Online; Lori Boucher; 3 cr.



**3301 Introduction to Educational Psychology**

(Student Option No Audit; SOCS)  
58407 001 LEC, 11:15-12:30 TTh, Nicholson Hall 35, In Person Term Based; Sharon Sawyer; 3 cr.

**3303 Educational Psychology Undergraduate Research Practicum**

(A-F or Audit; Prereq: 3264, minor in applied psychology for educational/community settings)  
54604 001 FWK, In Person Term Based; Robert delMas; 3 cr.

**3701 Practicum: Field Experience in Special Education**

(S-N only; Prereq: instr consent)  
60314 001 FWK, In Person Term Based; Charissa O'Neill; 1-2 cr.

**4001 Teaching Students with Special Needs in Inclusive Settings**

(A-F only; Prereq: Must be enrolled in either the initial teaching licensure program for music education or agricultural education students. All other initial teaching licensure candidates should enroll in 5015 and 5016.)  
59154 001 DIS, 8:30-11:30 M, Peik Hall 365, In Person Term Based; Mary Farquhar; 1 cr.

**5001 Learning, Cognition, and Assessment**

(Student Option; Prereq: ME/initial licensure student or CLA music ed or preteaching major or instr consent; psych course recommended)  
67608 005 LEC, 16:30-17:45 T, Peik Hall 215, In Person Term Based; Lori Boucher; 3 cr.  
48545 001 LEC, 13:00-14:15 T, Anderson Hall 270, In Person Term Based; Meets With: 001 EPSY 3119; Lori Boucher; 3 cr.  
58423 003 LAB, 13:00-14:15 Th, Burton Hall 120, In Person Term Based; Meets With: 003 EPSY 3119; Lori Boucher; 3 cr.  
67609 006 LAB, 17:55-19:10 T, Peik Hall 215, In Person Term Based; Lori Boucher; 3 cr.  
58422 002 LAB, 13:00-14:15 Th, Appleby Hall 219, In Person Term Based; Meets With: 002 EPSY 3119; Sharon Sawyer; 3 cr.  
60175 004 LAB, 13:00-14:15 Th, Peik Hall 315, In Person Term Based; Meets With: 004 EPSY 3119; Sharon Sawyer; 3 cr.

**5016 Teaching Students with Special Needs in Inclusive Settings**

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
58132 001 FWK, 16:40-19:20 T, Elliott Hall N647, 16:40-19:20 W, Appleby Hall 3, Partially Online; Thomas Lachermeier; 1 cr.

**5101 Intelligence and Creativity**

(A-F or Audit; )  
53524 001 LEC, Completely Online; Meets With: 001 EPSY 3101; Sharon Sawyer; 3 cr.

**5112 Knowing, Learning, and Thinking**

(A-F or Audit; )  
60173 001 LEC, 16:40-20:00 W, Folwell Hall 121, In Person Term Based; Robert Tennyson; 4 cr.

**5113 Psychology of Instruction and Technology**

(Student Option; )  
54659 001 LEC, Completely Online; Robert Tennyson; 3 cr.

**5114 Psychology of Student Learning**

(A-F or Audit; )  
46437 001 LEC, 14:30-17:10 T, Appleby Hall 11, In Person Term Based; Keisha Varma; 3 cr.

**5151 Cooperative Learning**

(Student Option; )  
58551 001 LEC, 8:00-17:00 Sa, Folwell Hall 108, 8:00-17:00 Sa, Folwell Hall 108, 8:00-13:00 Sa, Folwell Hall 108, In Person Term Based; Roger Johnson; 3 cr.

**5221 Principles of Educational and Psychological Measurement**

(Student Option; )  
67607 001 LEC, 14:30-15:45 MW, Elliott Hall N647, In Person Term Based; Ernest Davenport; 3 cr.

**5243 Principles and Methods of Evaluation**

(Student Option; )

57263 001 LEC, 9:45-11:00 TTh, Peik Hall 225, In Person Term Based; Meets With: 001 OLPD 5501; Jean King; 3 cr.

**5246 Evaluation Colloquium: Psychological Foundations**

(S-N or Audit; Prereq: 5243 or edPA 5501)  
54373 001 LEC, In Person Term Based; Meets With: 001 OLPD 5524; Karen Storm; 1 cr.

**5261 Introductory Statistical Methods**

(Student Option; )  
46445 001 LEC, 16:00-17:15 TTh, Bruininks Hall 432B, In Person Term Based; Sharon Sawyer; 3 cr.  
48821 002 LEC, Completely Online; Sharon Sawyer; 3 cr.

**5262 Intermediate Statistical Methods**

(Student Option; Prereq: 3264 or 5261 or equiv)  
54139 001 LEC, Completely Online; Elizabeth Fry; 3 cr.

**5271 Becoming a Teacher of Statistics**

(Student Option; Prereq: 5261 or equiv)  
67611 001 LEC, 16:40-19:20 W, Appleby Hall 223, In Person Term Based; Robert delMas; 3 cr.

**5272 Statistics Teaching Internship**

(S-N only; Prereq: Grad student, instr consent)  
53510 001 FWK, In Person Term Based; Lori Boucher; 1-3 cr.

**5400 Special Topics in Counseling Psychology**

(Student Option; )  
68375 002 LEC, 14:30-16:25 T, Burton Hall 123, In Person Term Based; Craig Harding; 1-4 cr.  
60460 001 LEC, 10:10-14:20 F, Burton Hall 120, In Person Term Based; Sherri Turner; 1-4 cr.

**5421 Leadership and Administration of Student Affairs**

(Student Option; )  
58592 001 LEC, In Person Term Based; 3 cr.

**5432 Foundations of Individual/Organizational Career Development**

(Student Option; )  
55581 001 DIS, 16:40-19:20 M, Smith Hall 111, In Person Term Based; Louis Quast; 3 cr.

**5435 Introduction to School Counseling**

(A-F only; Prereq: CSPP grad student in school counselor prog or instr consent)  
48754 001 LEC, 16:40-19:20 T, Smith Hall 121, In Person Term Based; Marguerite Ohtman; 3-6 cr.

**5451 College Students Today**

(Student Option; )  
56469 002 DIS, In Person Term Based; 3 cr.

**5604 Transition From School to Work and Community Living for Persons With Special Needs**

(Student Option; )  
46230 001 LEC, 16:40-19:20 M, Folwell Hall 107, In Person Term Based; ; 3 cr.

**5605 Collaborative Practices for the Special Educator**

(A-F only; )  
60458 001 LEC, 16:40-19:20 T, Appleby Hall 226, In Person Term Based; 3 cr.

**5611W Research-based Practices in Academic and Behavior Disabilities**

(A-F only; WI)  
60936 204 LEC, In Person Term Based; 3 cr.

**5613 Foundations of Special Education I**

(A-F or Audit; DSJ)  
49619 002 LEC, 13:00-14:15 TTh, Smith Hall 121, In Person Term Based; ; 3 cr.  
46231 001 LEC, 13:00-14:15 TTh, Burton Hall 123, In Person Term Based; Becca Pierce; 3 cr.

**5614 Assessment and Due Process in Special Education**

(A-F or Audit; Prereq: 5613 or equiv or instr consent)  
46222 001 LEC, 16:40-20:10 W, Folwell Hall 106, In Person Term Based; Rose Vukovic; 3 cr.

**5616 Classroom Management and Behavior Analytic Problem Solving**

(Student Option; )

56446 003 LEC, 16:40-19:20 M, Appleby Hall 223, In Person Term Based; ; 3 cr.

51576 001 LEC, 14:30-15:45 TTh, Murphy Hall 228, In Person Term Based; ; 3 cr.  
48818 002 LEC, 14:30-15:45 TTh, Peik Hall 165, In Person Term Based; ; 3 cr.

**5617 Academic and Social Interventions for Students with Mild to Moderate Disabilities**

(A-F only; Prereq: EPsy 5611 and 5613 or instr consent)  
58555 001 LEC, 16:40-19:20 Th, Rapson Hall 13, In Person Term Based; Kathy Seifert; 3 cr.

**5618 Specialized Interventions for Students With Mild/Moderate Disabilities in Reading & Written Language**

(A-F or Audit; )  
53838 001 DIS, 16:40-19:20 Th, Burton Hall 123, In Person Term Based; Becca Pierce; 3 cr.

**5631 Module 1: Introduction to Augmentative and Alternative Communication**

(A-F only; )  
58557 001 LEC, Primarily Online; Mary Farquhar; 1 cr.

**5634 Module 4: Assistive technology with Deaf/Hard of Hearing Students**

(A-F only; Prereq: Special Education licensure student or instr consent)  
59460 001 LEC, Completely Online; ; 2 cr.

**5647 Aural and Speech Programming for Persons Who Are Deaf/Hard of Hearing**

(Student Option; )  
58560 001 LEC, 16:00-18:10 T, Room TBA, In Person Term Based; ; 3 cr.

**5651 Evident-Based Practices in Deaf Education**

(A-F only; )  
58556 001 LEC, In Person Term Based; ; 2 cr.

**5656 Advanced Issues in Emotional Behavior Disorders**

(A-F or Audit; )  
60937 205 LEC, In Person Term Based; 3 cr.

**5663 Assessment and Intervention for Individuals with Autism Spectrum Disorders**

(A-F only; Prereq: 5661, Special Ed grad or licensure student or instr consent)  
60465 001 LEC, 16:40-19:20 Th, Folwell Hall 118, In Person Term Based; Veronica Fleury; 3 cr.

**5681 Education of Preschool Children With Disabilities: Methods and Materials**

(A-F only; Prereq: [5616, 5625] or instr consent)  
46228 001 LEC, 16:40-19:20 M, Elliott Hall N647, In Person Term Based; LeAnne Johnson; 3 cr.

**5690 Experimental Teaching Seminar: ME/ Culminating Project**

(A-F only; Prereq: instr consent)  
58697 001 LEC, 16:40-18:20 W, Smith Hall 111, In Person Term Based; Becca Pierce; 2 cr.

**5701 Practicum: Field Experience in Special Education**

(S-N only; Prereq: instr consent)  
49319 001 FWK, In Person Term Based; Charissa O'Neill; 1-2 cr.

**5704 Practicum in Middle/Secondary Settings**

(S-N only; )  
58558 001 FWK, In Person Term Based; Charissa O'Neill; 1 cr.

**5705 Practicum in ECSE/Elementary Settings**

(S-N only; )  
58559 001 FWK, In Person Term Based; Charissa O'Neill; 1 cr.

**5720 Special Topics: Special Education**

(Student Option; )

58794 206 LEC, In Person Term Based; 1-4 cr.  
60938 207 LEC, In Person Term Based; 1-4 cr.

**5741 Student Teaching: Academic and Behavioral Strategist**

(S-N only; Prereq: Special education licensure program or instr consent)

60474 001 FWK, In Person Term Based; Becca Pierce; 3-6 cr.

**5742 Student Teaching: Autism Spectrum Disorders**

(S-N only; Prereq: Special Education licensure program or instr consent)

60483 001 FWK, In Person Term Based; Veronica Fleury; 6 cr.

**5751 Student Teaching: Deaf and Hard of Hearing**

(Student Option; Prereq: instr consent)

49854 001 FWK, In Person Term Based; ; 1-6 cr.

**5761 Student Teaching in Early Childhood Special Education Settings for Children Aged Three to Five Years**

(S-N only; Prereq: Licensure candidate in Early Childhood/Early Childhood Licensure Program, completion of all other licensure requirements for ECSE, instr consent; completion of Birth-3 student teaching should be completed after age 3-5 student teaching when possible)

55675 001 FWK, In Person Term Based; Charissa O'Neill; 3 cr.

**5762 Student Teaching in Early Childhood Special Education for Children Aged Birth to Three Years**

(S-N only; Prereq: Licensure candidate in Early Childhood/Early Childhood Licensure Program, completion of all other licensure requirements for ECSE, instr consent; completion of Birth-3 student teaching should be completed after age 3-5 student teaching when possible)

55676 001 FWK, In Person Term Based; LeAnne Johnson; 3 cr.

**5801 Assessment and Decision Making in School and Community Settings**

(A-F or Audit; )

58397 001 LEC, 17:05-19:55 T, Peik Hall 315, In Person Term Based; 3 cr.

**5851 Engaging Diverse Students and Families**

(Student Option; Prereq: Honors senior or grad student)

54881 001 DIS, 9:05-12:05 W, Appleby Hall 3, In Person Term Based; ; 3 cr.

**8116 Reading for Meaning: Cognitive Processes in the Comprehension of Texts**

(Student Option; )

60165 001 LEC, 13:00-15:45 Th, Peik Hall 155, In Person Term Based; Panayiota Kendeou; 3 cr.

**8117 Writing Empirical Paper and Research/Grant Proposals in Education and Psychology**

(Student Option; Prereq: instr consent)

60008 001 LEC, 14:30-17:10 W, Burton Hall 120, In Person Term Based; Panayiota Kendeou; 3 cr.

**8132 Personality Development and Socialization**

(Student Option; Prereq: Personality or child psych course)

46446 001 LEC, 16:40-19:20 M, Peik Hall 225, In Person Term Based; Caroline Burke; 3 cr.

**8157 Key Topics and Issues in Applying Social Psychology to Education**

(Student Option; )

68606 001 LEC, 14:30-17:00 T, Peik Hall 225, In Person Term Based; Geoffrey Maruyama; 3 cr.

**8216 Seminar: Research Processes in Psychological Foundations of Education**

(A-F or Audit; Prereq: [5216, admitted to doctoral program in psych foundations] or instr consent)

60009 001 LEC, In Person Term Based; 3 cr.

**8220 Special Topics: Seminar in Quantitative Methods**

(Student Option; )

67612 001 LEC, In Person Term Based; 1-6 cr.

**8222 Advanced Measurement: Theory and Application**

(Student Option; Prereq: [5221 or PSY 5862 or equiv], [8252 or equiv])

67613 001 LEC, In Person Term Based; Lori Boucher; 4 cr.  
67614 002 LAB, In Person Term Based; Sharon Sawyer; 4 cr.

**8225 Operational Measurement: Test Score Quality Assurance, Standard Setting, and Equating**

(Student Option; Prereq: 5221, [8252 or equiv])

67606 001 LEC, 9:05-11:55 M, Appleby Hall 227, In Person Term Based; Michael Rodriguez; 3 cr.

**8247 Advanced Interviewing and NVIVO**

(Student Option; Prereq: 5247 or qualitative course or instr consent)

53140 001 LEC, 16:40-19:30 M, Appleby Hall 128, In Person Term Based; Frances Lawrenz; 3 cr.

**8251 Statistical Methods in Education I**

(Student Option; Prereq: [EPSY 5261 or equiv] or undergrad statistics course)

68647 001 LEC, 11:15-12:30 TTh, Burton Hall 125, In Person Term Based; Meets With: 001 EPSY 8261; Sharon Sawyer; 3 cr.

**8252 Statistical Methods in Education II**

(Student Option; Prereq: [8251, 8261 or equiv])

57062 001 LEC, 9:45-11:00 MW, Wulling Hall 240, In Person Term Based; Meets With: 001 EPSY 8262; Andrew Zieffler; 3 cr.

68650 003 LEC, 16:40-19:20 T, Appleby Hall 204, In Person Term Based; Meets With: 003 EPSY 8262; Michael Harwell; 3 cr.

68649 002 LEC, 14:30-15:45 TTh, Peik Hall 375, In Person Term Based; Meets With: 002 EPSY 8262; Robert delMas; 3 cr.

**8261 Statistical Methods in Education I**

(Student Option; Prereq: 3264 or 5261 or equiv)

67615 001 LEC, 11:15-12:30 TTh, Burton Hall 125, In Person Term Based; Meets With: 001 EPSY 8251; Sharon Sawyer; 3 cr.

**8262 Statistical Methods in Education II**

(Student Option; Prereq: [EPSY 8251, 8261 or equiv])

53044 001 LEC, 9:45-11:00 MW, Wulling Hall 240, In Person Term Based; Meets With: 001 EPSY 8252; Andrew Zieffler; 3 cr.

68648 003 LEC, 16:40-19:20 T, Appleby Hall 204, In Person Term Based; Meets With: 003 EPSY 8252; Michael Harwell; 3 cr.

53512 002 LEC, 14:30-15:45 TTh, Peik Hall 375, In Person Term Based; Meets With: 002 EPSY 8252; Robert delMas; 3 cr.

**8266 Statistical Analysis Using Structural Equation Methods**

(Student Option; Prereq: 8265, [8252 or equiv])

55264 001 LEC, 14:30-15:45 TTh, Burton Hall 125, In Person Term Based; Nidhi Kohli; 3 cr.

**8267 Applied Multivariate Analysis**

(Student Option; Prereq: [8252 or equiv], familiarity with matrix algebra, knowledge of a computerized statistics package)

53525 001 LEC, 17:30-20:10 T, Appleby Hall 227, In Person Term Based; Ernest Davenport; 3 cr.

**8272 Nonparametric Statistics in Education**

(Student Option; Prereq: [8252 or equiv])

60010 001 LEC, In Person Term Based; 3 cr.

**8282 Statistical Analysis of Longitudinal Data**

(Student Option; Prereq: [8252 or equiv])

56610 001 LEC, In Person Term Based; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49116 001 IND, In Person Term Based; Lori Boucher; 1 cr.

**8403 Social/Cultural Contexts: Counseling and Skills**

(A-F or Audit; Prereq: Grad ed psy major with CSPP subprog or instr consent)

46250 001 DIS, 16:40-19:20 T, Burton Hall 123, In Person Term Based; Caroline Burke; 3 cr.

**8404 Group Counseling: Theory, Applications, and Skills**

(A-F or Audit; Prereq: Ed psy MA or PhD student with CSPP subprog or instr consent)

46253 001 LEC, 16:40-19:20 Th, Burton Hall 125, In Person Term Based; Craig Harding; 3 cr.

**8407 Assessing and Counseling Clients With Psychological Disorders**

(A-F only; Prereq: CSPP PhD or MA student or instr consent)

54250 001 LEC, 15:35-16:25 W, Burton Hall 125, In Person Term Based; Caroline Burke; 4 cr.

**8431 Master's Research Seminar: CSPP**

(A-F or Audit; Prereq: 5261 or equiv, 5221 or equiv, EPsy MA student with CSPP subprog or instr consent)

58532 001 LEC, 16:40-19:20 M, Peik Hall 315, In Person Term Based; Mary Farquhar; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49215 001 IND, In Person Term Based; Lori Boucher; 1 cr.

**8504 Counseling Practicum II**

(A-F or Audit; Prereq: 8503 or instr consent)

49621 002 FWK, 16:30-18:30 W, Room TBA, In Person Term Based; Marguerite Ohrtman; 1-4 cr.

46254 001 FWK, 8:30-10:30 Th, Room TBA, In Person Term Based; Thomas Skovholt; 1-4 cr.

**8509 Supervision Practicum: CSPP**

(Student Option; Prereq: [Ed psy PhD student with CSPP subprog] or instr consent)

58552 001 FWK, 10:30-12:00 Th, No Room Required, In Person Term Based; Thomas Skovholt; 1-2 cr.

**8512 Internship: CSPP**

(S-N only; Prereq: EdPsy PhD student with CSPP subprog)

46255 001 FWK, In Person Term Based; Sherri Turner; 1-12 cr.

**8522 Counseling Practicum: Advanced**

(A-F only; Prereq: [Grad EPsy PhD student with CSPP subprog] or instr consent; instructor consent required after 2 repeats)

68572 001 LEC, In Person Term Based; Thomas Skovholt; 3 cr.

**8600 Special Topics: Special Education Issues**

(Student Option; )

60459 001 LEC, In Person Term Based; 1-3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49304 001 IND, In Person Term Based; Lori Boucher; 1-6 cr.

**8694 Research in Special Education**

(Student Option; )

55411 001 LEC, 14:00-16:30 W, Appleby Hall 11, In Person Term Based; Scott McConnell; 3 cr.

**8702 Doctoral Core Seminar: Special Education II**

(A-F or Audit; Prereq: 8701 or instr consent)

46229 001 LEC, 14:30-17:20 M, Room TBA, In Person Term Based; ; 3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49402 001 IND, In Person Term Based; Lori Boucher; 1-18 cr.

**8800 Special Topics in School Psychology**

(Student Option; )

61181 001 LEC, 14:30-17:30 Th, Peik Hall 315, In Person Term Based; Faith Miller; 1-4 cr.

### 8812 Assessment in School Psychology II: Intellectual and Social-Emotional Domains

(A-F or Audit; Prereq: Grad ed psy major with school psy subprog or instr consent)

46423 001 LEC, 14:30-16:25 M, Peik Hall 165, In Person Term Based; Annie Hansen-Burke; 3 cr.

### 8813 Assessment Practicum in School Psychology

(A-F or Audit; Prereq: 8821, grad ed psy major with school psy subprog or instr consent, concurrent registration is required (or allowed) in 8811 or concurrent registration is required (or allowed) in 8812)

46422 001 FWK, 16:40-19:20 M, Rapson Hall 15, In Person Term Based; Annie Hansen-Burke; 2 cr.

### 8815 Individual and System Socio-Emotional Interventions

(A-F or Audit; Prereq: 8811, 8812, 8813)

50085 001 LEC, 14:30-17:30 W, Peik Hall 25, In Person Term Based; Faith Miller; 3 cr.

### 8817 School Psychological Consultation

(A-F or Audit; Prereq: EPSY 8811)

57844 001 LEC, 14:30-17:20 M, Appleby Hall 319, In Person Term Based; Karla Buerkle; 3 cr.

### 8818 Intervention Practicum in School Psychology

(A-F or Audit; Prereq: Grad ed psy major with school psy subprog, concurrent registration is required (or allowed) in 8815 or concurrent registration is required (or allowed) in 8816)

46424 001 FWK, 17:40-18:30 W, Peik Hall 165, In Person Term Based; Faith Miller; 1 cr.

### 8822 Research in School Psychology

(A-F only; Prereq: [8860, 8861, 5616] or equiv, [grad ed psy major with school psy subprog] or instr consent)

59969 001 LEC, 8:00- 9:55 M, Folwell Hall 119, In Person Term Based; Theodore Christ; 1-3 cr.

### 8823 Ethics and Professional Standards in School Psychology

(A-F or Audit; Prereq: 8821)

50811 001 LEC, 9:05-12:05 W, Peik Hall 155, In Person Term Based; Amanda Sullivan; 3 cr.

### 8841 Practicum: Instruction and Supervision in School Psychology

(A-F or Audit; Prereq: Grad ed psy major with school psy subprog or instr consent)

48605 001 FWK, 17:15-18:20 M, Peik Hall 335, In Person Term Based; Amanda Sullivan; 3 cr.

### 8842 Internship: School Psychological Services

(S-N or Audit; Prereq: Grad ed psy major with school psy subprog, instr consent)

48606 001 FWK, In Person Term Based; Annie Hansen-Burke; 1-10 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49525 001 IND, In Person Term Based; Lori Boucher; 1-24 cr.

### 8905 History and Systems of Psychology: Landmark Issues in Educational Psychology

(Student Option; Prereq: Ed psy PhD student)

46447 001 LEC, 14:30-17:25 M, Appleby Hall 303, In Person Term Based; Keisha Varma; 3 cr.

### 8993 Directed Study: Educational Psychology

(A-F or Audit; Prereq: instr consent)

46990 001 IND, In Person Term Based; Craig Harding; 1-10 cr.  
46993 004 IND, In Person Term Based; Sharon Sawyer; 1-10 cr.  
46991 002 IND, In Person Term Based; Craig Harding; 1-10 cr.  
46992 003 IND, In Person Term Based; Craig Harding; 1-10 cr.

### 8994 Research Problems: Educational Psychology

(A-F or Audit; Prereq: instr consent)

46986 001 IND, In Person Term Based; Craig Harding; 1-6 cr.  
46987 002 IND, In Person Term Based; Craig Harding; 1-6 cr.  
46988 003 IND, In Person Term Based; Craig Harding; 1-6 cr.  
46989 004 IND, In Person Term Based; Lori Boucher; 1-6 cr.

## Educational/Human Development (EDHD)

### 1909W Freshman Seminar, International Perspectives and Writing Intensive

(Student Option; IP,WI)

68730 001 LEC, 14:30-17:00 M, Folwell Hall 8, In Person Term Based; Laura Coffin Koch; 1-3 cr.

### 1920 CEHD Special Topics

(Student Option; )

55568 002 LEC, 18:00-20:00 Th, Peik Hall 25, 18:00-20:00 Th, Peik Hall 25, 18:00-20:00 Th, Peik Hall 25, In Person Term Based; Eva Boehm; 1-3 cr.  
55567 001 LEC, 18:30-20:30 W, Peik Hall 25, 18:30-20:30 W, Peik Hall 25, In Person Term Based; Eva Boehm; 1-3 cr.  
55569 003 LEC, 12:20-14:20 F, Peik Hall 46, 12:20-14:20 F, Peik Hall 46, 12:20-14:20 F, Peik Hall 46, 12:20-14:20 F, Peik Hall 46, In Person Term Based; Eva Boehm; 1-3 cr.

### 3002 Exploring the Teaching Profession II

(A-F only; Prereq: 3001, admission to DirecTrack to Teaching)

55006 001 LEC, 17:00-20:00 T, Bruininks Hall 420B, In Person Term Based; Karla Stone; 2 cr.

### 3100 International Topics for Undergraduates

(Student Option; )

56730 504 LEC, Study Abroad; Nathan Whittaker; 1-12 cr.

### 5004 Teaching Students With Special Needs in Inclusive Settings

(A-F or Audit; Prereq: Teacher preparation program in [CEHD or music education or agriculture education or DirecTrack] or instr consent; licensure students must take this course for a grade)

55432 002 LEC, 16:45-19:30 Th, Room TBA, In Person Term Based; Kathy Seifert; 2 cr.

## Electrical & Computer Eng (EE)

### 1001 Introduction to Electrical and Computer Engineering

(S-N or Audit; )

46863 001 LEC, 16:00-17:45 T, Smith Hall 231, In Person Term Based; Paul Imbertson; 1 cr.

### 1301 Introduction to Computing Systems

(Student Option; Prereq: concurrent registration is required (or allowed) in MATH 1271 or concurrent registration is required (or allowed) in MATH 1371)

50536 005 LAB, 14:30-17:30 W, Keller Hall 4-138, In Person Term Based; Charles Rennolet; 4 cr.  
48702 001 LEC, 14:30-15:45 TTh, Akerman Hall 209, In Person Term Based; Charles Rennolet; 4 cr.  
48703 002 LAB, 14:30-17:30 M, Keller Hall 4-138, In Person Term Based; Charles Rennolet; 4 cr.

### 2001 Introduction to Circuits and Electronics

(Student Option; Prereq: concurrent registration is required (or allowed) in PHYS 1302, concurrent registration is required (or allowed) in (MATH 2243 or MATH 2373 or MATH 2573))

46757 001 LEC, 9:05-9:55 MWF, Mechanical Engineering 212, In Person Term Based; ; 3 cr.  
46758 003 DIS, 15:35-16:25 W, Bruininks Hall 117, In Person Term Based; Bethanie Stadler; 3 cr.  
46759 005 DIS, 13:25-14:15 Th, Akerman Hall 327, In Person Term Based; ; 3 cr.

### 2002 Introductory Circuits and Electronics Laboratory

(Student Option; Prereq: 2001 or concurrent registration is required (or allowed) in 2001)

46862 005 LAB, 10:10-12:05 T, Keller Hall 3-136, In Person Term Based; Bethanie Stadler; 1 cr.  
50534 006 LAB, 13:25-15:20 T, Keller Hall 3-136, In Person Term Based; Bethanie Stadler; 1 cr.  
46860 002 LAB, 13:25-15:20 M, Keller Hall 3-136, In Person Term Based; Bethanie Stadler; 1 cr.

46861 003 LAB, 15:35-17:30 M, Keller Hall 3-136, In Person Term Based; Bethanie Stadler; 1 cr.

### 2006 Introductory Circuits Laboratory

(Student Option; )

54129 001 LAB, In Person Term Based; Bethanie Stadler; 0.5 cr.

### 2011 Linear Systems, Circuits, and Electronics

(Student Option; Prereq: 2001)

46760 001 LEC, 12:20-13:10 MWF, Amundson Hall B75, In Person Term Based; ; 3 cr.  
46761 002 DIS, 11:15-12:05 M, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
46762 003 DIS, 13:25-14:15 M, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
46763 005 DIS, 12:20-13:10 T, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
46764 006 DIS, 14:30-15:20 T, Keller Hall 3-170, In Person Term Based; ; 3 cr.

### 2301 Introduction to Digital System Design

(Student Option; Prereq: MATH 1272 or MATH 1372 or MATH 1572)

55585 002 DIS, 11:15-12:05 T, Keller Hall 4-138, In Person Term Based; Marc Riedel; 4 cr.  
46522 017 LAB, 11:15-13:10 Th, Keller Hall 2-178, In Person Term Based; Vladimir Cherkassky; 4 cr.  
46520 014 LAB, 11:15-13:10 W, Keller Hall 2-178, In Person Term Based; Vladimir Cherkassky; 4 cr.  
46521 015 LAB, 13:25-15:20 W, Keller Hall 2-178, In Person Term Based; Vladimir Cherkassky; 4 cr.  
50532 016 LAB, 15:35-17:30 Th, Keller Hall 2-178, In Person Term Based; Vladimir Cherkassky; 4 cr.  
55612 005 DIS, 13:25-14:15 T, Keller Hall 4-138, In Person Term Based; Vladimir Cherkassky; 4 cr.  
46519 001 LEC, 9:45-11:00 TTh, Smith Hall 331, In Person Term Based; ; 4 cr.

### 2361 Introduction to Microcontrollers

(Student Option; Prereq: 2301, [1301 or CSCI 1113 or CSCI 1901])

55588 004 DIS, 13:25-14:15 Th, Keller Hall 4-138, In Person Term Based; Gerald Sobelman; 4 cr.  
55589 005 DIS, 14:30-15:20 Th, Keller Hall 4-138, In Person Term Based; John Sartori; 4 cr.  
55587 003 DIS, 12:20-13:10 Th, Keller Hall 4-138, In Person Term Based; Kia Bazargan; 4 cr.  
51747 024 LAB, 10:10-12:05 W, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
51748 025 LAB, 14:30-16:25 W, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
55586 002 DIS, 11:15-12:05 Th, Keller Hall 4-138, In Person Term Based; Gerald Sobelman; 4 cr.  
46599 001 LEC, 9:45-11:00 TTh, Amundson Hall B75, In Person Term Based; Kia Bazargan; 4 cr.  
50531 023 LAB, 8:00-9:55 W, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
48609 017 LAB, 8:00-9:55 M, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
48611 018 LAB, 10:10-12:05 M, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
50530 020 LAB, 11:15-13:10 T, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
48610 021 LAB, 13:25-15:20 T, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
48612 019 LAB, 14:30-16:25 M, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.  
49687 022 LAB, 15:35-17:30 T, Keller Hall 2-182, In Person Term Based; Kia Bazargan; 4 cr.

### 3005 Fundamentals of Electrical Engineering

(Student Option; Prereq: Math 2243, Phys 1302; not for EE majors)

46575 001 LEC, 9:05-9:55 MTWF, Fraser Hall 101, In Person Term Based; Faisal Kaleem; 4 cr.

### 3006 Fundamentals of Electrical Engineering Laboratory

(Student Option; Prereq: Concurrent enrollment in 3005 is allowed but not required)

68582 010 LAB, 14:30-16:25 F, Keller Hall 3-136, In Person Term Based; 1 cr.  
53939 011 LAB, 15:35-17:30 T, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
46576 004 LAB, 8:00-9:55 Th, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
46580 008 LAB, 10:10-12:05 F, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
46577 005 LAB, 10:10-12:05 Th, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
46581 009 LAB, 12:20-14:15 F, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.

46578 006 LAB, 13:25-15:20 Th, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
 46579 007 LAB, 15:35-17:30 Th, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.  
 50529 002 LAB, 13:25-15:20 W, Keller Hall 3-136, In Person Term Based; Faisal Kaleem; 1 cr.

### 3015 Signals and Systems

(Student Option; Prereq: [2011, CSE] or dept consent)  
 46766 002 DIS, 12:20-13:10 W, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
 46767 003 DIS, 13:25-14:15 W, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
 46765 001 LEC, 10:10-11:00 MWF, Keller Hall 3-115, In Person Term Based; Abolghassem Mahmoodi; 3 cr.  
 50528 004 DIS, 14:30-15:20 Th, Keller Hall 3-170, In Person Term Based; ; 3 cr.

### 3025 Statistical Methods in Electrical and Computer Engineering

(Student Option; Prereq: [3015, CSE] or instr approval)  
 46529 002 DIS, 12:20-13:10 M, Keller Hall 3-170, In Person Term Based; Arya Mazumdar; 3 cr.  
 60668 882 DIS, 13:25-14:15 T, Room TBA, Primarily Online; Keshab Parhi; 3 cr.  
 60670 886 DIS, 13:25-14:15 T, Rochester Campus Room TBA, Primarily Online; Keshab Parhi; 3 cr.  
 57815 006 DIS, 13:25-14:15 T, Keller Hall 3-170, In Person Term Based; Keshab Parhi; 3 cr.  
 60665 881 LEC, 10:10-11:00 MWF, Room TBA, Primarily Online; Nikolaos Sidiropoulos; 3 cr.  
 60667 885 LEC, 10:10-11:00 MWF, Rochester Campus Room TBA, Primarily Online; Nikolaos Sidiropoulos; 3 cr.  
 60669 884 DIS, 13:25-14:15 T, Room TBA, Primarily Online; Keshab Parhi; 3 cr.  
 60666 883 LEC, 10:10-11:00 MWF, Room TBA, Primarily Online; Nikolaos Sidiropoulos; 3 cr.  
 46528 001 LEC, 9:45-11:00 TTh, Smith Hall 231, In Person Term Based; ; 3 cr.  
 46530 004 DIS, 11:15-12:05 Th, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
 46531 005 DIS, 11:15-12:05 T, Keller Hall 3-170, In Person Term Based; William Robbins; 3 cr.

### 3101 Circuits and Electronics Laboratory I

(Student Option; Prereq: [2002, [3115 or concurrent registration is required (or allowed) in 3115], CSE] or dept consent)  
 68588 003 LAB, 16:40-19:20 M, Keller Hall 3-144, In Person Term Based; 2 cr.  
 57816 004 LAB, 8:00-11:00 T, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 46772 005 LAB, 11:15-14:15 T, Keller Hall 3-144, In Person Term Based; ; 2 cr.  
 48811 006 LAB, 14:30-17:30 T, Keller Hall 3-144, In Person Term Based; ; 2 cr.  
 46771 001 LAB, 11:15-14:15 M, Keller Hall 3-144, In Person Term Based; Larry Kinney; 2 cr.

### 3102 Circuits and Electronics Laboratory II

(Student Option; Prereq: [3101 or CSE or dept consent], attendance first day of class.)  
 60429 001 DIS, 10:10-11:00 T, Mechanical Engineering 18, In Person Term Based; Faisal Kaleem; 2 cr.  
 49768 002 LAB, 11:15-13:10 W, Keller Hall 3-144, In Person Term Based; Faisal Kaleem; 2 cr.  
 46774 005 LAB, 8:00-9:55 Th, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 52565 009 LAB, 11:15-13:10 F, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 46775 006 LAB, 11:15-13:10 Th, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 46776 007 LAB, 14:30-16:25 Th, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 49769 003 LAB, 14:30-16:25 W, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 46777 008 LAB, 17:45-19:40 Th, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.  
 46773 004 LAB, 17:45-19:40 W, Keller Hall 3-144, In Person Term Based; William Robbins; 2 cr.

### 3115 Analog Electronics

(Student Option; Prereq: [3015 or concurrent registration is required (or allowed) in 3015, CSE] or dept consent)  
 59457 004 DIS, 11:15-12:05 F, Keller Hall 3-170, In Person Term Based; Ramesh Harjani; 3 cr.  
 46778 001 LEC, 15:35-16:25 MWF, Smith Hall 231, In Person Term Based; ; 3 cr.  
 48964 005 DIS, 12:20-13:10 F, Keller Hall 3-170, In Person Term Based; ; 3 cr.  
 46779 003 DIS, 12:20-13:10 Th, Keller Hall 3-170, In Person Term Based; William Robbins; 3 cr.

### 3161 Semiconductor Devices

(Student Option; Prereq: Upper div CSE, 2011, Phys 1302, Phys 2303 or Chem 1022)

68591 881 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; 3 cr.  
 68592 883 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; 3 cr.  
 68593 885 LEC, 8:15-9:30 TTh, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 46836 002 DIS, 13:25-14:15 T, Vincent Hall 364, In Person Term Based; ; 3 cr.  
 50881 005 DIS, 14:30-15:20 W, Vincent Hall 364, In Person Term Based; Philip Cohen; 3 cr.  
 46835 001 LEC, 8:15-9:30 TTh, Keller Hall 3-230, In Person Term Based; Sang-Hyun Oh; 3 cr.  
 50527 004 DIS, 15:35-16:25 T, Vincent Hall 364, In Person Term Based; Sang-Hyun Oh; 3 cr.  
 46837 003 DIS, 14:30-15:20 T, Bruininks Hall 420A, In Person Term Based; ; 3 cr.

### 3601 Transmission Lines, Fields, and Waves

(Student Option; Prereq: [2011, [Math 2243 or Math 2373 or Math 2573], [Phys 1302 or Phys 1402], CSE] or dept consent)  
 68594 881 LEC, 9:05-9:55 MWF, Room TBA, Primarily Online; 3 cr.  
 46768 001 LEC, 9:05-9:55 MWF, Moos Health Sci Tower 3-110, In Person Term Based; Anand Gopinath; 3 cr.  
 50882 006 DIS, 12:20-13:10 T, Bruininks Hall 144, In Person Term Based; Anand Gopinath; 3 cr.  
 46769 004 DIS, 14:30-15:20 M, Bruininks Hall 144, In Person Term Based; Anand Gopinath; 3 cr.  
 46770 005 DIS, 11:15-12:05 T, Bruininks Hall 123, In Person Term Based; Randall Victoria; 3 cr.

### 4111 Advanced Analog Electronics Design

(Student Option; Prereq: 3015, 3115)  
 68597 881 LEC, 12:20-13:10 MWF, Room TBA, Primarily Online; 4 cr.  
 68598 883 LEC, 12:20-13:10 MWF, Room TBA, Primarily Online; 4 cr.  
 68599 885 LEC, 12:20-13:10 MWF, Rochester Campus Room TBA, Primarily Online; 4 cr.  
 68596 006 LAB, 8:00-9:55 W, Keller Hall 1-200, In Person Term Based; 4 cr.  
 46780 001 LEC, 12:20-13:10 MWF, Keller Hall 3-230, In Person Term Based; Ted Higman; 4 cr.  
 50526 002 LAB, 13:25-15:20 M, Keller Hall 1-200, In Person Term Based; Ted Higman; 4 cr.  
 55650 003 LAB, 15:35-17:30 M, Keller Hall 1-200, In Person Term Based; William Robbins; 4 cr.

### 4161W Energy Conversion and Storage

(Student Option; Prereq: 3161 or instr consent(WI))  
 55648 001 LEC, 11:15-12:30 TTh, Bruininks Hall 330, In Person Term Based; Philip Cohen; 3 cr.

### 4163 Energy Conversion and Storage Laboratory

(Student Option; Prereq: concurrent registration is required (or allowed) in 4161W)  
 59806 003 LAB, 8:00-11:00 F, Keller Hall 2-164, In Person Term Based; Philip Cohen; 1 cr.  
 56995 002 LAB, 8:00-11:00 Th, Keller Hall 2-164, In Person Term Based; Philip Cohen; 1 cr.  
 56994 001 LAB, 8:00-11:00 T, Keller Hall 2-164, In Person Term Based; Philip Cohen; 1 cr.

### 4233 State Space Control System Design

(Student Option; Prereq: [3015, upper div CSE] or instr consent)  
 68601 881 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; 3 cr.  
 68602 883 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; 3 cr.  
 68603 885 LEC, 16:00-17:15 TTh, Rochester Campus Room TBA, Primarily Online; 3 cr.  
 46790 001 LEC, 16:00-17:15 TTh, Bruininks Hall 412, In Person Term Based; murti salapaka; 3 cr.

### 4237 State Space Control Laboratory

(Student Option; Prereq: 4233 or concurrent registration is required (or allowed) in 4233; no cr for [EE or CompE] grad students)  
 59807 001 LAB, 8:00-9:55 W, Keller Hall 2-188, In Person Term Based; murti salapaka; 1 cr.  
 55142 002 LAB, 8:00-9:55 T, Keller Hall 2-188, In Person Term Based; murti salapaka; 1 cr.  
 55143 004 LAB, 12:20-14:15 F, Keller Hall 2-188, In Person Term Based; murti salapaka; 1 cr.  
 58783 003 LAB, 12:20-14:15 W, Keller Hall 2-188, In Person Term Based; murti salapaka; 1 cr.

### 4341 Embedded System Design

(Student Option; Prereq: 2301, 2361, upper div CSE)

46819 001 LEC, 11:15-12:05 MWF, Keller Hall 3-230, In Person Term Based; Thomas Posbergh; 4 cr.  
 46823 008 LAB, 8:00-9:55 Th, Keller Hall 1-202, In Person Term Based; Thomas Posbergh; 4 cr.  
 46821 005 LAB, 10:10-12:05 T, Keller Hall 1-202, In Person Term Based; Thomas Posbergh; 4 cr.  
 50525 007 LAB, 12:20-14:15 W, Keller Hall 1-202, In Person Term Based; Thomas Posbergh; 4 cr.  
 46822 006 LAB, 12:20-14:15 T, Keller Hall 1-202, In Person Term Based; Thomas Posbergh; 4 cr.  
 46820 003 LAB, 14:30-16:25 M, Keller Hall 1-202, In Person Term Based; Thomas Posbergh; 4 cr.  
 55651 009 LAB, 10:10-12:05 Th, Keller Hall 1-202, In Person Term Based; William Robbins; 4 cr.

### 4363 Computer Architecture and Machine Organization

(Student Option; Prereq: 2361)  
 51191 001 LEC, 9:45-11:00 TTh, Akerman Hall 319, In Person Term Based; Meets With: 001 CSCI4203; Gerald Sobelman; 4 cr.

### 4607 Wireless Hardware System Design

(Student Option; Prereq: [3015, 3115, 3601, CSE student] or dept consent)  
 54605 001 LEC, 13:00-14:15 TTh, Keller Hall 3-230, In Person Term Based; murti salapaka; 3 cr.

### 4701 Electric Drives

(Student Option; Prereq: 3015)  
 54606 001 LEC, 14:30-15:45 WF, Bruininks Hall 412, In Person Term Based; Paul Imbertson; 3 cr.

### 4703 Electric Drives Laboratory

(Student Option; Prereq: 4701 or concurrent registration is required (or allowed) in 4701)  
 60434 006 LAB, 8:00-9:55 F, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 54662 005 LAB, 10:10-12:05 Th, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 54660 003 LAB, 10:10-12:05 W, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 53773 002 LAB, 10:10-12:05 T, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 54663 007 LAB, 12:20-14:15 F, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 54661 004 LAB, 16:00-18:00 W, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.  
 53351 001 LAB, 10:10-12:05 M, Keller Hall 3-146, In Person Term Based; Ned Mohan; 1 cr.

### 4951W Senior Design Project

(Student Option; Prereq: 3015, 3115, 3102, attendance first day of class(WI))  
 46857 001 LEC, 14:30-15:45 TTh, Bruininks Hall 412, In Person Term Based; Paul Imbertson; 4 cr.

### 4970 Directed Study

(Student Option; Prereq: Cr ar [may be repeated for cr]; dept consent)  
 51794 044 IND, In Person Term Based; William Robbins; 1-3 cr.  
 51783 033 IND, In Person Term Based; Zhi-Quan Luo; 1-3 cr.  
 51786 036 IND, In Person Term Based; Jaekyun Moon; 1-3 cr.  
 53412 055 IND, In Person Term Based; Robert Sainati; 1-3 cr.  
 53417 060 IND, In Person Term Based; Robert Sainati; 1-3 cr.  
 51755 005 IND, In Person Term Based; ; 1-3 cr.  
 51760 010 IND, In Person Term Based; ; 1-3 cr.  
 51767 017 IND, In Person Term Based; ; 1-3 cr.  
 51770 020 IND, In Person Term Based; ; 1-3 cr.  
 51775 025 IND, In Person Term Based; ; 1-3 cr.  
 51780 030 IND, In Person Term Based; ; 1-3 cr.  
 51790 040 IND, In Person Term Based; ; 1-3 cr.  
 51791 041 IND, In Person Term Based; ; 1-3 cr.  
 53418 061 IND, In Person Term Based; ; 1-3 cr.  
 51768 018 IND, In Person Term Based; Allison Hubel; 1-3 cr.  
 51763 013 IND, In Person Term Based; Anand Gopinath; 1-3 cr.  
 51803 053 IND, In Person Term Based; Bethanie Stadler; 1-3 cr.  
 51765 015 IND, In Person Term Based; Bin He; 1-3 cr.  
 53416 059 IND, In Person Term Based; Bruce Wollenberg; 1-3 cr.  
 51795 045 IND, In Person Term Based; Charles Rennolet; 1-3 cr.  
 51782 032 IND, In Person Term Based; David Lilja; 1-3 cr.  
 51759 009 IND, In Person Term Based; Douglas Ernie; 1-3 cr.  
 51758 008 IND, In Person Term Based; Emad Ebbini; 1-3 cr.  
 51785 035 IND, In Person Term Based; Farnaz Mounes-Toussi; 1-3 cr.

51762 012 IND, In Person Term Based; Georgios Giannakis; 1-3 cr.  
 51802 052 IND, In Person Term Based; Gerald Sobelman; 1-3 cr.  
 51788 038 IND, In Person Term Based; Hal Ottesen; 1-3 cr.  
 51797 047 IND, In Person Term Based; Jaijeet Roychowdhury; 1-3 cr.  
 53194 054 IND, In Person Term Based; Joseph Talghader; 1-3 cr.  
 51779 029 IND, In Person Term Based; Larry Kinney; 1-3 cr.  
 51793 043 IND, In Person Term Based; Marc Riedel; 1-3 cr.  
 46858 001 IND, In Person Term Based; Massoud Amin; 1-3 cr.  
 51773 023 IND, In Person Term Based; Mihailo Jovanovic; 1-3 cr.  
 51774 024 IND, In Person Term Based; Mostafa Kaveh; 1-3 cr.  
 51784 034 IND, In Person Term Based; Ned Mohan; 1-3 cr.  
 51798 048 IND, In Person Term Based; P Ruden; 1-3 cr.  
 51756 006 IND, In Person Term Based; Philip Cohen; 1-3 cr.  
 51764 014 IND, In Person Term Based; Ramesh Harjani; 1-3 cr.  
 51757 007 IND, In Person Term Based; Rhonda Franklin; 1-3 cr.  
 51799 049 IND, In Person Term Based; Sachin Sapatnekar; 1-3 cr.  
 51787 037 IND, In Person Term Based; Sang-Hyun Oh; 1-3 cr.  
 51753 003 IND, In Person Term Based; Stephen Campbell; 1-3 cr.  
 51796 046 IND, In Person Term Based; Stergios Roumeliotis; 1-3 cr.  
 51766 016 IND, In Person Term Based; Ted Higman; 1-3 cr.  
 51792 042 IND, In Person Term Based; Thomas Posbergh; 1-3 cr.  
 51761 011 IND, In Person Term Based; Tryphon Georgiou; 1-3 cr.  
 51754 004 IND, In Person Term Based; Vladimir Cherkassky; 1-3 cr.  
 51800 050 IND, In Person Term Based; murti salapaka; 1-3 cr.  
 51777 027 IND, In Person Term Based; ; 1-3 cr.  
 53419 062 IND, In Person Term Based; ; 1-3 cr.  
 53420 063 IND, In Person Term Based; ; 1-3 cr.  
 53421 064 IND, In Person Term Based; ; 1-3 cr.  
 53422 065 IND, In Person Term Based; ; 1-3 cr.  
 53413 056 IND, In Person Term Based; Ahmed Tewfik; 1-3 cr.  
 51778 028 IND, In Person Term Based; Chris Kim; 1-3 cr.  
 51801 051 IND, In Person Term Based; Guillermo Sapiro; 1-3 cr.  
 51771 021 IND, In Person Term Based; Heinrich Jacobs; 1-3 cr.  
 51781 031 IND, In Person Term Based; James Leger; 1-3 cr.  
 53415 058 IND, In Person Term Based; Jianping Wang; 1-3 cr.  
 51776 026 IND, In Person Term Based; John Kieffer; 1-3 cr.  
 51789 039 IND, In Person Term Based; Keshab Parhi; 1-3 cr.  
 51752 002 IND, In Person Term Based; Kia Bazargan; 1-3 cr.  
 51772 022 IND, In Person Term Based; Nihar Jindal; 1-3 cr.  
 51769 019 IND, In Person Term Based; Paul Imbertson; 1-3 cr.  
 53414 057 IND, In Person Term Based; Randall Victoria; 1-3 cr.

#### 4982V Senior Honors Project II

(Student Option; Prereq: 4981WI)

46859 001 IND, 14:30-15:45 TTh, Keller Hall 4-178A, In Person Term Based; James Leger; 2 cr.

#### 5041 Industrial Assignment for Graduate Students

(S-N only; Prereq: Consent of Advisor and Office of the DGS)

60854 001 FWK, In Person Term Based; Linda Jagerson; 1 cr.

#### 5141 Introduction to Microsystem Technology

(Student Option; Prereq: [3161, 3601, CSE grad student] or dept consent)

60437 003 LAB, 12:20-14:15 Th, Keller Hall 1-165, In Person Term Based; 4 cr.

60436 002 LAB, 12:20-14:15 T, Keller Hall 1-165, In Person Term Based; 4 cr.

60435 001 LEC, 11:15-12:05 MWF, Keller Hall 3-115, In Person Term Based; 4 cr.

#### 5164 Semiconductor Properties and Devices II

(Student Option; Prereq: 5163 or instr consent)

46781 001 LEC, 16:00-17:15 TTh, Keller Hall 3-111, In Person Term Based; James Leger; 3 cr.

51011 881 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; James Leger; 3 cr.

51488 883 LEC, 16:00-17:15 TTh, Room TBA, Primarily Online; James Leger; 3 cr.

51012 885 LEC, 16:00-17:15 TTh, Rochester Campus Room TBA, Primarily Online; James Leger; 3 cr.

#### 5235 Robust Control System Design

(Student Option; Prereq: CSE grad, 3015, 5231 or instr consent)

51686 881 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; Peter Seiler Jr; 3 cr.

51688 885 LEC, 8:15-9:30 TTh, Rochester Campus Room TBA, Primarily Online; Peter Seiler Jr; 3 cr.

49734 001 LEC, 8:15-9:30 TTh, Keller Hall 3-115, In Person Term Based; Meets With: 001 AEM 8421; Lisa Walt; 3 cr.

51687 883 LEC, 8:15-9:30 TTh, Room TBA, Primarily Online; Peter Seiler Jr; 3 cr.

#### 5302 VLSI Design Automation II

(Student Option; Prereq: [5301, CSE grad student] or dept consent)

48815 001 LEC, 9:45-11:00 TTh, Keller Hall 3-125, In Person Term Based; Sachin Sapatnekar; 3 cr.

51013 881 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Sachin Sapatnekar; 3 cr.

51479 883 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Sachin Sapatnekar; 3 cr.

51014 885 LEC, 9:45-11:00 TTh, Rochester Campus Room TBA, Primarily Online; Sachin Sapatnekar; 3 cr.

#### 5324 VLSI Design II

(Student Option; Prereq: [5323, CSE grad student] or dept consent)

46600 001 LEC, 13:00-14:15 TTh, Keller Hall 3-111, In Person Term Based; Chris Kim; 3 cr.

51492 883 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; Chris Kim; 3 cr.

51015 881 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; Chris Kim; 3 cr.

51016 885 LEC, 13:00-14:15 TTh, Rochester Campus Room TBA, Primarily Online; Chris Kim; 3 cr.

#### 5327 VLSI Design Laboratory

(Student Option; Prereq: [4301, [5323 or concurrent registration is required (or allowed) in 5323], CSE grad student] or dept consent)

68608 004 LAB, 13:25-15:20 F, Keller Hall 1-200, In Person Term Based; 3 cr.

49944 003 LAB, 15:35-17:30 F, Keller Hall 1-200, In Person Term Based; Gerald Sobelman; 3 cr.

49690 002 LAB, 15:35-17:30 Th, Keller Hall 1-200, In Person Term Based; Gerald Sobelman; 3 cr.

49689 001 LEC, 15:35-17:30 T, Keller Hall 3-230, In Person Term Based; Gerald Sobelman; 3 cr.

#### 5329 VLSI Digital Signal Processing Systems

(Student Option; Prereq: [[5323 or concurrent registration is required (or allowed) in 5323], CSE grad student] or dept consent)

57444 001 LEC, 11:15-12:30 MW, Keller Hall 3-111, In Person Term Based; Keshab Parhi; 3 cr.

#### 5393 Circuits, Computation, and Biology

(Student Option; Prereq: MATH 2263 or dept consent)

57952 001 LEC, 14:30-15:45 WF, Keller Hall 3-230, In Person Term Based; Marc Riedel; 3 cr.

57988 881 LEC, 14:30-15:45 WF, Room TBA, Primarily Online; Marc Riedel; 3 cr.

57989 883 LEC, 14:30-15:45 WF, Room TBA, Primarily Online; Marc Riedel; 3 cr.

57990 885 LEC, 14:30-15:45 WF, Rochester Campus Room TBA, Primarily Online; Marc Riedel; 3 cr.

#### 5542 Adaptive Digital Signal Processing

(Student Option; Prereq: [4541, 5531, CSE grad student] or dept consent)

60484 881 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; 3 cr.

60486 885 LEC, 9:45-11:00 TTh, Rochester Campus Room TBA, Primarily Online; 3 cr.

60438 001 LEC, 9:45-11:00 TTh, Keller Hall 3-115, In Person Term Based; 3 cr.

60485 883 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; 3 cr.

#### 5545 Digital Signal Processing Design

(Student Option; Prereq: [4541, CSE grad student] or dept consent)

60440 002 LAB, In Person Term Based; 3 cr.

60441 003 LAB, In Person Term Based; 3 cr.

60439 001 LEC, 9:05-9:55 MW, Bruininks Hall 117, In Person Term Based; 3 cr.

#### 5561 Image Processing and Applications

(Student Option; Prereq: [4541, 5581, CSE grad student] or instr consent)

53871 771 LEC, 16:00-18:00 TTh, Room TBA, In Person Term Based; Hal Ottesen; 3 cr.

#### 5583 Error Control Coding

(Student Option; Prereq: [[3025, Math 2373] or equiv], [CSE grad student or dept consent])

60487 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; 3 cr.

60442 001 LEC, 11:15-12:30 TTh, Keller Hall 3-125, In Person Term Based; 3 cr.

60489 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; 3 cr.

60488 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; 3 cr.

#### 5601 Introduction to RF/Microwave Engineering

(Student Option; Prereq: [3601, CSE grad student] or dept consent)

50524 001 LEC, 14:30-15:45 TTh, Keller Hall 3-125, In Person Term Based; Rhonda Franklin; 3 cr.

51017 881 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Rhonda Franklin; 3 cr.

51484 883 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Rhonda Franklin; 3 cr.

51018 885 LEC, 14:30-15:45 TTh, Rochester Campus Room TBA, Primarily Online; Rhonda Franklin; 3 cr.

#### 5611 Plasma-Aided Manufacturing

(A-F or Audit; Prereq: [[ME 3321, ME 3322] or equiv], [upper div CSE or grad student] or dept consent)

60443 001 LEC, 11:15-12:30 TTh, Akerman Hall 211, In Person Term Based; 4 cr.

#### 5613 RF/Microwave Circuit Design

Laboratory

(A-F only; Prereq: [[5601 or concurrent registration is required (or allowed) in 5601], CSE grad student] or dept consent)

48704 001 LEC, 13:25-14:15 W, Keller Hall 2-260, In Person Term Based; Rhonda Franklin; 2 cr.

48705 002 LAB, In Person Term Based; Rhonda Franklin; 2 cr.

#### 5621 Physical Optics

(Student Option; Prereq: [3015, CSE grad student] or dept consent)

48613 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 102, In Person Term Based; James Leger; 3 cr.

52494 881 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; James Leger; 3 cr.

52495 883 LEC, 13:00-14:15 TTh, Room TBA, Primarily Online; James Leger; 3 cr.

52496 885 LEC, 13:00-14:15 TTh, Rochester Campus Room TBA, Primarily Online; James Leger; 3 cr.

#### 5622 Physical Optics Laboratory

(Student Option; Prereq: [[5621 or concurrent registration is required (or allowed) in 5621], CSE grad student] or dept consent)

48615 001 LAB, 14:30-16:25 M, Keller Hall 2-158, In Person Term Based; James Leger; 1 cr.

#### 5721 Power Generation Operation and Control

(Student Option; Prereq: [4721, CSE grad student] or dept consent)

60490 881 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; Bruce Wollenberg; 3 cr.

60492 885 LEC, 16:00-17:15 MW, Rochester Campus Room TBA, In Person Term Based; Bruce Wollenberg; 3 cr.

58784 001 LEC, 16:00-17:15 MW, Mechanical Engineering 102, In Person Term Based; Bruce Wollenberg; 3 cr.

60491 883 LEC, 16:00-17:15 MW, Room TBA, Primarily Online; Bruce Wollenberg; 3 cr.

#### 5741 Advanced Power Electronics

(Student Option; Prereq: CSE grad student] or dept consent)

60444 001 LEC, 9:05-9:55 MWF, Mechanical Engineering 102, In Person Term Based; 3 cr.

60494 883 LEC, 9:05-9:55 MWF, Room TBA, Primarily Online; 3 cr.

60493 881 LEC, 9:05-9:55 MWF, Room TBA, Primarily Online; ; 3 cr.

60495 885 LEC, 9:05-9:55 MWF, Rochester Campus Room TBA, Primarily Online; ; 3 cr.

#### 5940 Special Topics in Electrical Engineering I

(Student Option; )

59803 005 LEC, In Person Term Based; 1-4 cr.

56621 003 LEC, 16:00-17:15 MW, Bruininks Hal 121, In Person Term Based; John Sartori; 1-4 cr.  
 68863 006 LEC, 11:15-12:30 MW, Bruininks Hall 420B, In Person Term Based; Keshab Parhi; 1-4 cr.  
 59591 002 LEC, 12:20-14:15 T, Ford Hall B60, In Person Term Based; Ned Mohan; 1-4 cr.  
 56620 001 LEC, 12:20-14:15 T, Civil Engineering Bldg 212, In Person Term Based; Pratap Mysore; 1-4 cr.  
 56620 001 LEC, 12:20-14:15 T, Civil Engineering Bldg 212, In Person Term Based; Pratap Mysore; 1-4 cr.  
 56620 001 LEC, 12:20-14:15 T, Civil Engineering Bldg 212, In Person Term Based; Pratap Mysore; 1-4 cr.  
 50121 004 LEC, 13:00-14:15 MW, Akerman Hall 227, In Person Term Based; Jianping Wang; 1-4 cr.

### 5950 Special Topics in Electrical Engineering II (Student Option; )

52572 881 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; ; 1-4 cr.  
 52573 883 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; ; 1-4 cr.  
 52574 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, In Person Term Based; ; 1-4 cr.  
 52563 771 LEC, 16:00-18:00 TTh, Rochester Campus Room TBA, In Person Term Based; Hal Ottesen; 1-4 cr.  
 46853 001 LEC, In Person Term Based; ; 1-4 cr.

### 5960 Special Topics in Electrical Engineering III (Student Option; )

53377 881 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; ; 1-4 cr.  
 53378 883 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; ; 1-4 cr.  
 53379 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, In Person Term Based; ; 1-4 cr.  
 53226 001 LEC, In Person Term Based; ; 1-4 cr.  
 46854 771 LEC, 16:00-18:00 TTh, Rochester Campus Room TBA, In Person Term Based; Hal Ottesen; 1-4 cr.

### 5990 Curricular Practical Training

(S-N or Audit; Prereq: Grad student, instr consent)

53434 061 FWK, In Person Term Based; ; 1-2 cr.  
 53432 059 FWK, In Person Term Based; Bruce Wollenberg; 1-2 cr.  
 53431 058 FWK, In Person Term Based; Jianping Wang; 1-2 cr.  
 52275 005 FWK, In Person Term Based; ; 1-2 cr.  
 52280 010 FWK, In Person Term Based; ; 1-2 cr.  
 52287 017 FWK, In Person Term Based; ; 1-2 cr.  
 52290 020 FWK, In Person Term Based; ; 1-2 cr.  
 52295 025 FWK, In Person Term Based; ; 1-2 cr.  
 52300 030 FWK, In Person Term Based; ; 1-2 cr.  
 52305 035 FWK, In Person Term Based; ; 1-2 cr.  
 52310 040 FWK, In Person Term Based; ; 1-2 cr.  
 52311 041 FWK, In Person Term Based; ; 1-2 cr.  
 52288 018 FWK, In Person Term Based; Allison Hubel; 1-2 cr.  
 52283 013 FWK, In Person Term Based; Anand Gopinath; 1-2 cr.  
 52323 053 FWK, In Person Term Based; Bethanie Stadler; 1-2 cr.  
 52285 015 FWK, In Person Term Based; Bin He; 1-2 cr.  
 52315 045 FWK, In Person Term Based; Charles Rennolet; 1-2 cr.  
 52302 032 FWK, In Person Term Based; David Lilja; 1-2 cr.  
 52279 009 FWK, In Person Term Based; Douglas Ernie; 1-2 cr.  
 52278 008 FWK, In Person Term Based; Emad Ebbini; 1-2 cr.  
 52282 012 FWK, In Person Term Based; Georgios Giannakis; 1-2 cr.  
 52322 052 FWK, In Person Term Based; Gerald Sobelman; 1-2 cr.  
 52308 038 FWK, In Person Term Based; Hal Ottesen; 1-2 cr.  
 52317 047 FWK, In Person Term Based; John Sartori; 1-2 cr.  
 52272 002 FWK, In Person Term Based; Kia Bazargan; 1-2 cr.  
 52299 029 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52313 043 FWK, In Person Term Based; Marc Riedel; 1-2 cr.  
 52293 023 FWK, In Person Term Based; Mihailo Jovanovic; 1-2 cr.  
 52304 034 FWK, In Person Term Based; Ned Mohan; 1-2 cr.  
 52318 048 FWK, In Person Term Based; P Ruden; 1-2 cr.  
 52276 006 FWK, In Person Term Based; Philip Cohen; 1-2 cr.  
 52284 014 FWK, In Person Term Based; Ramesh Harjani; 1-2 cr.  
 52277 007 FWK, In Person Term Based; Rhonda Franklin; 1-2 cr.  
 52319 049 FWK, In Person Term Based; Sachin Sapatnekar; 1-2 cr.  
 52307 037 FWK, In Person Term Based; Sang-Hyun Oh; 1-2 cr.  
 52273 003 FWK, In Person Term Based; Stephen Campbell; 1-2 cr.

52316 046 FWK, In Person Term Based; Stergios Roumeliotis; 1-2 cr.  
 52286 016 FWK, In Person Term Based; Ted Higman; 1-2 cr.  
 52312 042 FWK, In Person Term Based; Thomas Posbergh; 1-2 cr.  
 52281 011 FWK, In Person Term Based; Tryphon Georgiou; 1-2 cr.  
 52314 044 FWK, In Person Term Based; William Robbins; 1-2 cr.  
 52320 050 FWK, In Person Term Based; murti salapak; 1-2 cr.  
 53428 055 FWK, In Person Term Based; ; 1-2 cr.  
 53433 060 FWK, In Person Term Based; ; 1-2 cr.  
 53435 062 FWK, In Person Term Based; ; 1-2 cr.  
 53436 063 FWK, In Person Term Based; ; 1-2 cr.  
 53437 064 FWK, In Person Term Based; ; 1-2 cr.  
 53438 065 FWK, In Person Term Based; ; 1-2 cr.  
 53429 056 FWK, In Person Term Based; Ahmed Tewfik; 1-2 cr.  
 53427 054 FWK, In Person Term Based; Joseph Talghader; 1-2 cr.  
 53430 057 FWK, In Person Term Based; Randall Victoria; 1-2 cr.  
 52321 051 FWK, In Person Term Based; Guillermo Sapiro; 1-2 cr.  
 52301 031 FWK, In Person Term Based; James Leger; 1-2 cr.  
 52309 039 FWK, In Person Term Based; Keshab Parhi; 1-2 cr.  
 50329 001 FWK, In Person Term Based; Massoud Amin; 1-2 cr.  
 52289 019 FWK, In Person Term Based; Paul Imbertson; 1-2 cr.  
 52274 004 FWK, In Person Term Based; Vladimir Cherkassky; 1-2 cr.  
 52303 033 FWK, In Person Term Based; Zhi-Quan Luo; 1-2 cr.  
 52297 027 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52291 021 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52292 022 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52294 024 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52296 026 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52298 028 FWK, In Person Term Based; Larry Kinney; 1-2 cr.  
 52306 036 FWK, In Person Term Based; Jaekyun Moon; 1-2 cr.

### 8161 Physics of Semiconductors

(Student Option; Prereq: instr consent)

53046 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 102, In Person Term Based; P Ruden; 3 cr.  
 57849 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; P Ruden; 3 cr.  
 57850 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; P Ruden; 3 cr.  
 57851 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; P Ruden; 3 cr.

### 8215 Nonlinear Systems

(Student Option; Prereq: instr consent)

53345 881 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Mihailo Jovanovic; 3 cr.  
 53347 885 LEC, 14:30-15:45 TTh, Rochester Campus Room TBA, Primarily Online; Mihailo Jovanovic; 3 cr.  
 52901 001 LEC, 14:30-15:45 TTh, Keller Hall 3-115, In Person Term Based; Mihailo Jovanovic; 3 cr.  
 53346 883 LEC, 14:30-15:45 TTh, Room TBA, Primarily Online; Mihailo Jovanovic; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49112 001 IND, In Person Term Based; Kyle Dukart; 1 cr.

### 8337 Analog Circuits for Wire/Wireless Communications

(A-F or Audit; Prereq: 5333)

51475 001 LEC, 9:45-11:00 TTh, Keller Hall 3-111, In Person Term Based; Ramesh Harjani; 3 cr.  
 51481 881 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Ramesh Harjani; 3 cr.  
 51482 883 LEC, 9:45-11:00 TTh, Room TBA, Primarily Online; Ramesh Harjani; 3 cr.  
 51483 885 LEC, 9:45-11:00 TTh, Rochester Campus Room TBA, Primarily Online; Ramesh Harjani; 3 cr.

### 8367 Parallel Computer Organization

(Student Option; Prereq: 5364 or CSCI 5204)

58036 001 LEC, 9:45-11:00 MW, Keller Hall 3-125, In Person Term Based; Meets With: 001 CSCI 8205; Antonia Zhai; 3 cr.  
 51489 881 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; ; 3 cr.  
 51490 883 LEC, 9:45-11:00 MW, Room TBA, Primarily Online; William Robbins; 3 cr.  
 51491 885 LEC, 9:45-11:00 MW, Rochester Campus Room TBA, Primarily Online; William Robbins; 3 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49212 001 IND, In Person Term Based; ; 1 cr.

### 8581 Detection and Estimation Theory

(Student Option; Prereq: 5531 or instr consent)

49322 001 LEC, 11:15-12:30 TTh, Amundson Hall 240, In Person Term Based; Georgios Giannakis; 3 cr.  
 51019 881 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Georgios Giannakis; 3 cr.  
 51485 883 LEC, 11:15-12:30 TTh, Room TBA, Primarily Online; Georgios Giannakis; 3 cr.  
 51020 885 LEC, 11:15-12:30 TTh, Rochester Campus Room TBA, Primarily Online; Georgios Giannakis; 3 cr.

### 8660 Seminar: Magnetism

(S-N or Audit; )

47266 001 LEC, 14:30-15:20 F, Keller Hall 3-125, In Person Term Based; Jianping Wang; 1 cr.  
 51021 881 LEC, 14:30-15:20 F, Room TBA, Primarily Online; Jianping Wang; 1 cr.  
 51487 883 LEC, 14:30-15:20 F, Room TBA, Primarily Online; Jianping Wang; 1 cr.  
 51022 885 LEC, 14:30-15:20 F, Rochester Campus Room TBA, Primarily Online; Jianping Wang; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49301 001 IND, In Person Term Based; ; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49399 001 IND, In Person Term Based; ; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; )

49522 001 IND, In Person Term Based; ; 1-24 cr.

### 8920 Teaching Experience in Electrical and Computer Engineering

(S-N only; Prereq: PhD candidate in electrical engineering, passed written preliminary exam)

58785 001 LEC, 16:00-16:50 T, Bruininks Hall 144, In Person Term Based; David Lilja; 1 cr.

### 8925 Ethics in Electrical and Computer Engineering

(S-N only; Prereq: Grad student in electrical engineering)

60445 001 LEC, 10:10-11:00 W, Bruininks Hall 144, In Person Term Based; 1 cr.

### 8940 Special Investigations

(Student Option; Prereq: 1-3 cr [may be repeated for cr]; IT grad student or instr consent)

53907 010 IND, In Person Term Based; ; 1-3 cr.  
 53914 017 IND, In Person Term Based; ; 1-3 cr.  
 53915 020 IND, In Person Term Based; ; 1-3 cr.  
 53996 025 IND, In Person Term Based; ; 1-3 cr.  
 53998 027 IND, In Person Term Based; ; 1-3 cr.  
 54001 030 IND, In Person Term Based; ; 1-3 cr.  
 54010 040 IND, In Person Term Based; ; 1-3 cr.  
 54011 041 IND, In Person Term Based; ; 1-3 cr.  
 54025 055 IND, In Person Term Based; ; 1-3 cr.  
 54033 061 IND, In Person Term Based; ; 1-3 cr.  
 54034 062 IND, In Person Term Based; ; 1-3 cr.  
 54035 063 IND, In Person Term Based; ; 1-3 cr.  
 54037 065 IND, In Person Term Based; ; 1-3 cr.  
 54038 066 IND, In Person Term Based; ; 1-3 cr.  
 53902 005 IND, In Person Term Based; ; 1-3 cr.  
 54036 064 IND, In Person Term Based; ; 1-3 cr.  
 54026 056 IND, In Person Term Based; Ahmed Tewfik; 1-3 cr.  
 53917 018 IND, In Person Term Based; Allison Hubel; 1-3 cr.  
 53910 013 IND, In Person Term Based; Anand Gopinath; 1-3 cr.  
 54023 053 IND, In Person Term Based; Bethanie Stadler; 1-3 cr.  
 53912 015 IND, In Person Term Based; Bin He; 1-3 cr.  
 54031 059 IND, In Person Term Based; Bruce Wollenberg; 1-3 cr.  
 54015 045 IND, In Person Term Based; Charles Rennolet; 1-3 cr.  
 53999 028 IND, In Person Term Based; Chris Kim; 1-3 cr.  
 54003 032 IND, In Person Term Based; David Lilja; 1-3 cr.  
 54032 060 IND, In Person Term Based; Demoz Gebre Egziabher; 1-3 cr.

53906 009 IND, In Person Term Based; Douglas Ernie; 1-3 cr.  
 53905 008 IND, In Person Term Based; Emad Ebbini; 1-3 cr.  
 54006 035 IND, In Person Term Based; Farnaz Mounes-Toussi; 1-3 cr.  
 53909 012 IND, In Person Term Based; Georgios Giannakis; 1-3 cr.  
 54022 052 IND, In Person Term Based; Gerald Sobelman; 1-3 cr.  
 54008 038 IND, In Person Term Based; Hal Ottesen; 1-3 cr.  
 53918 021 IND, In Person Term Based; Heinrich Jacobs; 1-3 cr.  
 54007 036 IND, In Person Term Based; Jaekyun Moon; 1-3 cr.  
 54017 047 IND, In Person Term Based; Jaijeet Roychowdhury; 1-3 cr.  
 54002 031 IND, In Person Term Based; James Leger; 1-3 cr.  
 54030 058 IND, In Person Term Based; Jianping Wang; 1-3 cr.  
 53997 026 IND, In Person Term Based; John Kieffer; 1-3 cr.  
 54021 051 IND, In Person Term Based; John Sartori; 1-3 cr.  
 54024 054 IND, In Person Term Based; Joseph Talghader; 1-3 cr.  
 54009 039 IND, In Person Term Based; Keshab Parhi; 1-3 cr.  
 54000 029 IND, In Person Term Based; Larry Kinney; 1-3 cr.  
 54013 043 IND, In Person Term Based; Marc Riedel; 1-3 cr.  
 53994 023 IND, In Person Term Based; Mihailo Jovanovic; 1-3 cr.  
 53995 024 IND, In Person Term Based; Mostafa Kaveh; 1-3 cr.  
 53993 022 IND, In Person Term Based; Nihar Jindal; 1-3 cr.  
 54018 048 IND, In Person Term Based; P Ruden; 1-3 cr.  
 53916 019 IND, In Person Term Based; Paul Imbertson; 1-3 cr.  
 53903 006 IND, In Person Term Based; Philip Cohen; 1-3 cr.  
 53911 014 IND, In Person Term Based; Ramesh Harjani; 1-3 cr.  
 54027 057 IND, In Person Term Based; Randall Victoria; 1-3 cr.  
 53904 007 IND, In Person Term Based; Rhonda Franklin; 1-3 cr.  
 54019 049 IND, In Person Term Based; Sachin Sapatnekar; 1-3 cr.  
 53919 037 IND, In Person Term Based; Sang-Hyun Oh; 1-3 cr.  
 54016 046 IND, In Person Term Based; Stergios Roumeliotis; 1-3 cr.  
 53913 016 IND, In Person Term Based; Ted Higman; 1-3 cr.  
 54012 042 IND, In Person Term Based; Thomas Posbergh; 1-3 cr.  
 53908 011 IND, In Person Term Based; Tryphon Georgiou; 1-3 cr.  
 53901 004 IND, In Person Term Based; Vladimir Cherkassky; 1-3 cr.  
 54014 044 IND, In Person Term Based; William Robbins; 1-3 cr.  
 54004 033 IND, In Person Term Based; Zhi-Quan Luo; 1-3 cr.  
 54020 050 IND, In Person Term Based; murti salapaka; 1-3 cr.  
 54005 034 IND, In Person Term Based; Ned Mohan; 1-3 cr.  
 46855 001 IND, In Person Term Based; Rahmet Karpuzcu; 1-3 cr.  
 53899 002 IND, In Person Term Based; Kia Bazargan; 1-3 cr.  
 53900 003 IND, In Person Term Based; Stephen Campbell; 1-3 cr.

### 8950 Advanced Topics in Electrical and Computer Engineering

(Student Option; Prereq: Cr ar [may be repeated for cr]; instr consent)

52653 883 LEC, 8:15- 9:30 TTh, ONLINE, Completely Online; Mihailo Jovanovic; 1-3 cr.  
 59461 001 LEC, 16:00-17:15 MW, Akerman Hall 227, In Person Term Based; Jeong-Hyun Cho; 1-3 cr.  
 52652 881 LEC, 8:15- 9:30 TTh, Room TBA, In Person Term Based; Mihailo Jovanovic; 1-3 cr.  
 52654 885 LEC, 8:15- 9:30 TTh, Rochester Campus Room TBA, In Person Term Based; Mihailo Jovanovic; 1-3 cr.  
 59804 002 LEC, 14:30-15:45 MW, Akerman Hall 211, In Person Term Based; Sairaj Dhople; 1-3 cr.  
 59805 003 LEC, 8:15- 9:30 MW, Akerman Hall 211, In Person Term Based; Steven Koester; 1-3 cr.

### 8980 Graduate Seminar II

(S-N or Audit; )

68624 881 LEC, 16:00-17:15 Th, Room TBA, Primarily Online; 1 cr.  
 46856 001 LEC, 16:00-17:15 Th, Keller Hall 3-230, In Person Term Based; P Ruden; 1 cr.

## Emergency Medicine (EMMD)

### 7400 Emergency Medicine, Duluth Elective

(H-N only; )

53367 001 FWK, In Person Term Based; 4 cr.

### 7500 Emergency Medicine: Core Course

(H-N or Audit; Prereq: Successful completion of [basic medicine, surgery] rotations is recommended)

49617 001 FWK, In Person Term Based; 4-6 cr.

### 7512 Emergency Medicine BS: Bedside Ultrasound for the Clinician

(H-N only; )

55911 001 FWK, In Person Term Based; 2-4 cr.

### 7521 Research in Emergency Medicine

(H-N or Audit; Prereq: Interested students must contact Dr. Michelle Biros at least 6 weeks before they intend to begin this elective; an updated "Current Projects" list is available for ongoing research activity and areas of interest for all three practice sites(HC,SR,FU.)

49989 001 IND, In Person Term Based; 2-9 cr.

### 7571 Clinical Toxicology and Emergency Medicine

(H-N or Audit; Prereq: Med 7501 recommended)

47981 001 FWK, In Person Term Based; 4 cr.

### 7600 Advanced Emergency Medicine: Career Track

(H-N or Audit; Prereq: 7500)

50297 001 FWK, In Person Term Based; 2-4 cr.

## Endodontics (ENDO)

### 5306 Advanced Clinical Endodontics

(A-F or Audit; )

48943 001 FWK, In Person Term Based; 1-6 cr.

### 5309 Advanced Clinical Endodontics

(A-F or Audit; Prereq: 5308)

48944 001 FWK, In Person Term Based; Michael Baisden; 1-6 cr.

### 5313 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5312)

48945 001 FWK, In Person Term Based; Walter Bowles; 1 cr.

### 5316 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5315)

48946 001 FWK, In Person Term Based; Walter Bowles; 1 cr.

### 5330 Review of Cases

(A-F or Audit; Prereq: 5329)

49968 001 DIS, In Person Term Based; Scott McClanahan; 1-2 cr.

### 5332 Review of cases

(A-F or Audit; Prereq: dept consent)

48948 001 DIS, In Person Term Based; Scott McClanahan; 1 cr.

### 5600 Endodontic Histopathology

(S-N or Audit; )

51064 001 LEC, In Person Term Based; Robert Edmunds; 1 cr.

### 8002 Research in Endodontics

(Student Option; Prereq: dept consent)

49969 001 IND, In Person Term Based; 1-2 cr.

### 8005 Research in Endodontics

(A-F only; Prereq: dept consent)

48951 001 IND, In Person Term Based; Walter Bowles; 1-2 cr.

### 8311 Literature Review

(A-F or Audit; Prereq: 8310)

49970 001 LEC, In Person Term Based; 2 cr.

### 8313 Literature Review

(A-F or Audit; Prereq: 8312)

48947 001 LEC, In Person Term Based; Michael Baisden; 2 cr.

### 8321 Advanced Endodontic Lecture

(A-F or Audit; Prereq: 8320)

48949 001 LEC, In Person Term Based; 1 cr.

### 8323 Advanced Endodontic Lecture

(A-F or Audit; Prereq: 8322)

48950 001 LEC, In Person Term Based; Walter Bowles; 1 cr.

### 8335 Endodontics/Periodontics Seminar

(S-N or Audit; Prereq: dept consent)

50166 001 LEC, In Person Term Based; 1 cr.

## English as a Second Language (ESL)

### 10 Beginning Grammar

(S-N or Audit; Prereq: Non-native English speaker)

58757 099 LEC, 9:05- 9:55 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 10; Valerie Franz; 0 cr.

58756 001 LEC, 9:05- 9:55 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 099 ESL 10; Valerie Franz; 0 cr.

### 20 Beginning Reading and Composition

(S-N or Audit; Prereq: Non-native English speaker)

58759 099 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 20; Valerie Franz; 0 cr.

58758 001 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 099 ESL 20; Valerie Franz; 0 cr.

### 30 Beginning Oral Skills

(S-N or Audit; Prereq: Non-native English speaker)

58761 099 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 001 ESL 30; Valerie Franz; 0 cr.

58760 001 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 099 ESL 30; Valerie Franz; 0 cr.

### 110 High-Beginning Grammar

(S-N or Audit; Prereq: Non-native English speaker)

55233 099 LEC, 9:05- 9:55 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 001 ESL 110; Megan Rodriguez; 0 cr.

55231 001 LEC, 9:05- 9:55 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 099 ESL 110; Megan Rodriguez; 0 cr.

55232 002 LEC, 9:05- 9:55 MTWThF, Kolthoff Hall 132, In Person Term Based; Valerie Franz; 0 cr.

### 120 High-Beginning Reading and Composition

(S-N or Audit; Prereq: Non-native English speaker)

55236 099 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 001 ESL 120; 0 cr.

55234 001 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 099 ESL 120; 0 cr.

55235 002 LEC, 10:10-12:05 TTh, Hubert H. Humphrey Center 20, 10:10-12:05 MWF, Blegen Hall 240, In Person Term Based; Valerie Franz; 0 cr.

### 130 High Beginning Oral Skills

(S-N or Audit; Prereq: Non-native speaker of English)

55239 099 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 130; Megan Rodriguez; 0 cr.

55237 001 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 099 ESL 130; Megan Rodriguez; 0 cr.

55238 002 LEC, 14:30-16:25 TTh, Ford Hall B60, 14:30-16:25 MWF, Bruininks Hall 119, In Person Term Based; Valerie Franz; 0 cr.

### 210 Intermediate Grammar

(S-N or Audit; Prereq: Non-native speaker of English)

55242 099 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 210; Megan Rodriguez; 0 cr.

55240 001 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 099 ESL 210; Megan Rodriguez; 0 cr.

55241 002 LEC, 12:20-13:10 MTWThF, Peik Hall 28, In Person Term Based; Valerie Franz; 0 cr.

### 220 Intermediate Reading and Composition

(S-N or Audit; Prereq: Nonnative English speaker)

55245 099 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 220; Megan Rodriguez; 0 cr.

55243 001 LEC, 10:10-12:05 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 099 ESL 220; Megan Rodriguez; 0 cr.

55244 002 LEC, 10:10-12:05 TTh, Civil Engineering Bldg 212, 10:10-12:05 MWF, Lind Hall 302, In Person Term Based; Valerie Franz; 0 cr.

### 230 Intermediate Oral Skills

(S-N or Audit; Prereq: Nonnative English speaker)

55248 099 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 230; Megan Rodriguez; 0 cr.  
 55246 001 LEC, 14:30-16:25 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 099 ESL 230; Megan Rodriguez; 0 cr.  
 55247 002 LEC, 14:30-16:25 TTh, Blegen Hall 135, 14:30-16:25 MWF, Blegen Hall 425, In Person Term Based; Valerie Franz; 0 cr.

### 310 Advanced Grammar

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 56395 002 LEC, In Person Term Based; 0 cr.  
 56394 099 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 3101001 ESL 310; Megan Rodriguez; 0 cr.  
 56393 001 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 3101099 ESL 310; Megan Rodriguez; 0 cr.  
 59428 003 LEC, 12:20-13:10 MTWThF, Carlson School of Mgmt 1-127, In Person Term Based; Valerie Franz; 0 cr.

### 320 Advanced Reading and Composition

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55249 099 LEC, 9:05-11:00 MWF, Ford Hall 150, In Person Term Based; Meets With: 001 ESL 320003 ESL 3201004 ESL 3201; Valerie Franz; 0 cr.  
 54075 001 LEC, 9:05-11:00 MWF, Ford Hall 150, In Person Term Based; Meets With: 099 ESL 320003 ESL 3201004 ESL 3201; Valerie Franz; 0 cr.  
 54886 002 LEC, 8:00-9:55 MWF, Smith Hall 121, In Person Term Based; Valerie Franz; 0 cr.  
 59430 003 LEC, 8:00-9:55 MWF, Bruininks Hall 144, In Person Term Based; Valerie Franz; 0 cr.

### 330 Advanced Oral Skills

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55254 099 LEC, 14:30-16:25 TTh, Peik Gymnasium G65, In Person Term Based; Meets With: 001 ESL 3501001 ESL 330002 ESL 3501; Megan Rodriguez; 0 cr.  
 55250 001 LEC, 14:30-16:25 TTh, Peik Gymnasium G65, In Person Term Based; Meets With: 001 ESL 3501099 ESL 330002 ESL 3501; Megan Rodriguez; 0 cr.  
 55255 199 DIS, 15:35-16:25 F, Kolthoff Hall 137, In Person Term Based; Meets With: 002 ESL 330; Megan Rodriguez; 0 cr.  
 55251 002 DIS, 15:35-16:25 F, Kolthoff Hall 137, In Person Term Based; Meets With: 199 ESL 330; Megan Rodriguez; 0 cr.  
 59434 005 LEC, 15:35-16:25 TTh, Kolthoff Hall 140, In Person Term Based; Valerie Franz; 0 cr.  
 55252 003 LEC, 14:30-16:25 Th, Hubert H. Humphrey Center 30, 14:30-16:25 T, Hubert H. Humphrey Center 35, In Person Term Based; Valerie Franz; 0 cr.  
 59435 006 DIS, 15:35-16:25 F, Kolthoff Hall 138, In Person Term Based; Valerie Franz; 0 cr.  
 55253 004 DIS, 15:35-16:25 F, Kolthoff Hall 139, In Person Term Based; Valerie Franz; 0 cr.

### 410 English Grammar for Academic

**Purposes**  
**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55257 099 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 001 ESL 410; Megan Rodriguez; 0 cr.  
 55256 001 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 099 ESL 410; Megan Rodriguez; 0 cr.  
 58762 002 LEC, 12:20-13:10 MTWThF, Ford Hall 155, In Person Term Based; Valerie Franz; 0 cr.

### 420 High Advanced Reading/Composition

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55259 099 LEC, 9:05-11:00 MWF, Vincent Hall 207, In Person Term Based; Meets With: 001 ESL 420; Valerie Franz; 0 cr.  
 55258 001 LEC, 9:05-11:00 MWF, Vincent Hall 207, In Person Term Based; Meets With: 099 ESL 420; Valerie Franz; 0 cr.  
 58763 002 LEC, 8:00-9:55 MWF, Vincent Hall 364, In Person Term Based; Valerie Franz; 0 cr.

### 430 High Advanced Oral Skills

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55262 099 LEC, 10:10-12:05 TTh, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 001 ESL 430; Megan Rodriguez; 0 cr.  
 55260 001 LEC, 10:10-12:05 TTh, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 099 ESL 430; Megan Rodriguez; 0 cr.  
 58764 003 LEC, 10:10-12:05 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Valerie Franz; 0 cr.  
 55263 199 DIS, 11:15-12:05 F, Kolthoff Hall 138, In Person Term Based; Meets With: 002 ESL 430; Valerie Franz; 0 cr.

55261 002 DIS, 11:15-12:05 F, Kolthoff Hall 138, In Person Term Based; Meets With: 199 ESL 430; Valerie Franz; 0 cr.  
 58765 004 DIS, 11:15-12:05 F, Kolthoff Hall 139, In Person Term Based; Valerie Franz; 0 cr.

### 901 American Culture

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 56411 099 LEC, 8:00-9:55 TTh, Peik Hall 28, In Person Term Based; Meets With: 001 ESL 901; Valerie Franz; 0 cr.  
 56409 001 LEC, 8:00-9:55 TTh, Peik Hall 28, In Person Term Based; Meets With: 099 ESL 901; Valerie Franz; 0 cr.  
 57995 005 LEC, 14:30-16:25 MW, Akerman Hall 327, In Person Term Based; Valerie Franz; 0 cr.  
 56413 003 LEC, 14:30-16:25 MW, Vincent Hall 209, In Person Term Based; Valerie Franz; 0 cr.  
 59492 007 LEC, 14:30-16:25 MW, Vincent Hall 311, In Person Term Based; Valerie Franz; 0 cr.  
 56412 199 DIS, 14:30-15:20 F, Kolthoff Hall 137, In Person Term Based; Meets With: 002 ESL 901; Valerie Franz; 0 cr.  
 56410 002 DIS, 14:30-15:20 F, Kolthoff Hall 137, In Person Term Based; Meets With: 199 ESL 901; Valerie Franz; 0 cr.  
 59493 008 DIS, 14:30-15:20 F, Kolthoff Hall 138, In Person Term Based; Valerie Franz; 0 cr.  
 57996 006 DIS, 14:30-15:20 F, Kolthoff Hall 139, In Person Term Based; Valerie Franz; 0 cr.  
 56414 004 DIS, 14:30-15:20 F, Kolthoff Hall 140, In Person Term Based; Valerie Franz; 0 cr.

### 902 Academic Skills for the American University

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 56416 099 LEC, 13:25-14:15 MTWTh, Bruininks Hall 144, In Person Term Based; Meets With: 001 ESL 902; Valerie Franz; 0 cr.  
 56415 001 LEC, 13:25-14:15 MTWTh, Bruininks Hall 144, In Person Term Based; Meets With: 099 ESL 902; Valerie Franz; 0 cr.  
 57997 003 LEC, 13:25-14:15 MTWTh, Peik Gymnasium G65, In Person Term Based; Valerie Franz; 0 cr.  
 56417 002 LEC, 13:25-14:15 MTWTh, Blegen Hall 335, In Person Term Based; Valerie Franz; 0 cr.

### 903 Business English

**(S-N or Audit; Prereq: Non-native English speaker)**  
 56748 099 LEC, 16:40-18:35 TTh, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 903; Valerie Franz; 0 cr.  
 56747 001 LEC, 16:40-18:35 TTh, Kolthoff Hall 133, In Person Term Based; Meets With: 099 ESL 903; Valerie Franz; 0 cr.

### 904 TOEFL Preparation

**(S-N or Audit; )**  
 54773 001 LEC, 16:40-18:35 MW, Kolthoff Hall 133, In Person Term Based; Valerie Franz; 0 cr.  
 54774 002 LEC, 16:40-18:35 MW, Vincent Hall 213, In Person Term Based; Valerie Franz; 0 cr.

### 905 Topics in ESL

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 61391 001 LEC, 13:25-14:15 MTWTh, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 099 ESL 905; Valerie Franz; 0 cr.  
 58732 099 LEC, 13:25-14:15 MTWTh, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 001 ESL 905; Valerie Franz; 0 cr.

### 906 English for Business Interactions

**(S-N or Audit; Prereq: Non-native English speaker)**  
 58766 001 LEC, 16:40-18:35 MF, Bruininks Hall 119, In Person Term Based; Meets With: 001 ESL 3006001 ESL 5006; Valerie Franz; 0 cr.

### 907 English for Science and Engineering

**(S-N or Audit; Prereq: Non-native English Speaker, dept consent)**  
 61051 001 LEC, 16:40-18:35 TTh, Kolthoff Hall 133, In Person Term Based; Meets With: 099 ESL 907; Valerie Franz; 0 cr.  
 61052 099 LEC, 16:40-18:35 TTh, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 907; Valerie Franz; 0 cr.

### 921 Academic Writing

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 55297 099 LEC, 16:40-18:35 TTh, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 3302001 ESL 921; Valerie Franz; 0 cr.  
 54772 001 LEC, 16:40-18:35 TTh, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 3302099 ESL 921; Valerie Franz; 0 cr.

### 931 Academic Speaking

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 56419 099 LEC, 14:30-16:25 MW, Smith Hall 111, In Person Term Based; Meets With: 001 ESL 3602001 ESL 931; Valerie Franz; 0 cr.  
 56418 001 LEC, 14:30-16:25 MW, Smith Hall 111, In Person Term Based; Meets With: 001 ESL 3602099 ESL 931; Valerie Franz; 0 cr.

### 941 Research Writing for the American University

**(S-N only; Prereq: [Non-native speaker of English, [TOEFL iBT 79 or IELTS 6.5 or MNBat 80 or equiv]] or dept consent)**  
 56480 099 LEC, 8:00-9:55 MW, Nicholson Hall 315, In Person Term Based; Meets With: 001 ESL 3402001 ESL 941; Valerie Franz; 0 cr.  
 56479 001 LEC, 8:00-9:55 MW, Nicholson Hall 315, In Person Term Based; Meets With: 001 ESL 3402099 ESL 941; Valerie Franz; 0 cr.

### 951 Pronunciation

**(S-N or Audit; Prereq: Non-native speaker of English)**  
 56420 001 LEC, 16:40-18:35 MW, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 3551099 ESL 951; Valerie Franz; 0 cr.  
 56421 099 LEC, 16:40-18:35 MW, Kolthoff Hall 132, In Person Term Based; Meets With: 001 ESL 3551001 ESL 951; Valerie Franz; 0 cr.

### 3001 Integrated Skills for Academic English

**(Student Option; Prereq: Non-native speaker of English)**  
 56422 001 LEC, 16:40-18:35 MW, Kolthoff Hall 133, In Person Term Based; Valerie Franz; 2 cr.

### 3006 English for Business Interactions

**(Student Option; Prereq: Non-native English speaker)**  
 58768 001 LEC, 16:40-18:35 MF, Bruininks Hall 119, In Person Term Based; Meets With: 001 ESL 906001 ESL 5006; Valerie Franz; 2 cr.

### 3101 Advanced English Grammar

**(Student Option; Prereq: dept consent, non-native speaker of English, [C-TOEFL score 153-187 or equiv], ESL program consent)**  
 54077 001 LEC, 12:20-13:10 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 001 ESL 310099 ESL 310; Megan Rodriguez; 4 cr.

### 3102 English Grammar for Academic Purposes

**(Student Option; Prereq: 3101, [Non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent)**  
 55370 A94 LEC, Online & Distance Lrng (ODL); Megan Rodriguez; 4 cr.  
 53118 001 LEC, 8:00-8:50 MTWTh, Kolthoff Hall 132, In Person Term Based; Valerie Franz; 4 cr.

### 3201 Advanced English Reading and Composition

**(Student Option; Prereq: Non-native speaker of English, [IBT score of 53-67 or equiv])**  
 55278 003 LEC, 9:05-11:00 MWF, Ford Hall 150, In Person Term Based; Meets With: 001 ESL 320099 ESL 320004 ESL 3201; Valerie Franz; 5 cr.  
 61099 001 LEC, 8:00-9:55 TTh, Appleby Hall 219, In Person Term Based; Valerie Franz; 5 cr.  
 55279 004 DIS, 9:05-11:00 MWF, Ford Hall 150, In Person Term Based; Meets With: 001 ESL 320099 ESL 320003 ESL 3201; Valerie Franz; 5 cr.  
 61100 002 DIS, 8:00-8:50 F, Kolthoff Hall 132, In Person Term Based; Valerie Franz; 5 cr.

### 3202 Academic Reading and Composition

**(Student Option; Prereq: 3201, Non-native speaker of English, [IBT score of at least 68 or equiv], dept consent)**  
 57998 005 LEC, 16:40-18:35 MW, Kolthoff Hall 134, In Person Term Based; Valerie Franz; 5 cr.  
 61158 003 LEC, 8:00-9:55 TTh, Civil Engineering Bldg 212, In Person Term Based; Valerie Franz; 5 cr.  
 57999 006 DIS, 16:40-17:30 F, Kolthoff Hall 132, In Person Term Based; Valerie Franz; 5 cr.  
 61159 004 DIS, 8:00-8:50 F, Kolthoff Hall 133, In Person Term Based; Valerie Franz; 5 cr.

### 3302 Writing for Academic Purposes

**(Student Option; Prereq: 3202, non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent)**





**3026 Mediterranean Wanderings: Literature and History on the Borders of Three Continents**

(Student Option; GP)  
67652 001 DIS, 13:00-14:15 TTh, Hubert H. Humphrey Center 60, In Person Term Based; John Watkins; 3 cr.

**3027W The Essay**

(Student Option; WI)  
54067 002 LEC, 13:25-15:20 MW, Amundson Hall 162, In Person Term Based; Ann Tandy-Treiber; 4 cr.  
54066 001 LEC, 14:30-16:25 TTh, Akerman Hall 319, In Person Term Based; Jeffrey Squires; 4 cr.

**3040 Studies in Film**

(Student Option; )  
58648 001 LEC, 17:30-21:00 M, Lind Hall 325, In Person Term Based; Matthew Harrison; 3 cr.

**3061 Literature and Music**

(Student Option; LITR)  
61129 001 DIS, 13:00-14:15 TTh, Lind Hall 320, In Person Term Based; Geoffrey Sirc; 3 cr.

**3071 The American Food Revolution in Literature and Television**

(Student Option; CIV)  
65491 001 LEC, 9:45-11:00 MW, Lind Hall 217, In Person Term Based; Lianna Farber; 3 cr.

**3090 General Topics**

(Student Option; )  
58649 001 LEC, 9:45-11:00 TTh, Lind Hall 315, In Person Term Based; Amit Yahav; 3 cr.  
68322 002 LEC, In Person Term Based; 3 cr.

**3091 The Literature and Film of Baseball**

(Student Option; LITR)  
68720 001 DIS, 13:00-14:15 MW, Lind Hall 303, In Person Term Based; Lianna Farber; 3 cr.

**3132 The King James Bible as Literature**

(Student Option; )  
65492 001 LEC, 13:00-14:15 MW, Lind Hall 340, In Person Term Based; David Haley; 3 cr.

**3141 The Restoration and the Eighteenth Century**

(A-F or Audit; )  
65495 001 LEC, 13:00-14:15 TTh, Lind Hall 315, In Person Term Based; Andrew Eifenbein; 3 cr.

**3161 Victorian Literatures and Cultures**

(Student Option; )  
60348 001 LEC, 14:30-15:45 TTh, Lind Hall 303, In Person Term Based; Michael Hancher; 3 cr.

**3222 American Novel from 1900**

(Student Option; )  
60349 001 LEC, 11:15-12:30 TTh, Lind Hall 315, In Person Term Based; Jani Scandura; 3 cr.

**3231 American Drama**

(Student Option; )  
65496 001 LEC, 14:30-15:45 TTh, Lind Hall 315, In Person Term Based; Josephine Lee; 3 cr.

**3330 Gay, Lesbian, Bisexual, and Transgender Literature**

(Student Option; )  
58806 001 LEC, 16:00-17:15 TTh, Lind Hall 229, In Person Term Based; Meets With: 001 GLBT 3610; James Cihlar; 3 cr.

**3350 Women Writers**

(Student Option; )  
67307 001 LEC, 13:00-14:15 TTh, Lind Hall 203, In Person Term Based; M. Fitzgerald; 3 cr.

**3501 Public Discourse: Coming to Terms With the Environment**

(Student Option; ENV,LITR)  
58650 001 LEC, 14:30-15:45 TTh, Lind Hall 229, In Person Term Based; Melissa Licht; 3 cr.

**3506 Learning Internships II**

(A-F or Audit; Prereq: 3505 in preceding semester or instr consent)  
54612 001 FWK, 14:30-15:45 MW, Ford Hall 170, In Person Term Based; Eric Daigre; 4 cr.

**3507W Introduction to Chicana/o Literature**

(Student Option; DSJ,WI,LITR)  
59516 002 LEC, 13:00-14:15 MW, Scott Hall 4, In Person Term Based; Meets With: 002 CHIC 3507W; 3 cr.  
59515 001 LEC, 11:15-12:30 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 CHIC 3507W; Alexandra Covarrubias; 3 cr.

**3598W Introduction to African American Literature and Culture II**

(Student Option; LITR,WI)  
57688 001 LEC, 11:15-13:10 TTh, Blegen Hall 135, In Person Term Based; Meets With: 001 AFRO 3598W; John Wright; 4 cr.

**3601 Analysis of the English Language**

(Student Option; )  
65497 001 DIS, 10:10-12:05 TTh, Akerman Hall 209, In Person Term Based; Andrew Eifenbein; 4 cr.

**3712 Literary Magazine Production Lab II**

(A-F only; Prereq: [3711, instr consent])  
55200 001 LAB, 18:15-20:00 TTh, Ford Hall 155, In Person Term Based; James Cihlar; 4 cr.

**3741 Literacy and American Cultural Diversity**

(Student Option; DSJ)  
52507 001 FWK, 8:15-9:30 MW, Ford Hall 170, In Person Term Based; Eric Daigre; 4 cr.  
54068 002 FWK, 13:00-14:15 MW, Ford Hall 170, In Person Term Based; Eric Daigre; 4 cr.

**3883V Honors Thesis**

(A-F or Audit; Prereq-Honors candidacy in English, consent of English honors advisor.WI)  
52647 001 IND, 10:10-12:05 Th, Rapson Hall 15, In Person Term Based; Daniel Philippon; 1-4 cr.

**3960W Senior Seminar**

(A-F or Audit; Prereq: English major, [jr or sr], major adviser approval, dept consentWI)  
52516 004 LEC, 8:15-9:30 TTh, Lind Hall 229, In Person Term Based; Ellen Messer-Davidow; 4 cr.  
46669 001 LEC, 9:45-11:00 MW, Ford Hall 170, In Person Term Based; Lois Cucullu; 4 cr.  
52737 002 LEC, 9:45-11:00 TTh, Ford Hall 151, In Person Term Based; Michael Hancher; 4 cr.  
54622 005 LEC, 17:00-20:00 T, Rapson Hall 15, In Person Term Based; Nabil Matar; 4 cr.  
51751 003 LEC, 13:00-14:15 TTh, Ford Hall 170, In Person Term Based; Rebecca Krug; 4 cr.

**4152 Nineteenth Century British Novel**

(A-F or Audit; )  
60350 001 LEC, 13:00-14:15 MW, Rapson Hall 13, In Person Term Based; Elaine Auyoung; 3 cr.

**4613 Old English II**

(Student Option; Prereq: 4612)  
65498 001 DIS, 17:30-20:00 M, Ford Hall B60, In Person Term Based; Andrew Scheil; 3 cr.

**4711 Introduction to Editing and Publishing**

(Student Option; Prereq: (Credit will not be granted if credit has been received for ENGL 5711 or ENGL 5401; prereq. jr or senior or grad student) prereq: (Credit will not be granted if credit has been received for ENGL 5711 or ENGL 5401; prereq. jr or senior or grad student))  
51308 001 DIS, 17:45-19:25 MW, Lind Hall 217, In Person Term Based; Michael Tortorello; 4 cr.

**5090 Readings in Special Subjects**

(Student Option; Prereq: grad student or instr consent)  
57689 001 LEC, 15:35-18:05 W, Amundson Hall 156, In Person Term Based; Meets With: 001 ENG W 5130; Peter Campion; 1-4 cr.

**5510 Readings in Criticism and Theory**

(Student Option; Prereq: Grad student or instr consent)  
65499 001 LEC, 14:30-17:00 T, Lind Hall 50, In Person Term Based; Amit Yahav; 3 cr.

**5593 The African-American Novel**

(Student Option; )  
67423 001 LEC, 14:30-15:45 TTh, Lind Hall 203, In Person Term Based; Meets With: 001 AFRO 3593001 AFRO 5593; John Wright; 3 cr.

**5805 Writing for Publication**

(Student Option; Prereq: Grad student or instr consent)

57690 001 LEC, 14:30-17:00 F, Nolte Center 229, In Person Term Based; Meets With: 001 WRIT 5270; Donald Ross Jr; 3 cr.

**5992 Directed Readings, Study, or Research**

(Student Option; Prereq-Grad student or instr consent.)

54672 012 IND, In Person Term Based; ; 1-3 cr.  
54677 017 IND, In Person Term Based; ; 1-3 cr.  
54671 011 IND, In Person Term Based; ; 1-3 cr.  
54673 013 IND, In Person Term Based; ; 1-3 cr.  
54680 020 IND, In Person Term Based; ; 1-3 cr.  
57258 037 IND, In Person Term Based; ; 1-3 cr.  
59340 038 IND, In Person Term Based; ; 1-3 cr.  
54696 036 IND, In Person Term Based; Amit Yahav; 1-3 cr.  
54668 008 IND, In Person Term Based; Andrew Eifenbein; 1-3 cr.  
54688 028 IND, In Person Term Based; Andrew Scheil; 1-3 cr.  
54674 014 IND, In Person Term Based; Brian Goldberg; 1-3 cr.  
53394 002 IND, In Person Term Based; Charles Baxter; 1-3 cr.  
54685 025 IND, In Person Term Based; Daniel Philippon; 1-3 cr.  
54676 016 IND, In Person Term Based; David Haley; 1-3 cr.  
53103 001 IND, In Person Term Based; Elaine Auyoung; 1-3 cr.  
54684 024 IND, In Person Term Based; Ellen Messer-Davidow; 1-3 cr.  
54691 031 IND, In Person Term Based; Geoffrey Sirc; 1-3 cr.  
54687 027 IND, In Person Term Based; Jani Scandura; 1-3 cr.  
54694 034 IND, In Person Term Based; John Watkins; 1-3 cr.  
54695 035 IND, In Person Term Based; John Wright; 1-3 cr.  
54682 022 IND, In Person Term Based; Josephine Lee; 1-3 cr.  
54690 030 IND, In Person Term Based; Julie Schumacher; 1-3 cr.  
54689 029 IND, In Person Term Based; Katherine Scheil; 1-3 cr.  
54693 033 IND, In Person Term Based; Kimberley Todd; 1-3 cr.  
54669 009 IND, In Person Term Based; Lianna Farber; 1-3 cr.  
54667 007 IND, In Person Term Based; Lois Cucullu; 1-3 cr.  
54670 010 IND, In Person Term Based; M. Fitzgerald; 1-3 cr.  
54692 032 IND, In Person Term Based; Madelon Sprengnether; 1-3 cr.  
54678 018 IND, In Person Term Based; Michael Hancher; 1-3 cr.  
54683 023 IND, In Person Term Based; Nabil Matar; 1-3 cr.  
54686 026 IND, In Person Term Based; Paula Rabinowitz; 1-3 cr.  
54665 005 IND, In Person Term Based; Peter Campion; 1-3 cr.  
54679 019 IND, In Person Term Based; Qadri Ismail; 1-3 cr.  
54675 015 IND, In Person Term Based; Ramon Gonzalez; 1-3 cr.  
54681 021 IND, In Person Term Based; Rebecca Krug; 1-3 cr.  
54666 006 IND, In Person Term Based; Siobhan Craig; 1-3 cr.  
54664 003 IND, In Person Term Based; Timothy Brennan; 1-3 cr.  
59339 004 IND, In Person Term Based; Tony C. Brown; 1-3 cr.

**8150 Seminar in Shakespeare**

(Student Option; )  
60356 001 LEC, 9:30-12:00 F, Lind Hall 203, In Person Term Based; Meets With: 001 EMS 8500; Katherine Scheil; 3 cr.

**8170 Seminar in 19th-Century British Literature and Culture**

(Student Option; )  
65500 001 LEC, 14:30-17:00 W, Lind Hall 216, In Person Term Based; Brian Goldberg; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
53104 001 IND, In Person Term Based; ; 1 cr.

**8520 Seminar: Cultural Theory and Practice**

(Student Option; )  
65501 001 LEC, 14:30-17:00 Th, Lind Hall 202, In Person Term Based; Timothy Brennan; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

53105 001 IND, In Person Term Based; ; 1-6 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

53106 001 IND, In Person Term Based; 1-24 cr.

### 8992 Directed Reading in Language, Literature, Culture, Rhetoric, Composition, or Creative Writing

(Student Option; Prereq: instr consent, dept consent)

54733 030 IND, In Person Term Based; ; 1-9 cr.  
 54741 038 IND, In Person Term Based; ; 1-9 cr.  
 54716 011 IND, In Person Term Based; ; 1-9 cr.  
 54719 014 IND, In Person Term Based; ; 1-9 cr.  
 54723 019 IND, In Person Term Based; ; 1-9 cr.  
 54725 021 IND, In Person Term Based; ; 1-9 cr.  
 54726 022 IND, In Person Term Based; ; 1-9 cr.  
 54737 034 IND, In Person Term Based; ; 1-9 cr.  
 54738 035 IND, In Person Term Based; ; 1-9 cr.  
 54739 036 IND, In Person Term Based; ; 1-9 cr.  
 54740 037 IND, In Person Term Based; ; 1-9 cr.  
 54743 042 IND, In Person Term Based; Amit Yahav; 1-9 cr.  
 54715 010 IND, In Person Term Based; Andrew Elfenbein; 1-9 cr.  
 54735 032 IND, In Person Term Based; Andrew Scheil; 1-9 cr.  
 54720 015 IND, In Person Term Based; Brian Goldberg; 1-9 cr.  
 54709 002 IND, In Person Term Based; Charles Baxter; 1-9 cr.  
 54731 027 IND, In Person Term Based; Daniel Philippon; 1-9 cr.  
 54722 018 IND, In Person Term Based; David Haley; 1-9 cr.  
 53107 001 IND, In Person Term Based; Elaine Auyoung; 1-9 cr.  
 54730 026 IND, In Person Term Based; Ellen Messer-Davidow; 1-9 cr.  
 54734 031 IND, In Person Term Based; Jani Scandura; 1-9 cr.  
 54742 040 IND, In Person Term Based; John Watkins; 1-9 cr.  
 54728 024 IND, In Person Term Based; Josephine Lee; 1-9 cr.  
 54736 033 IND, In Person Term Based; Katherine Scheil; 1-9 cr.  
 54717 012 IND, In Person Term Based; Lianna Farber; 1-9 cr.  
 54713 008 IND, In Person Term Based; Lois Cucullu; 1-9 cr.  
 54718 013 IND, In Person Term Based; M. Fitzgerald; 1-9 cr.  
 54724 020 IND, In Person Term Based; Michael Hancher; 1-9 cr.  
 54729 025 IND, In Person Term Based; Nabil Matar; 1-9 cr.  
 54732 029 IND, In Person Term Based; Paula Rabinowitz; 1-9 cr.  
 54714 009 IND, In Person Term Based; Peter Campion; 1-9 cr.  
 54721 016 IND, In Person Term Based; Ramon Gonzalez; 1-9 cr.  
 54727 023 IND, In Person Term Based; Rebecca Krug; 1-9 cr.  
 54712 007 IND, In Person Term Based; Siobhan Craig; 1-9 cr.  
 54710 003 IND, In Person Term Based; Timothy Brennan; 1-9 cr.  
 54711 006 IND, In Person Term Based; Tony C. Brown; 1-9 cr.

## English: Creative Writing (ENGW)

### 1101W Introduction to Creative Writing

(Student Option No Audit; Prereq: Students may not audit this course LTR,WI)

68309 012 LAB, 10:10-12:05 Th, Amundson Hall 158, In Person Term Based; 4 cr.  
 54175 010 LAB, 11:15-13:10 F, Akerman Hall 215, In Person Term Based; ; 4 cr.  
 54170 005 LAB, 13:25-15:20 M, Akerman Hall 317, In Person Term Based; ; 4 cr.  
 54174 009 LAB, 10:10-12:05 F, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54171 006 LAB, 18:20-20:10 M, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54173 008 LAB, 9:05-11:00 F, Lind Hall 217, In Person Term Based; ; 4 cr.  
 54172 007 LAB, 18:20-20:10 Th, Lind Hall 315, In Person Term Based; ; 4 cr.  
 54167 002 LAB, 9:05-11:00 M, Akerman Hall 317, In Person Term Based; ; 4 cr.  
 59361 011 LAB, 13:25-15:20 T, Amundson Hall 124, In Person Term Based; ; 4 cr.  
 54168 003 LAB, 10:10-12:05 M, Amundson Hall 156, In Person Term Based; ; 4 cr.  
 54169 004 LAB, 11:15-13:10 M, Akerman Hall 215, In Person Term Based; ; 4 cr.

46838 001 LEC, 14:30-15:20 W, Bell Museum Auditorium, In Person Term Based; ; 4 cr.

### 1102 Fiction Writing (Intro)

(Student Option No Audit; )

51718 003 LEC, 8:15- 9:30 TTh, Lind Hall 303, In Person Term Based; ; 3 cr.  
 48641 002 LEC, 14:30-15:20 MWF, Lind Hall 303, In Person Term Based; ; 3 cr.  
 46899 001 LEC, 18:20-20:50 M, Lind Hall 315, In Person Term Based; ; 3 cr.

### 1103 Poetry Writing (Intro)

(Student Option No Audit; )

48642 001 LEC, 18:20-20:50 M, Lind Hall 303, In Person Term Based; ; 3 cr.

### 1104 Journal, Essay, Memoir Writing (Introduction)

(Student Option No Audit; Prereq: Students not allowed to audit this course)

51804 002 LEC, 11:15-12:30 TTh, Lind Hall 303, In Person Term Based; ; 3 cr.

### 3102 Fiction Writing (Intermediate)

(Student Option No Audit; Prereq: [EngW 1101 OR 1102 OR 1103 OR 1104], students cannot audit course)

46900 001 LEC, 9:05- 9:55 MWF, Amundson Hall 104, In Person Term Based; ; 3 cr.  
 54314 003 LEC, 18:20-20:50 T, Amundson Hall 104, In Person Term Based; ; 3 cr.  
 48643 002 LEC, 9:45-11:00 TTh, Lind Hall 215, In Person Term Based; ; 3 cr.

### 3104 Poetry Writing (Intermediate)

(Student Option No Audit; Prereq: [1101 or 1102 or 1103 or 1104], students cannot audit course)

46901 001 LEC, 11:15-12:30 MW, Amundson Hall 104, In Person Term Based; ; 3 cr.

### 3106 Journal, Essay, Memoir Writing (Intermediate)

(Student Option No Audit; Prereq: [1101 or 1102 or 1103 or 1104], students cannot audit course)

51805 002 LEC, 11:15-12:30 TTh, Amundson Hall 104, In Person Term Based; ; 3 cr.

### 3110 Topics in Creative Writing

(Student Option No Audit; Prereq: 1101 or 1102 or 1103 or 1104 or dept consent)

57924 001 LEC, 9:45-11:00 TTh, Rapson Hall 13, In Person Term Based; M. Fitzgerald; 3 cr.

### 3960W Senior Seminar in Creative Writing

(A-F only; Prereq: Engl major, 6 cr of ENGW [including 3xxx appropriate for workshop genre], [jr or sr], major adviser approval, dept consentWI)

57906 002 LEC, 15:35-18:05 Th, Folwell Hall 5, In Person Term Based; Julie Schumacher; 4 cr.  
 47173 001 LEC, 15:35-18:05 T, Akerman Hall 215, In Person Term Based; Ramon Gonzalez; 4 cr.

### 5130 Topics in Advanced Creative Writing

(Student Option; Prereq: instr consent)

52999 001 LEC, 15:35-18:05 W, Amundson Hall 156, In Person Term Based; Meets With: 001 ENGL 5090; Peter Campion; 4 cr.

### 5205 Screenwriting

(Student Option No Audit; Prereq: [Jr or sr], one EngW 3xxx course, [permission number available in creative writing office], students may not audit this course.)

68719 001 LEC, 18:20-20:50 M, Ford Hall 127, In Person Term Based; Miriam Queensen; 4 cr.

### 5993 Directed Study in Writing

(Student Option; Prereq-instr consent, dept consent, college consent.)

47183 001 IND, In Person Term Based; 1-4 cr.  
 48981 002 IND, In Person Term Based; 1-4 cr.  
 55812 080 IND, In Person Term Based; 1-4 cr.  
 55813 081 IND, In Person Term Based; 1-4 cr.

### 8110 Seminar: Writing of Fiction

(Student Option; Prereq: dept consent)

53101 001 LEC, 15:35-18:05 T, Lind Hall 202, In Person Term Based; Charles Baxter; 4 cr.

### 8120 Seminar: Writing of Poetry

(Student Option; Prereq: dept consent)

53076 001 LEC, 15:35-18:05 W, Lind Hall 50, In Person Term Based; Ramon Gonzalez; 4 cr.

### 8130 Seminar: Writing of Literary Nonfiction

(Student Option; Prereq: dept consent)

50058 001 LEC, 15:35-18:05 Th, Lind Hall 216, In Person Term Based; ; 4 cr.

### 8170 MFA Practicum: EngW 1101W

(S-N only; Prereq: Creative writing MFA student, instr consent)

54307 001 FWK, 13:00-15:20 W, Akerman Hall 317, In Person Term Based; ; 1-3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49114 001 IND, In Person Term Based; 1 cr.

### 8990 MFA Creative Thesis

(Student Option; Prereq: 8140, 8150, 8160, creative writing MFA student, instr consent)

48982 002 IND, In Person Term Based; ; 2-8 cr.  
 48213 001 IND, In Person Term Based; Karen Frederickson; 2-8 cr.

## Entomology (ENT)

### 1905 Topics: Freshman Seminar

(Student Option; Prereq: Fr)

59007 001 LEC, 18:30-20:20 W, Hodson Hall 490, In Person Term Based; Leonard Ferrington; 1-3 cr.

### 4015 Ornamentals and Turf Entomology

(Student Option; Prereq: 1xxx course in biol or hort or forest resources)

50243 003 LAB, 11:45-12:35 Th, Hodson Hall 480, In Person Term Based; ; 3 cr.  
 49715 002 LAB, 11:45-12:35 T, Hodson Hall 480, In Person Term Based; ; 3 cr.  
 50196 001 LEC, 10:15-11:30 TTh, Hodson Hall 490, In Person Term Based; ; 3 cr.

### 4096 Professional Experience Program: Internship

(S-N or Audit; Prereq: COAFES jr or sr, complete internship contract available in COAFES Career Services before enrolling, UC only, instr consent)

51698 001 LEC, In Person Term Based; 1-3 cr.

### 5011 Insect Structure and Function

(A-F or Audit; )

61244 001 LEC, 9:35-11:30 MWF, Hodson Hall 485, In Person Term Based; Timothy Kurtti; 4 cr.  
 61245 002 LAB, 10:40-11:30 MWF, Hodson Hall 490, In Person Term Based; Timothy Kurtti; 4 cr.

### 5121 Applied Experimental Design

(Student Option; Prereq: Stat 5021 or equiv or instr consent)

52771 001 LEC, 13:30-14:45 MW, Hodson Hall 490, In Person Term Based; Meets With: 001 AGRO 5121; Nancy Jo Ehлке; 4 cr.  
 52772 002 DIS, 14:45-15:35 W, Hodson Hall 490, In Person Term Based; Meets With: 002 AGRO 5121; Nancy Jo Ehлке; 4 cr.

### 5341 Biological Control of Insects and Weeds

(Student Option; Prereq: 3001, Biol 1009, EEB 3001 or grad)

57016 003 LAB, 9:35-10:25 W, Hodson Hall 480, In Person Term Based; George Heimpel; 3-4 cr.  
 57015 002 LAB, 9:35-10:25 M, Hodson Hall 480, In Person Term Based; George Heimpel; 3-4 cr.  
 57014 001 LEC, 13:30-14:45 TTh, Hodson Hall 480, In Person Term Based; George Heimpel; 3-4 cr.

### 5361 Aquatic Insects

(A-F or Audit; Prereq: instr consent)

49735 001 LEC, 15:00-16:15 MW, Hodson Hall 485, In Person Term Based; Leonard Ferrington; 4 cr.  
 49736 002 LAB, 16:30-18:20 MW, Hodson Hall 485, In Person Term Based; Leonard Ferrington; 4 cr.

### 5900 Basic Entomology

(Student Option; Prereq: instr consent)

51809 101 LEC, In Person Term Based; 1-6 cr.  
 47135 105 LEC, In Person Term Based; Ann Fallon; 1-6 cr.  
 47134 103 LEC, In Person Term Based; Brian Aukema; 1-6 cr.  
 47133 102 LEC, In Person Term Based; David Andow; 1-6 cr.

47137 107 LEC, In Person Term Based; George Heimpel; 1-6 cr.  
 47143 113 LEC, In Person Term Based; Karen Mesce; 1-6 cr.  
 47146 116 LEC, In Person Term Based; Kenneth Ostlie; 1-6 cr.  
 47136 106 LEC, In Person Term Based; Leonard Ferrington; 1-6 cr.  
 47147 117 LEC, In Person Term Based; Marla Spivak; 1-6 cr.  
 49659 119 LEC, In Person Term Based; Paul Tinerella; 1-6 cr.  
 47138 108 LEC, In Person Term Based; Ralph Holzenthal; 1-6 cr.  
 50151 121 LEC, In Person Term Based; Robert Venette; 1-6 cr.  
 47144 114 LEC, In Person Term Based; Roger Moon; 1-6 cr.  
 47140 110 LEC, In Person Term Based; Stephen Kells; 1-6 cr.  
 50150 120 LEC, In Person Term Based; Susan Weller; 1-6 cr.  
 47142 112 LEC, In Person Term Based; Timothy Kurtti; 1-6 cr.  
 47145 115 LEC, In Person Term Based; Ulrike Munderloh; 1-6 cr.  
 47141 111 LEC, In Person Term Based; Vera Krischik; 1-6 cr.  
 47139 109 LEC, In Person Term Based; William Hutchison; 1-6 cr.

### 5910 Special Problems in Entomology

(Student Option; Prereq: instr consent)  
 47148 101 LEC, In Person Term Based; 1-6 cr.  
 47151 105 LEC, In Person Term Based; Ann Fallon; 1-6 cr.  
 47150 103 LEC, In Person Term Based; Brian Aukema; 1-6 cr.  
 47149 102 LEC, In Person Term Based; David Andrew; 1-6 cr.  
 47153 107 LEC, In Person Term Based; George Heimpel; 1-6 cr.  
 47159 113 LEC, In Person Term Based; Karen Mesce; 1-6 cr.  
 47162 116 LEC, In Person Term Based; Kenneth Ostlie; 1-6 cr.  
 47152 106 LEC, In Person Term Based; Leonard Ferrington; 1-6 cr.  
 47163 117 LEC, In Person Term Based; Marla Spivak; 1-6 cr.  
 49660 119 LEC, In Person Term Based; Paul Tinerella; 1-6 cr.  
 47154 108 LEC, In Person Term Based; Ralph Holzenthal; 1-6 cr.  
 50153 121 LEC, In Person Term Based; Robert Venette; 1-6 cr.  
 47160 114 LEC, In Person Term Based; Roger Moon; 1-6 cr.  
 47156 110 LEC, In Person Term Based; Stephen Kells; 1-6 cr.  
 50152 120 LEC, In Person Term Based; Susan Weller; 1-6 cr.  
 47158 112 LEC, In Person Term Based; Timothy Kurtti; 1-6 cr.  
 47161 115 LEC, In Person Term Based; Ulrike Munderloh; 1-6 cr.  
 47157 111 LEC, In Person Term Based; Vera Krischik; 1-6 cr.  
 47155 109 LEC, In Person Term Based; William Hutchison; 1-6 cr.

### 8006 Supervised Laboratory or Extension Teaching Experience

(A-F or Audit; Prereq: 3005 or equiv or instr consent)  
 51337 001 FWK, In Person Term Based; 1-3 cr.

### 8041 Advanced Insect Genetics

(Student Option; Prereq: [5011, basic genetics course] or instr consent; offered alt yrs)  
 56346 001 LEC, In Person Term Based; Ann Fallon; 2 cr.

### 8200 Colloquium in Social Insects

(Student Option; Prereq: 3020 or 3200)  
 53966 001 LEC, In Person Term Based; Marla Spivak; 1-3 cr.

### 8300 Graduate Seminar

(S-N or Audit; Prereq: instr consent)  
 47251 010 LEC, 15:00-16:55 T, Hodson Hall 495, In Person Term Based; Roger Moon; 1-2 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49115 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49214 001 IND, In Person Term Based; 1 cr.

### 8594 Research in Entomology

(S-N only; )  
 47798 101 LEC, In Person Term Based; 1-16 cr.  
 47801 104 LEC, In Person Term Based; Ann Fallon; 1-16 cr.  
 47800 103 LEC, In Person Term Based; Brian Aukema; 1-16 cr.

47799 102 LEC, In Person Term Based; David Andrew; 1-16 cr.  
 47802 105 LEC, In Person Term Based; George Heimpel; 1-16 cr.  
 47808 111 LEC, In Person Term Based; Karen Mesce; 1-16 cr.  
 47811 114 LEC, In Person Term Based; Kenneth Ostlie; 1-16 cr.  
 47812 115 LEC, In Person Term Based; Marla Spivak; 1-16 cr.  
 47813 116 LEC, In Person Term Based; Paul Tinerella; 1-16 cr.  
 47803 106 LEC, In Person Term Based; Ralph Holzenthal; 1-16 cr.  
 47815 118 LEC, In Person Term Based; Robert Venette; 1-16 cr.  
 47809 112 LEC, In Person Term Based; Roger Moon; 1-16 cr.  
 47805 108 LEC, In Person Term Based; Stephen Kells; 1-16 cr.  
 47814 117 LEC, In Person Term Based; Susan Weller; 1-16 cr.  
 47807 110 LEC, In Person Term Based; Timothy Kurtti; 1-16 cr.  
 47810 113 LEC, In Person Term Based; Ulrike Munderloh; 1-16 cr.  
 47806 109 LEC, In Person Term Based; Vera Krischik; 1-16 cr.  
 47804 107 LEC, In Person Term Based; William Hutchison; 1-16 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49303 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49401 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49524 001 IND, In Person Term Based; 1-24 cr.

## Entrepreneurship (ENTR)

### 6020 Business Formation

(A-F only; Prereq: MBA student)  
 58037 060 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-224, In Person Term Based; Allison Brimeyer; 4 cr.

### 6021 Preparing and Implementing the Business Plan

(A-F only; Prereq: MBA student)  
 68805 060 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-135, In Person Term Based; Allison Brimeyer; 2 cr.

### 6036 Managing the Growing Business

(A-F only; Prereq: MBA student)  
 50548 060 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-233, In Person Term Based; Allison Brimeyer; 2 cr.

### 6042 Implementing New Product Design and Business Development

(A-F only; Prereq: MBA student)  
 66425 060 LEC, 17:00-20:20 W, Hanson Hall, Room 1-109, In Person Term Based; Meets With: 001 ME 8222001 BMEN 8402; Vicki Lund; 4 cr.

## Environment Sci, Policy, Mgmt (ESPM)

### 1011 Issues in the Environment

(Student Option; ENV)  
 48105 001 LEC, 11:45-13:00 TTh, Green Hall 110, In Person Term Based; Joe Knight; 3 cr.

### 1012H Environmental Science and Society

(A-F only; Prereq: Honors student ENV)  
 56799 001 LEC, 14:30-15:20 MW, Bruininks Hall 131A, In Person Term Based; Robin Thomson; 3 cr.  
 57017 003 DIS, 11:15-12:05 F, Amundson Hall 156, In Person Term Based; Robin Thomson; 3 cr.

56800 002 DIS, 14:30-15:20 F, Amundson Hall 156, In Person Term Based; Robin Thomson; 3 cr.

### 1425 The Atmosphere

(A-F or Audit; Prereq: High school algebra ENV, PHYS)  
 47330 001 LEC, 15:35-16:25 MWF, Bruininks Hall 312, In Person Term Based; Meets With: 001 GEOG 1425; Tracy Twine; 4 cr.  
 53195 003 LAB, 16:40-17:30 W, Bruininks Hall 312, In Person Term Based; Meets With: 003 GEOG 1425; Tracy Twine; 4 cr.  
 51728 002 LAB, 16:40-17:30 M, Bruininks Hall 312, In Person Term Based; Meets With: 002 GEOG 1425; Tracy Twine; 4 cr.

### 1905 Freshman Seminar

(Student Option; )  
 53523 001 LEC, 13:55-14:45 M, Soils S415, In Person Term Based; 1-3 cr.

### 2021 Environmental Sciences: Integrated Problem Solving

(A-F or Audit; Prereq: 1011, ESPM major)  
 53505 001 LEC, 15:00-16:15 TTh, Biological Sciences Ctr 64, In Person Term Based; Kyungsoo Yoo; 3 cr.

### 3000 Seminar on Current Issues for ESPM

(A-F or Audit; Prereq: Jr prereq: Jr)  
 60961 002 LEC, 13:55-14:45 Th, Alderman Hall 415, In Person Term Based; Timothy Griffis; 1 cr.

### 3011W Ethics in Natural Resources

(Student Option; WI)  
 47544 001 LEC, 13:30-14:45 TTh, Hodson Hall 495, In Person Term Based; Robert Blair; 3 cr.

### 3012 Statistical Methods for Environmental Scientists and Managers

(A-F or Audit; Prereq: Two yrs of high school math MATH)  
 57819 001 LEC, 16:30-17:45 TTh, Green Hall 203, In Person Term Based; Thomas Burk; 4 cr.  
 57821 003 LAB, 16:05-18:00 W, Green Hall 210A, In Person Term Based; Thomas Burk; 4 cr.  
 57820 002 LAB, 16:05-18:00 W, Skok Hall 35, In Person Term Based; Thomas Burk; 4 cr.

### 3031 Applied Global Positioning Systems for Geographic Information Systems

(A-F or Audit; Prereq: Intro GIS course, [jr or sr])  
 51607 001 LEC, 13:55-15:50 W, Skok Hall 35, 13:55-14:45 T, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 5031; Andrew Jenks; 3 cr.

### 3072 Site Assessment for Ecological Restoration

(Student Option; )  
 60908 001 LEC, Online & Distance Lrng (ODL); 1 cr.

### 3073 Designing and Using Seed Mixes in Restoration

(Student Option; )  
 60909 001 LEC, Online & Distance Lrng (ODL); 1 cr.

### 3076 Monitoring Ecological Restorations

(Student Option; )  
 68481 001 LEC, In Person Term Based; 1 cr.

### 3111 Hydrology and Water Quality Field Methods

(A-F or Audit; )  
 50772 001 LEC, 15:00-18:00 Th, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 ESPM 5111; Joe Magner; 3 cr.

### 3131 Environmental Physics

(A-F or Audit; Prereq: Phys 1101)  
 51050 001 LEC, 10:15-11:30 TTh, Borlaug Hall 375, In Person Term Based; D Mulla; 3 cr.

### 3202W Environmental Conflict Management, Leadership, and Planning

(A-F or Audit; WI)  
 48503 001 LEC, 9:35-11:30 W, Plant Growth Facility 140A/B, 10:40-11:30 M, Plant Growth Facility 140A/B, In Person Term Based; Meets With: 001 ESPM 5202; Kristen Nelson; 3 cr.

### 3211 Survey, Measurement, and Modeling for Environmental Analysis

(Student Option; Prereq: [MATH 1031 or MATH 1051], [3012 or FW 4001 or STAT 3011 or SOC 3811], computer competency)  
57970 001 LEC, 8:45-10:00 TTh, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 5211; Alan Ek; 3 cr.

### 3221 Soil Conservation and Land-Use Management

(Student Option; Prereq: SOIL 1125 or 2125 or instr consent)  
47326 001 LEC, 8:30- 9:20 MW, Borlaug Hall 375, In Person Term Based; D Mulla; 3 cr.  
47327 002 DIS, 8:30- 9:20 F, Borlaug Hall 375, In Person Term Based; D Mulla; 3 cr.

### 3241W Natural Resource and Environmental Policy

(Student Option; CIV,WI,SOCs)  
47362 001 LEC, 10:15-11:30 TTh, Green Hall 110, In Person Term Based; Meets With: 001 ESPM 5241; Dennis Becker; 3 cr.

### 3261 Economics and Natural Resources Management

(A-F or Audit; Prereq: MATH 1031 or MATH 1051 or MATH 1142 or MATH 1155 or MATH 1271 or ESPM 3012 or STAT 3011 or Soc 3811 or equiv ENV,SOCs)  
67413 001 LEC, 11:45-13:40 MW, Green Hall 110, In Person Term Based; Meets With: 001 ESPM 5261; Mike Kilgore; 4 cr.

### 3480 Topics in Natural Resources

(Student Option; )  
55473 001 LEC, In Person Term Based; 1-4 cr.  
57426 504 LEC, Study Abroad; Stephan Carlson; 1-4 cr.

### 3575 Wetlands

(Student Option; )  
51546 001 LEC, 16:30-17:45 MW, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 ESPM 5575; Susan Galatowitsch; 3 cr.

### 3601 Sustainable Housing--Community, Environment, and Technology

(A-F or Audit; TS)  
48812 001 LEC, 16:30-17:45 MW, McNeal Hall 10, In Person Term Based; Meets With: 001 HSG 3482; 3 cr.

### 3602 Regulations and Corporate Environmental Management

(A-F only; Prereq: APEC 1101 or ECON 1101 or 3261W)  
53078 001 LEC, 16:00-18:30 M, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 ESPM 5602001 MGMT 3602; Susan Seltz; 3 cr.

### 3605 Recycling: Extending Raw Materials

(A-F only; TS)  
53167 001 LEC, 13:30-14:45 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 ESPM 5605; Brett Barney; 3 cr.

### 3607 Natural Resources Consumption and Sustainability

(A-F only; GP)  
48100 001 LEC, 10:40-11:55 MW, Borlaug Hall 335, In Person Term Based; Jason Hill; 3 cr.

### 3656 Composting and Organics Utilization

(A-F or Audit; Prereq: [SOIL 1125 or SOIL 2125], junior standing)  
60157 001 LEC, 16:30-17:45 MW, Soils S415, In Person Term Based; Thomas Halbach; 3 cr.

### 3703 Agroforestry in Watershed Management

(Student Option; )  
60498 001 LEC, 12:50-14:45 F, Green Hall 19, 12:50-13:40 W, Green Hall 19, In Person Term Based; Meets With: 001 ESPM 5703; Diomy Zamora; 3 cr.

### 4021W Problem Solving: Environmental Review

(Student Option; Prereq: ESPM 2021 and jr or srWI)  
47007 001 LEC, 13:30-14:45 MW, Kaufert Laboratory 302, In Person Term Based; Ed Nater; 4 cr.

### 4093 Directed Study

(Student Option; Prereq: instr consent)  
51041 001 LEC, In Person Term Based; Carl Rosen; 1-7 cr.  
53870 002 LEC, In Person Term Based; Claire Blesser; 1-7 cr.  
56026 005 LEC, In Person Term Based; Ed Nater; 1-7 cr.

55477 004 LEC, In Person Term Based; Joe Knight; 1-7 cr.  
58775 006 LEC, In Person Term Based; Kristen Nelson; 1-7 cr.  
53944 003 LEC, In Person Term Based; Terence Cooper; 1-7 cr.

### 4094 Directed Research

(Student Option; Prereq: instr consent)  
51042 001 LEC, In Person Term Based; Carl Rosen; 1-7 cr.  
58778 002 LEC, In Person Term Based; Joe Knight; 1-7 cr.  
58779 003 LEC, In Person Term Based; Kristen Nelson; 1-7 cr.

### 4096 Professional Experience Program: Internship

(A-F only; Prereq: CFANS undergrad, instr consent, completed internship contract)  
48106 001 FWK, 15:00-15:50 M, Hodson Hall 490, In Person Term Based; 1 cr.

### 4256 Natural Resource Law and the Management of Public Lands and Waters

(A-F or Audit; Prereq: 3241 or instr consent)  
53516 001 LEC, In Person Term Based; Meets With: 001 ESPM 5256; 3 cr.  
53517 002 DIS, In Person Term Based; Meets With: 002 ESPM 5256; 3 cr.

### 4607 Industrial Biotechnology and the Environment

(A-F only; Prereq: BIOL 1009, CHEM 1021)  
61064 001 LEC, 16:30-17:45 TTh, Borlaug Hall 365, In Person Term Based; Meets With: 001 ESPM 5607; Simo Sarkanen; 3 cr.

### 4811 Environmental Interpretation

(A-F or Audit; Prereq: Jr or sr or grad student)  
47878 001 LEC, 17:10-20:10 T, Green Hall 19, In Person Term Based; Meets With: 001 ESPM 5811; Stephan Carlson; 3 cr.

### 5031 Applied Global Positioning Systems for Geographic Information Systems

(A-F or Audit; Prereq: Grad student or instr consent)  
51608 001 LEC, 13:55-15:50 W, Skok Hall 35, 13:55-14:45 T, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 3031; Andrew Jenks; 3 cr.

### 5111 Hydrology and Water Quality Field Methods

(A-F or Audit; Prereq: Grad student or instr consent)  
50779 001 LEC, 15:00-18:00 Th, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 ESPM 3111; Joe Magner; 3 cr.

### 5202 Environmental Conflict Management, Leadership, and Planning

(A-F or Audit; Prereq: Grad or instr consent)  
48494 001 LEC, 9:35-11:30 W, Plant Growth Facility 140A/B, 10:40-11:30 M, Plant Growth Facility 140A/B, In Person Term Based; Meets With: 001 ESPM 3202W; Kristen Nelson; 3 cr.

### 5211 Survey, Measurement, and Modeling for Environmental Analysis

(Student Option; Prereq: Grad student or instr consent)  
57971 001 LEC, 8:45-10:00 TTh, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 3211; Alan Ek; 3 cr.

### 5241 Natural Resource and Environmental Policy

(Student Option; Prereq: Grad student or instr consent)  
48341 001 LEC, 10:15-11:30 TTh, Green Hall 110, In Person Term Based; Meets With: 001 ESPM 3241W; Dennis Becker; 3 cr.

### 5256 Natural Resource Law and the Management of Public Lands and Waters

(A-F or Audit; Prereq: 3241, [sr or grad student])  
53518 001 LEC, In Person Term Based; Meets With: 001 ESPM 4256; 3 cr.  
53519 002 DIS, In Person Term Based; Meets With: 002 ESPM 4256; 3 cr.

### 5261 Economics and Natural Resources Management

(A-F or Audit; Prereq: Grad student or instr consent)  
67414 001 LEC, 11:45-13:40 MW, Green Hall 110, In Person Term Based; Meets With: 001 ESPM 3261; Mike Kilgore; 4 cr.

### 5480 Topics in Natural Resources

(Student Option; )  
57427 504 LEC, Study Abroad; Stephan Carlson; 1-4 cr.

### 5575 Wetlands

(Student Option; Prereq: 3575, [sr or grad student or instr consent])  
59452 001 LEC, 16:30-17:45 MW, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 ESPM 3575; Susan Galatowitsch; 3 cr.

### 5601 Principles of Waste Management

(A-F or Audit; Prereq: 1125 or 2125, Biol 1002/1009 or Chem 1021, Stat 3011, ApEc 1101 or instr consent)  
50563 001 LEC, 13:30-14:45 TTh, Soils S415, In Person Term Based; Thomas Halbach; 3 cr.

### 5602 Regulations and Corporate Environmental Management

(A-F only; Prereq: APEC 1101 or ECON 1101)  
53079 001 LEC, 16:00-18:30 M, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 ESPM 3602001 MGMT 3602; Susan Seltz; 3 cr.

### 5605 Recycling: Extending Raw Materials Supplies

(A-F only; )  
53168 001 LEC, 13:30-14:45 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 ESPM 3605; Brett Barney; 3 cr.

### 5607 Industrial Biotechnology and the Environment

(A-F only; Prereq: BIOL 1009, CHEM 1021, grad student)  
61065 001 LEC, 16:30-17:45 TTh, Borlaug Hall 365, In Person Term Based; Meets With: 001 ESPM 4607; Simo Sarkanen; 3 cr.

### 5703 Agroforestry in Watershed Management

(Student Option; Prereq: Grad student or instr consent)  
67474 001 LEC, 12:50-14:45 F, Green Hall 19, 12:50-13:40 W, Green Hall 19, In Person Term Based; Meets With: 001 ESPM 3703; Diomy Zamora; 3 cr.

### 5811 Environmental Interpretation

(A-F or Audit; Prereq: Grad student or instr consent)  
50186 001 LEC, 17:10-20:10 T, Green Hall 19, In Person Term Based; Meets With: 001 ESPM 4811; Stephan Carlson; 3 cr.

## Experimental and Clinical Phar (ECP)

### 5220 Regulatory Issues in Drug Research

(Student Option; Prereq: ECP grad student or Pharm.D. professional student or instr consent)  
56000 001 LEC, In Person Term Based; Angela Birnbaum; 2 cr.

### 5620 Drug Metabolism and Disposition

(A-F or Audit; Prereq: Grad student or instr consent)  
51673 001 LEC, 8:00- 8:50 MWF, , In Person Term Based; Tim Tracy; 3 cr.

### 8100 Seminar

(Student Option; Prereq: ECP grad student or instr consent)  
50205 001 LEC, 12:15-13:05 W, , In Person Term Based; Jatinder Lamba; 1-2 cr.

### 8220 Experimental and Clinical Pharmacology

(Student Option; Prereq: SACP grad major (ECP track) or instr consent)  
55760 001 LEC, In Person Term Based; Angela Birnbaum; 3 cr.

### 8430 Advances in Pharmacometrics Modeling and Simulation

(S-N only; Prereq: Grad student in ECP or PHM or instr consent)  
56022 001 DIS, 11:15-12:05 M, , In Person Term Based; Richard Brundage; 1 cr.

### 8900 Advanced Topics in Experimental and Clinical Pharmacology

(Student Option; Prereq: ECP grad program or instr consent)

50204 001 IND, In Person Term Based; Richard Brundage; 1-4 cr.

### 8992 Directed Readings in Experimental and Clinical Pharmacology

(Student Option; )  
50206 001 IND, 8:00- 8:50 W, , In Person Term Based; Marnie Peterson; 1-2 cr.

### 8993 Directed Study in Experimental and Clinical Pharmacology

(Student Option; )  
52770 003 LEC, In Person Term Based; Ayman Noreddin; 1-4 cr.  
50360 004 LEC, In Person Term Based; Pamala Jacobson; 1-4 cr.  
53395 001 LEC, In Person Term Based; Richard Brundage; 1-4 cr.  
52734 002 LEC, In Person Term Based; Susan Marino; 1-4 cr.

## Family Med & Community Health (FMCH)

### 5564 Family Practice Seminar

(O-N or Audit; Prereq: MD or DO degree)  
47546 002 LEC, In Person Term Based; Elizabeth Greene; 1 cr.

### 5950 Clinical Issues in Human Sexuality

(O-N or Audit; Prereq: Enrollment in health sci grad programs in CSPP, Psy, PubH, SW or FSos or instr consent)  
47770 002 LEC, In Person Term Based; Eli Coleman; 2 cr.

### 5955 Directed Study

(O-N or Audit; Prereq: instr consent; qualified students may arrange for work on a tutorial basis)  
47547 002 IND, In Person Term Based; Elizabeth Greene; 1-10 cr.

### 7500 Sub-internship in Family Medicine

(H-N or Audit; Prereq: MED 7500 or PED 7501)  
52359 001 FWK, In Person Term Based; H. Peter Cao; 2-4 cr.

### 7501 Rural Physician Associate Program (RPAP)

(H-N or Audit; Prereq: Med 7500, Obst 7500, USMLE Step 1 Passing Score)  
50015 003 FWK, In Person Term Based; Judith Hillstrom; 2-6 cr.  
48088 002 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; Kathleen Brooks; 2-6 cr.  
50016 004 FWK, In Person Term Based; Kathleen Brooks; 2-6 cr.

### 7502 Rural Physician Associate Program (RPAP): Orthopaedic Surgery

(P-N or Audit; Prereq: 7501, RPAP student)  
51120 001 FWK, In Person Term Based; 2-4 cr.

### 7503 Preceptorship in Family Medicine

**Obstetrics**  
(H-N or Audit; )  
48527 017 FWK, In Person Term Based; H. Peter Cao; 2-4 cr.

### 7504 Rural Physician Associate Program (RPAP): Surgery

(H-N or Audit; Prereq: Med 7500, Obst 7500, USMLE Step 1 Passing Score)  
50331 001 FWK, In Person Term Based; 6 cr.

### 7505 Rural Physician Associate Program (RPAP): Obstetrics and Gynecology

(H-N or Audit; Prereq: 7501)  
50332 001 FWK, In Person Term Based; 6 cr.

### 7506 Rural Physician Associate Program (RPAP): Pediatrics

(H-N or Audit; Prereq: 7501)  
50333 001 FWK, In Person Term Based; 6 cr.

### 7507 Rural Physician Associate Program (RPAP): Otolaryngology

(P-N or Audit; )

50334 001 FWK, In Person Term Based; 2-4 cr.

### 7508 Rural Physician Associate Program (RPAP): Urology

(P-N or Audit; )  
50335 001 FWK, In Person Term Based; 2-4 cr.

### 7509 Rural Physician Associate Program (RPAP): Primary Care Clerkship I

(H-N or Audit; Prereq: 7501)  
50336 001 FWK, In Person Term Based; 4 cr.

### 7510 Rural Physician Associate Program (RPAP): Primary Care Clerkship II

(H-N or Audit; Prereq: 7509)  
50337 001 FWK, In Person Term Based; 4 cr.

### 7511 Urban Community Ambulatory Medicine (UCAM)

(H-N or Audit; Prereq: FMCH 7600 and FMCH 7700)  
48089 002 FWK, In Person Term Based; H. Peter Cao; 4 cr.

### 7512 Urban Community Ambulatory Medicine (UCAM)

(H-N or Audit; Prereq: 7511, InMd 5508, InMd 7509)  
48528 002 FWK, In Person Term Based; 4 cr.

### 7515 RPAP: Emergency Medicine

(H-N only; )  
53349 001 FWK, In Person Term Based; 4 cr.

### 7516 Research in Human Sexuality

(H-N or Audit; )  
48090 004 IND, In Person Term Based; H. Peter Cao; 6 cr.

### 7518 Inpatient Family Medicine

(H-N or Audit; Prereq: FMCH 7600 or FMCH 7523; and MED 7500)  
48091 011 FWK, In Person Term Based; H. Peter Cao; 2-4 cr.

### 7519 Clinical Practice of Occupational Medicine

(H-N or Audit; )  
49661 001 FWK, 8:00-17:00 MTWThF, , In Person Term Based; 2-4 cr.

### 7520 Rural Rotation in Family Medicine

(H-N or Audit; )  
48092 011 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; H. Peter Cao; 3-6 cr.

### 7523 Family Medicine Clerkship: Duluth

(H-N or Audit; )  
48093 006 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; Jacob Prunuske; 2-6 cr.

### 7524 Rotation in Palliative Medicine and Hospice

(H-N or Audit; )  
53350 001 FWK, In Person Term Based; H. Peter Cao; 2-3 cr.

### 7525 Cardiovascular Medicine in the Community Hospital

(H-N or Audit; Prereq: Med 7500)  
48094 011 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; H. Peter Cao; 2-6 cr.

### 7530 Preceptorship in Community Family Medicine

(H-N or Audit; )  
51703 001 FWK, In Person Term Based; H. Peter Cao; 2-4 cr.

### 7531 Introduction to Healthcare for the Underserved

(H-N or Audit; )  
48095 011 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; H. Peter Cao; 2-6 cr.

### 7535 Community Health in Family Medicine

(H-N or Audit; Prereq: At least two six-week rotations in medicine or pediatrics or obstetrics or surgery)  
48604 001 FWK, 8:00-17:00 MTWThFSaSu, , In Person Term Based; Abby Kirschner; 3-5 cr.

### 7537 Primary Care Sports Medicine

(H-N or Audit; )

52360 001 FWK, In Person Term Based; H. Peter Cao; 3-4 cr.

### 7538 Sports Medicine in Duluth

(H-N or Audit; Prereq: Duluth site: call dept of family medicine at 218-726-7916 at least one month before cancel/add deadline)  
52361 001 FWK, In Person Term Based; H. Peter Cao; 4 cr.

### 7544 Outpatient: HIV Management in Family Medicine

(H-N or Audit; Prereq: Med 7500)  
49662 001 FWK, 8:00-17:00 MTWThF, , In Person Term Based; H. Peter Cao; 2-3 cr.

### 7560 Alcohol and Drug Addiction Treatment Center

(H-N or Audit; )  
48096 007 FWK, In Person Term Based; Gregory Amer; 2-3 cr.

### 7585 Sexual Problems in Clinical Practice

(H-N or Audit; )  
48097 011 FWK, In Person Term Based; H. Peter Cao; 2-6 cr.

### 7595 Research in Family Medicine

(H-N or Audit; Prereq: Written project proposal approved by [faculty adviser, course director])  
48098 008 IND, In Person Term Based; H. Peter Cao; 2-6 cr.

### 7599 Independent Study

(H-N or Audit; Prereq: [Written agreement with adviser that states project objectives, methodology, evaluation procedures, duration, credits, grading system], instr consent)  
54039 001 ROT, In Person Term Based; H. Peter Cao; 2-6 cr.

### 7600 Family Medicine Four-Week Clerkship

(H-N only; )  
55536 001 ROT, 8:00-14:30 W, , In Person Term Based; H. Peter Cao; 4 cr.

### 7700 Clerkship: Family Medicine Primary Care Selective

(P-N only; Prereq: 3rd or 4th year medical student.)  
55497 001 ROT, 8:30-13:30 F, , 9:00-10:30 M, , In Person Term Based; Meets With: 001 MED 7700001 MED 7701001 PED 7700; Sally Berryman; 4 cr.

### 7910 Family Medicine Med Residency

(No Grade Associated; )  
56674 001 FWK, In Person Term Based; Joseph Brocato; 6 cr.

### 7930 Family Medicine Med Fellowship

(No Grade Associated; )  
56675 001 FWK, In Person Term Based; 6 cr.

## Family Social Science (FSOS)

### 1101 Intimate Relationships

(Student Option; SOCS)  
50169 005 DIS, 14:30-16:25 Th, Peik Hall 225, In Person Term Based; Meets With: 006 FSOS 1101; Tai Mendenhall; 4 cr.  
67595 006 DIS, 14:30-16:25 Th, Peik Hall 225, In Person Term Based; Meets With: 005 FSOS 1101; Tai Mendenhall; 4 cr.  
47232 001 LEC, 14:30-16:25 T, Smith Hall 100, In Person Term Based; Tai Mendenhall; 4 cr.  
47235 004 DIS, 14:30-16:25 Th, Appleby Hall 11, In Person Term Based; Tai Mendenhall; 4 cr.  
47234 003 DIS, 14:30-16:25 Th, Appleby Hall 3, In Person Term Based; Tai Mendenhall; 4 cr.  
47233 002 DIS, 14:30-16:25 Th, Appleby Hall 303, In Person Term Based; Tai Mendenhall; 4 cr.

### 1201 Human Development in Families: Lifespan

(Student Option; DSJ,SOCS)  
56055 001 LEC, 10:10-12:05 TTh, Peik Gymnasium G55, In Person Term Based; Lindsey Weiler; 4 cr.

### 1301 Cash or Credit: You Need to Know

(A-F or Audit; )  
52386 001 LEC, Completely Online; Virginia Solis Zuiker; 1 cr.

### 2101 Preparation for Working With Families

(A-F or Audit; )

54796 001 LEC, Completely Online; William Goodman; 2 cr.

**2103 Family Policy**

(Student Option; )

52368 001 LEC, 8:45-10:00 TTh, McNeal Hall 144, In Person Term Based; Beth Magistad; 3 cr.

**2105 Methods in Family Research**

(Student Option; Prereq: STAT 3011 or PSTL 1004 or STAT 1001 or ESPY 3264 or SOC 3811 or SOC 2550 or PSY 3801 or instr consent)

52369 001 LEC, 10:15-11:30 TTh, Hodson Hall 495, In Person Term Based; Martha Rueter; 3 cr.

**3101 Personal and Family Finances**

(Student Option; Prereq: FSOS 4106 is a recommended prerequisite for this course.)

47240 001 LEC, Completely Online; Virginia Solis Zuiker; 3 cr.

**3102 Family Systems and Diversity**

(Student Option; Prereq: At least soph or instr consentDSJ,SOC)

47236 001 LEC, Completely Online; 3 cr.  
56585 002 LEC, 13:30-14:45 TTh, Hodson Hall 490, In Person Term Based; Zha Xiong; 3 cr.**3104 Global and Diverse Families**

(Student Option; Prereq: at least Soph or instr consentGP,SOC)

52370 001 LEC, 18:00-20:45 T, Borlaug Hall 365, Partially Online; Catherine Solheim; 3 cr.

**3426 Alcohol and Drugs: Families and Culture**

(Student Option; )

47252 001 LEC, Completely Online; Meets With: 001 FSOS 5426; Patrick Cheek; 3 cr.

**3429 Counseling Skills Practicum I**

(Student Option; )

54120 001 LEC, 16:30-17:45 TTh, McNeal Hall 395, In Person Term Based; Meets With: 001 FSOS 5429; Cynthia Meyer; 3 cr.  
59889 002 LEC, 8:45-10:00 MW, Magrath Library 8, In Person Term Based; Cynthia Meyer; 3 cr.**4101 Sexuality and Gender in Families and Close Relationships**

(Student Option; Prereq: At least jr or instr consent)

50170 001 LEC, Completely Online; Cynthia Meyer; 3 cr.

**4104W Family Psychology**

(Student Option; Prereq: At least jr or instr consentWI)

54121 002 LEC, 13:30-14:45 TTh, McNeal Hall 144, In Person Term Based; Steven Harris; 3 cr.  
50097 001 LEC, 10:15-11:30 MW, McNeal Hall 144, In Person Term Based; Timothy Piehler; 3 cr.**4106 Family Resource Management**

(Student Option; )

67590 001 LEC, 13:30-14:45 MW, McNeal Hall 144, In Person Term Based; Beth Magistad; 3 cr.

**4152 Gay, Lesbian, and Bisexual People in Families**

(Student Option; Prereq: At least jr or instr consent)

51198 001 LEC, 16:30-19:15 W, Ruttan Hall B25, In Person Term Based; Sara Axtell; 3 cr.

**4154W Families and Aging**

(Student Option; Prereq: At least jr or instr consentWI)

50488 001 LEC, 16:30-17:45 TTh, McNeal Hall 33, In Person Term Based; 3 cr.

**4155 Parent-Child Relationships**

(A-F or Audit; Prereq: At least jr or instr consent)

59028 002 LEC, 11:45-13:00 TTh, McNeal Hall 10, In Person Term Based; Beth Magistad; 3 cr.  
48817 001 LEC, 8:45-10:00 MW, McNeal Hall 144, In Person Term Based; Susan Walker; 3 cr.**4296 Field Study: Working With Families**

(S-N or Audit; Prereq: 2101 or instr consent)

47217 001 FWK, Primarily Online; William Goodman; 1-12 cr.

**5150 Special Topics in Family Social Science**

(Student Option; )

58376 001 LEC, 15:00-17:45 M, McNeal Hall 146, In Person Term Based; 1-4 cr.

**5426 Alcohol and Drugs: Families and Culture**

(Student Option; )

57758 001 LEC, Completely Online; Meets With: 001 FSOS 3426; Patrick Cheek; 3 cr.

**5429 Counseling Skills Practicum I**

(Student Option; )

57759 001 LEC, 16:30-17:45 TTh, McNeal Hall 395, In Person Term Based; Meets With: 001 FSOS 3429; Cynthia Meyer; 3 cr.

**5937 Parent-Child Interaction**

(A-F only; )

57767 001 LEC, 20:00-20:50 Th, ONLINE, Completely Online; Heather Cline; 3 cr.

**5942 Everyday Experiences of Families**

(A-F only; )

57768 001 LEC, 19:00-19:50 M, ONLINE, Completely Online; Brooklyn Hofstad; 2 cr.

**5943 Parent Learning and Development: Implications for Parent Education**

(A-F only; )

57769 001 LEC, 20:00-20:50 T, ONLINE, Completely Online; Heather Cline; 2 cr.

**5946 Assessment and Evaluation in Parent Education**

(A-F only; Prereq: 5943, 5944, or instr consent)

57770 001 LEC, 19:00-19:50 T, ONLINE, Completely Online; Susan Walker; 2 cr.

**5949 Student Teaching in Parent Education**

(A-F only; Prereq: Application for student teaching; FSOS 5937, 5942, 5943, 5944, 5945.)

57771 001 FWK, 20:00-20:50 W, ONLINE, Completely Online; Heather Cline; 2 cr.

**8002 Advanced Family Conceptual Frameworks**

(A-F only; Prereq: 8001 or instr consent)

59846 001 DIS, 16:30-19:15 W, McNeal Hall 375, In Person Term Based; Catherine Solheim; 3 cr.

**8013 Qualitative Family Research Methods**

(A-F only; )

59847 001 LEC, 8:45-11:30 M, McNeal Hall 375, In Person Term Based; Tai Mendenhall; 3 cr.

**8101 Family Stress, Coping, and Adaptation**

(Student Option; Prereq: 8001 or equiv, research methods course)

67635 001 LEC, 13:30-16:15 M, McNeal Hall 375, In Person Term Based; William Doherty; 3 cr.

**8104 Family Policy Seminar**

(Student Option; )

67636 001 LEC, 13:30-16:15 T, McNeal Hall 375, In Person Term Based; Gerald August; 3 cr.

**8151 Preparation for Independent Teaching in Family Studies**

(S-N only; Prereq: instr consent)

56525 001 FWK, 11:30-13:00 M, McNeal Hall 375, In Person Term Based; Cynthia Meyer; 1 cr.

**8295 Couple/Marriage Family Therapy Practicum**

(S-N only; Prereq: FSOS doctoral student enrolled in Couple Family Therapy (CFT) or instr consent)

47256 001 FWK, 18:00-21:00 M, McNeal Hall 377, In Person Term Based; Tai Mendenhall; 1-12 cr.

**8296 Couple/ Marriage Family Therapy Internship**

(S-N only; Prereq: FSOS doctoral student enrolled in Couple Family Therapy (CFT) or instr consent)

47258 001 FWK, In Person Term Based; Steven Harris; 1-12 cr.

**8297 Supervision of Supervision**

(S-N or Audit; Prereq: MFT student, instr consent)

49790 001 FWK, In Person Term Based; Steven Harris; 1-3 cr.

**8560 Advanced Clinical Topics in Marriage and Family Therapy**

(A-F or Audit; Prereq: FSOS PhD student or instr consent)

67651 001 LEC, 10:15-13:00 T, McNeal Hall 375, In Person Term Based; Elizabeth Wieling; 1-6 cr.

**Finance (FINA)****3001 Finance Fundamentals**

(A-F or Audit; Prereq: ACCT 2050, OMS 2550)

48690 006 LEC, 8:15-9:30 WF, Hanson Hall, Room 1-104, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
50551 020 LEC, 17:45-20:15 W, Hanson Hall, Room 1-104, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
58232 007 LEC, 14:30-15:45 MW, Hanson Hall, Room 1-108, In Person Term Based; Lisa Kline; 3 cr.  
48186 002 LEC, 9:45-11:00 TTh, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
54069 001 LEC, 8:15-9:30 MW, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
54514 005 LEC, 13:00-14:15 TTh, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
48187 003 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-104, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
48188 004 LEC, 14:30-15:45 TTh, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 3 cr.**4121 Financial Markets and Interest Rates**

(A-F or Audit; Prereq: 3001, CSOM major)

56396 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Deb Cross; 2 cr.  
48274 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-114, In Person Term Based; Irene Kawalec-Menasco; 2 cr.**4121H Financial Markets and Interest Rates**

(A-F only; Prereq: 3001, CSOM major, honors)

59826 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-219, In Person Term Based; Rick Nelson; 2 cr.

**4122 Banking Institutions**

(A-F or Audit; )

56902 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Deb Cross; 2 cr.  
48275 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-114, In Person Term Based; Irene Kawalec-Menasco; 2 cr.**4221 Principles of Corporate Finance**

(A-F only; Prereq: 3001, CSOM major, actuarial science major)

58523 003 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Aamir Khan; 2 cr.  
55336 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
55337 001 LEC, 14:30-16:10 TTh, Hanson Hall, Room 1-111, In Person Term Based; Irene Kawalec-Menasco; 2 cr.**4242W Corporate Investment Decisions**

(A-F or Audit; Prereq: 3001, 4121 or 4121H, 4321 or 4321H, 4422, 4522, CSOM majorWI)

57693 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt L-118, In Person Term Based; Deb Cross; 4 cr.  
56385 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-118, In Person Term Based; Deb Cross; 4 cr.  
58233 003 LEC, 9:55-11:35 TTh, Carlson School of Mgmt L-118, In Person Term Based; John Molloy; 4 cr.**4321 Portfolio Management and Performance Evaluation**

(A-F or Audit; Prereq: 3001, CSOM major, can take concurrent registration is required (or allowed) in 4522)

55570 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Deb Cross; 2 cr.  
53534 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Irene Kawalec-Menasco; 2 cr.**4321H Portfolio Management and Performance Evaluation**

(A-F only; Prereq: 3001, CSOM major, honors)

59827 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-219, In Person Term Based; Frederico Belo; 2 cr.

**4325 Behavioral Finance**

(A-F only; Prereq: 4321 or 4321H)

58261 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-114, In Person Term Based; Aamir Khan; 2 cr.  
67154 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-114, In Person Term Based; Aamir Khan; 2 cr.**4329 Security Analysis Capstone**

(A-F only; Prereq: 4121 or 4121H, 4321 or 4321H, 4422, 4522, ACCT 5100 or ACCT 5101)  
55338 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt  
1-132, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 4422 Financial Modeling

(A-F only; Prereq: 3001, 4221, ACCT 5100 or 5101, CSOM major)  
60415 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
1-135, In Person Term Based; Cassie Visser; 2 cr.  
55340 002 LEC, 9:55-11:35 MW, Carlson School of Mgmt  
1-132, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
55339 003 LEC, 11:50-13:30 MW, Carlson School of Mgmt  
1-132, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 4522 Options & Derivatives I

(A-F only; Prereq: 3001, 4121 or 4121H, 4321 (can be concurrent) or 4321H (can be concurrent), CSOM major)  
55341 002 DIS, 13:45-15:25 MW, Carlson School of Mgmt  
1-132, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
55342 003 DIS, 15:45-17:25 MW, Carlson School of Mgmt  
1-123, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
55343 001 DIS, 9:55-11:35 MW, Carlson School of Mgmt  
2-215, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 4529 Derivatives II Capstone

(A-F only; Prereq: 4522 or 4523)  
58931 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt  
1-135, In Person Term Based; Aamir Khan; 2 cr.

#### 4621 The Global Economy (Macro)

(A-F only; Prereq: 3001, CSOM major)  
55345 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt  
1-123, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
55344 001 LEC, 8:00-9:40 MW, Carlson School of Mgmt  
1-135, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 4622 International Finance

(A-F only; Prereq: CSOM major, 3001, 4121 or 4121H, 4221)  
58144 002 LEC, 9:55-11:35 MW, Carlson School of Mgmt  
1-135, In Person Term Based; Juliana Salomao; 2 cr.  
60456 001 LEC, 8:00-9:40 MW, Carlson School of Mgmt  
2-215, In Person Term Based; Juliana Salomao; 2 cr.

#### 6121 Debt Markets, Interest Rates, and Hedging

(A-F only; Prereq: MBA 6230, MBA student)  
48277 060 LEC, 17:45-21:05 M, Carlson School of Mgmt  
1-135, In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
48276 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt  
L-114, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 6122 Financial Management of Depository Institutions

(A-F only; Prereq: MBA 6230, MBA student)  
60051 060 LEC, 17:45-21:05 T, Carlson School of Mgmt  
2-233, In Person Term Based; Helen Moser; 2 cr.

#### 6222 Mergers and Acquisitions

(A-F only; Prereq: 6241, MBA Student)  
58578 060 LEC, 17:45-21:05 T, Carlson School of Mgmt  
2-224, In Person Term Based; Gerald Caruso; 2 cr.

#### 6241 Corporate Finance Analysis and Decisions

(A-F only; Prereq: MBA 6230, MBA student)  
49541 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt  
1-132, In Person Term Based; Irene Kawalec-Menasco; 4 cr.  
51173 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
2-224, In Person Term Based; Irene Kawalec-Menasco; 4 cr.  
48546 090 LEC, 17:45-21:05 W, Carlson School of Mgmt  
L-122, In Person Term Based; Irene Kawalec-Menasco; 4 cr.

#### 6322 Financial Modeling

(A-F only; Prereq: MBA 6230, MBA student)  
51513 001 LEC, 9:55-11:35 TTh, Hanson Hall, Room 1-105,  
In Person Term Based; Irene Kawalec-Menasco; 2 cr.  
51055 090 LEC, 17:45-21:05 W, Hanson Hall, Room 1-105,  
In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 6324 Securitization Markets

(A-F only; Prereq: 6121, MBA student)  
58577 060 LEC, 17:45-21:05 T, Carlson School of Mgmt  
2-224, In Person Term Based; Corey Redfield; 2 cr.

#### 6325 Behavioral Finance

(A-F only; Prereq: MBA student)  
58454 060 LEC, 17:45-21:05 M, Carlson School of Mgmt  
1-143, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

#### 6341 World Economy

(A-F only; Prereq: MBA 6230, MBA student)  
50086 060 LEC, 17:45-21:05 Th, Hanson Hall, Room 1-103,  
In Person Term Based; Irene Kawalec-Menasco; 4 cr.

#### 6522 Introduction to Derivatives and Financial Risk Management

(A-F only; Prereq: 6121, MBA student)  
67158 060 LEC, 17:45-21:05 W, Carlson School of Mgmt  
1-143, In Person Term Based; Hengjie Ai; 2 cr.

#### 6529 Advanced Topics in Fixed Income and Derivatives

(A-F only; Prereq: [6522 (formerly FINA 6622) or 6622], MBA student (credit will not be granted if already received for 6541))  
58930 060 LEC, 17:45-21:05 W, Carlson School of Mgmt  
1-132, In Person Term Based; Cassie Visser; 2 cr.

#### 6621 International Financial Management

(A-F only; Prereq: MBA 6230, MBA student)  
58678 060 LEC, 17:45-21:05 T, Carlson School of Mgmt  
1-142, In Person Term Based; Deb Cross; 2 cr.

#### 6801 Finance Independent Study

(Student Option; Prereq: MBA student, instr consent)  
53261 001 LEC, In Person Term Based; Irene Kawalec-Menasco; 1-6 cr.

#### 8822 Empirical Methods in Finance

(Student Option; Prereq: 8802, 8803)  
67159 001 LEC, In Person Term Based; Cassie Visser; 2 cr.

#### 8823 Empirical Corporate Finance

(Student Option; Prereq: 8802, 8803)  
67160 001 LEC, In Person Term Based; Cassie Visser; 2 cr.

#### 8890 Seminar: Finance Topics

(A-F only; Prereq: [8802, 8812, 8822, 8823] or equiv, business admin student) or instr consent.)  
60425 001 LEC, In Person Term Based; Cassie Visser; 2-4 cr.

#### 8892 Independent Study in Finance

(Student Option; Prereq: Business admin PhD student or instr consent)  
50356 001 IND, In Person Term Based; Irene Kawalec-Menasco; 1-8 cr.

#### 8894 Directed Research in Finance

(Student Option; Prereq: Business admin PhD student specializing in finance or instr consent)  
46816 001 IND, In Person Term Based; Irene Kawalec-Menasco; 1-8 cr.

### Financial Mathematics (FM)

#### 5002 Preparation for Financial Mathematics II

(Student Option; Prereq: 5001, program director approval)  
56794 002 LEC, Completely Online; Kaisa Taipale; 3 cr.  
54040 001 LEC, 17:30-20:00 W, Vincent Hall 113, In Person Term Based; Kaisa Taipale; 3 cr.

#### 5012 Mathematical Background for Finance II

(Student Option; Prereq: 5011, grad MFM major, program director approval)  
54041 001 LEC, 17:30-20:50 Th, Vincent Hall 16, In Person Term Based; Christopher Bemis; 4 cr.

#### 5022 Mathematical Theory Applied to Finance II

(Student Option; Prereq: 5021, [5012 or concurrent registration is required (or allowed) in 5012], grad MFM major, program director approval)  
54043 001 LEC, 17:30-20:50 T, Vincent Hall 16, In Person Term Based; Carlos Tolmasky; 4 cr.

#### 5032 A Practitioner's Course in Finance II

(Student Option; Prereq: 5031, [5022 or concurrent registration is required (or allowed) in 5022], grad MFM major, program director approval)  
54044 001 LEC, 17:30-20:50 W, Vincent Hall 16, In Person Term Based; John Dodson; 4 cr.

#### 5092 Computation, Algorithms, and Coding in Finance II

(Student Option; Prereq: 5091, grad MFM major, program director approval)  
56795 002 LEC, Completely Online; Christopher Prouty; 4 cr.  
54042 001 LEC, 17:30-21:00 M, Bruininks Hall 420B, In Person Term Based; Christopher Prouty; 4 cr.

### Finnish (FIN)

#### 1002 Beginning Finnish II

(Student Option; Prereq: 1001)  
47379 001 DIS, 14:30-15:20 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 001 FIN 4002; Daniel Karvonen; 5 cr.

#### 1004 Intermediate Finnish II

(Student Option; Prereq: 1003)  
49610 001 DIS, 16:40-18:45 TTh, Folwell Hall 8, In Person Term Based; Meets With: 001 FIN 4004; Daniel Karvonen; 5 cr.

#### 3012 Advanced Finnish

(Student Option; Prereq: 3011 or 4011)  
55225 001 DIS, 16:00-17:15 MW, Folwell Hall 118, In Person Term Based; Meets With: 001 FIN 4012; Daniel Karvonen; 3 cr.

#### 4002 Beginning Finnish II

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
48447 001 DIS, 14:30-15:20 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 001 FIN 1002; Daniel Karvonen; 2 cr.

#### 4004 Intermediate Finnish II

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
49611 001 DIS, 16:40-18:45 TTh, Folwell Hall 8, In Person Term Based; Meets With: 001 FIN 1004; Daniel Karvonen; 2 cr.

#### 4012 Advanced Finnish

(Student Option; Prereq: Grad student)  
57953 001 DIS, 16:00-17:15 MW, Folwell Hall 118, In Person Term Based; Meets With: 001 FIN 3012; Daniel Karvonen; 2 cr.

### Fisheries and Wildlife (FW)

#### 2003 Introduction to Marine Biology

(Student Option; Prereq: BIOL 1001 or BIOL 1009 or BIOL 2002 or ESCI 1006 or ESCI 1106 or instr consent)  
53584 001 LEC, 12:50-13:40 MWF, Hodson Hall 495, In Person Term Based; Peter Sorensen; 3 cr.

#### 3565 Fisheries and Wildlife Ecology and Management: Field Trip

(A-F only; Prereq: instr consent)  
47697 001 FWK, In Person Term Based; 2 cr.

#### 3925 Human Dimensions of Fisheries and Wildlife Management

(A-F only; )  
60834 001 LEC, 17:10-18:25 TTh, Hodson Hall 490, In Person Term Based; Lou Cornicelli; 3 cr.

#### 4101 Herpetology

(Student Option; Prereq: BIOL 1001 or BIOL 2012)  
58122 001 LEC, 11:45-12:35 MWF, Hodson Hall 490, In Person Term Based; 4 cr.  
58125 003 LAB, 12:50-14:45 W, Ecology Building 160, In Person Term Based; 4 cr.  
58123 002 LAB, 12:50-14:45 M, Ecology Building 160, In Person Term Based; 4 cr.

#### 4102 Principles of Conservation Biology

(Student Option; Prereq: introductory biology course ENV)  
53080 001 LEC, In Person Term Based; 3 cr.

#### 4103 Principles of Wildlife Management



(Student Option; Prereq: Intro biology course, [jr or sr])  
53487 001 LEC, 13:30-14:45 TTh, Borlaug Hall 335, In Person Term Based; Seth Stapleton; 3 cr.

#### 4291 Independent Study: Fisheries

(Student Option; Prereq: instr consent)  
47628 001 IND, In Person Term Based; 1-5 cr.  
47631 004 IND, In Person Term Based; 1-5 cr.  
49497 009 IND, In Person Term Based; 1-5 cr.  
51103 011 IND, In Person Term Based; 1-5 cr.  
53362 013 IND, In Person Term Based; 1-5 cr.  
49496 007 IND, In Person Term Based; Andrew Simons; 1-5 cr.  
50080 010 IND, In Person Term Based; Bruce Vondracek; 1-5 cr.  
47630 003 IND, In Person Term Based; David Fulton; 1-5 cr.  
50556 006 IND, In Person Term Based; Jim Perry; 1-5 cr.  
51217 012 IND, In Person Term Based; Kristen Nelson; 1-5 cr.  
57021 014 IND, In Person Term Based; Paul Venturelli; 1-5 cr.  
47632 008 IND, In Person Term Based; Peter Sorensen; 1-5 cr.  
48575 005 IND, In Person Term Based; Raymond Newman; 1-5 cr.  
47629 002 IND, In Person Term Based; Yosef Cohen; 1-5 cr.

#### 4301 Conservation Genetics

(A-F or Audit; Prereq: BIOL 1009 General Biology, GCD 3002 Genetics)  
68479 001 LEC, 10:15-11:30 TTh, Ruttan Hall B30, In Person Term Based; Kenneth Kozak; 3 cr.

#### 4391 Independent Study: Wildlife

(Student Option; Prereq: instr consent)  
47623 002 IND, In Person Term Based; David Andersen; 1-5 cr.  
47626 005 IND, In Person Term Based; David Fulton; 1-5 cr.  
47625 004 IND, In Person Term Based; Francesca Cuthbert; 1-5 cr.  
50357 001 IND, In Person Term Based; James Forester; 1-5 cr.  
47627 007 IND, In Person Term Based; Karen Oberhauser; 1-5 cr.  
51218 008 IND, In Person Term Based; Kristen Nelson; 1-5 cr.  
48684 006 IND, In Person Term Based; Ralph Gutierrez; 1-5 cr.  
52517 009 IND, In Person Term Based; Todd Arnold; 1-5 cr.  
47624 003 IND, In Person Term Based; Yosef Cohen; 1-5 cr.

#### 5051 Analysis of Populations

(Student Option; Prereq: [4001 or STAT 3011 or ESPM 3012], [BIOL 3407 or BIOL 3408W or BIOL 3807], Senior or grad student)  
51545 001 LEC, 15:00-16:55 TTh, Coffey Hall 50, In Person Term Based; Paul Venturelli; 4 cr.

#### 5292 Special Lectures: Fisheries

(Student Option; Prereq: Grad student or instr consent)  
53397 002 LEC, In Person Term Based; 1-5 cr.

#### 5604W Fisheries Ecology and Management

(Student Option; WI)  
47692 001 LEC, 9:35-10:25 MW, Hodson Hall 495, In Person Term Based; Raymond Newman; 3 cr.  
47693 002 DIS, 8:30-10:25 F, Hodson Hall 495, In Person Term Based; Raymond Newman; 3 cr.

#### 5625 Wildlife Handling and Immobilization for Research and Management

(S-N or Audit; Prereq: General biology, [grad student or vet med student or FW sr])  
48576 001 LEC, In Person Term Based; James Smith; 2 cr.

#### 8051 Statistical Modeling of Ecological Data using R and WinBugs/JAGS

(Student Option; Prereq: Graduate-level statistics class, [working knowledge of program R or instr consent])  
60821 001 LEC, 13:55-15:50 MW, Alderman Hall 415, In Person Term Based; John Fieberg; 4 cr.

#### 8200 Seminar

(S-N or Audit; )  
53585 001 LEC, In Person Term Based; 1-4 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49120 001 IND, In Person Term Based; 1 cr.

#### 8394 Research in Fisheries

(Student Option; )

52607 002 IND, In Person Term Based; 1-4 cr.  
52610 005 IND, In Person Term Based; 1-4 cr.  
52611 006 IND, In Person Term Based; 1-4 cr.  
52614 009 IND, In Person Term Based; 1-4 cr.  
52615 010 IND, In Person Term Based; 1-4 cr.  
52617 012 IND, In Person Term Based; 1-4 cr.  
52620 015 IND, In Person Term Based; 1-4 cr.  
52618 013 IND, In Person Term Based; Andrew Simons; 1-4 cr.  
52621 016 IND, In Person Term Based; Bruce Vondracek; 1-4 cr.  
52609 004 IND, In Person Term Based; David Fulton; 1-4 cr.  
52616 011 IND, In Person Term Based; Jim Perry; 1-4 cr.  
52612 007 IND, In Person Term Based; Kristen Nelson; 1-4 cr.  
47908 001 IND, In Person Term Based; Paul Venturelli; 1-4 cr.  
52619 014 IND, In Person Term Based; Peter Sorensen; 1-4 cr.  
52613 008 IND, In Person Term Based; Raymond Newman; 1-4 cr.  
52608 003 IND, In Person Term Based; Yosef Cohen; 1-4 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49219 001 IND, In Person Term Based; 1 cr.

#### 8494 Research in Wildlife

(Student Option; Prereq: instr consent)  
52625 004 IND, In Person Term Based; 1-4 cr.  
52628 007 IND, In Person Term Based; 1-4 cr.  
52632 011 IND, In Person Term Based; 1-4 cr.  
52633 012 IND, In Person Term Based; 1-4 cr.  
52637 016 IND, In Person Term Based; 1-4 cr.  
52638 017 IND, In Person Term Based; 1-4 cr.  
52635 014 IND, In Person Term Based; ; 1-4 cr.  
52630 009 IND, In Person Term Based; David Fulton; 1-4 cr.  
52622 001 IND, In Person Term Based; Douglas Johnson; 1-4 cr.  
52626 005 IND, In Person Term Based; Francesca Cuthbert; 1-4 cr.  
52627 006 IND, In Person Term Based; James Forester; 1-4 cr.  
52636 015 IND, In Person Term Based; Jim Perry; 1-4 cr.  
52629 008 IND, In Person Term Based; Kristen Nelson; 1-4 cr.  
52634 013 IND, In Person Term Based; L Mech; 1-4 cr.  
52631 010 IND, In Person Term Based; Ralph Gutierrez; 1-4 cr.  
52623 002 IND, In Person Term Based; Robert Blair; 1-4 cr.  
52624 003 IND, In Person Term Based; Yosef Cohen; 1-4 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49308 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49407 001 IND, In Person Term Based; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49529 001 IND, In Person Term Based; 1-24 cr.

### Food Science and Nutrition (FSCN)

#### 1001 Orientation to the Majors: Food Science and Nutrition

(S-N only; Prereq: Major in Food Science or Nutrition)  
60499 001 LEC, 15:00-15:50 F, Food Science & Nutrition 15, In Person Term Based; Sara Cannon; 1 cr.

#### 1011 Science of Food and Cooking

(Student Option; PHY5)  
57330 001 LEC, 11:45-13:00 TTh, Food Science & Nutrition 15, In Person Term Based; David Smith; 4 cr.  
57333 004 LAB, 9:35-11:30 Th, McNeal Hall 126, In Person Term Based; David Smith; 4 cr.  
57331 002 LAB, 9:35-11:30 T, McNeal Hall 126, In Person Term Based; David Smith; 4 cr.  
57334 005 LAB, 13:15-15:10 Th, McNeal Hall 126, In Person Term Based; David Smith; 4 cr.

57332 003 LAB, 13:15-15:10 T, McNeal Hall 126, In Person Term Based; David Smith; 4 cr.

#### 1013 Dietary Supplements: scientific, regulatory, and cultural aspects

(Student Option; CIV)  
50562 001 LEC, Completely Online; Linda Brady; 3 cr.

#### 1102 Food: Safety, Risks, and Technology

(Student Option No Audit; CIV)  
47242 001 LEC, 15:00-16:15 TTh, Food Science & Nutrition 15, In Person Term Based; Ted Labuza; 3 cr.

#### 1112 Principles of Nutrition

(Student Option; Prereq: High school [biology, chemistry])  
50423 B10 LEC, Online & Distance Lrng (ODL); Sabrina Trudo; 3 cr.  
50424 C10 LEC, Online & Distance Lrng (ODL); Sabrina Trudo; 3 cr.  
48648 D10 LEC, Online & Distance Lrng (ODL); Sabrina Trudo; 3 cr.  
48649 E10 LEC, Online & Distance Lrng (ODL); Sabrina Trudo; 3 cr.  
47243 002 LEC, 16:00-17:15 MW, Bruininks Hall 220, In Person Term Based; Sara Cannon; 3 cr.

#### 2001 Healthy Foods, Healthy Lives: A Food System Approach to Cooking

(Student Option; Prereq: [soph, jr, sr] or instr consent)  
60627 001 LEC, 9:35-11:30 M, Food Science & Nutrition 15, In Person Term Based; Sara Cannon; 3 cr.

#### 2002 Healthy Foods, Healthy Lives - Cooking on a Student's Budget

(Student Option; )  
60695 001 LAB, 16:15-19:15 T, McNeal Hall 216, 15:00-15:50 M, McNeal Hall 126, In Person Term Based; Kristine Igo; 1 cr.

#### 2021 Introductory Microbiology

(A-F only; )  
57691 004 LAB, 14:45-16:40 Th, Food Science & Nutrition 218, In Person Term Based; Sara Cannon; 4 cr.  
55558 001 LEC, 8:30-9:20 MWF, Andrew Boss Laboratory 125, In Person Term Based; ; 4 cr.  
55560 003 LAB, 14:45-16:40 W, Food Science & Nutrition 218, In Person Term Based; Sara Cannon; 4 cr.  
55559 002 LAB, 14:45-16:40 T, Food Science & Nutrition 218, In Person Term Based; Sara Cannon; 4 cr.

#### 3301 Food Choices: Healing the Earth, Healing Ourselves

(Student Option; Prereq: Jr or sr or grad student)  
58133 001 LEC, Completely Online; Linda Brady; 3 cr.

#### 3612 Life Cycle Nutrition

(Student Option; Prereq: CHEM 1061/1065)  
60818 001 LEC, 9:35-10:25 MWF, Andrew Boss Laboratory 125, In Person Term Based; Renee Rosen; 3 cr.

#### 3615 Sociocultural Aspects of Food, Nutrition, and Health

(A-F only; GP)  
47245 001 LEC, 13:30-14:45 WF, Ruttan Hall B35, In Person Term Based; Chery Smith; 3 cr.  
60820 002 LEC, 10:15-11:30 TTh, Food Science & Nutrition 15, In Person Term Based; Chery Smith; 3 cr.

#### 4096 Professional Experience Program: Internship

(A-F only; Prereq: Undergraduate in the Department of Food Science and Nutrition enrolled in either the Food Science or Nutrition major or minor. To register, students must fill out FSCN Internship Agreement form, available at [www.fscn.umn.edu](http://www.fscn.umn.edu). Contact [fscnugcollegeconsentum.edu](mailto:fscnugcollegeconsentum.edu) with questions.)  
49849 001 FWK, In Person Term Based; Sara Cannon; 1-4 cr.

#### 4121 Food Microbiology

(Student Option No Audit; Prereq: BIOC 3021, [2021 or VBS 2032 or MICB 3301])  
47244 001 LEC, 10:40-11:30 WF, Food Science & Nutrition 15, In Person Term Based; Francisco Diez-Gonzalez; 3 cr.  
54933 002 LAB, 10:40-12:35 TTh, Food Science & Nutrition 218, In Person Term Based; Francisco Diez-Gonzalez; 3 cr.

#### 4291 Independent Study

(Student Option; Prereq: Undergrads, instr consent)  
48681 001 IND, In Person Term Based; Sara Cannon; 1-4 cr.

**4311 Chemical Reactions in Food Systems**

(Student Option; Prereq: 4112, 4312W)

55335 001 LAB, 12:50-15:50 F, Andrew Boss Laboratory 135, 12:50-15:50 F, Ruttan Hall B36, In Person Term Based; A Csallany; 2 cr.

**4332 Food Processing Operations**

(A-F or Audit; Prereq: 4331 or BAE 4744)

49700 002 LAB, 12:50-15:50 M, Food Science & Nutrition 150, In Person Term Based; David Smith; 3 cr.  
49699 001 LEC, 11:45-12:35 WF, Food Science & Nutrition 15, In Person Term Based; David Smith; 3 cr.**4345 Flavor Technology**

(Student Option; Prereq: 4112, 4121, 4331)

58621 001 LAB, 16:05-18:00 M, Ruttan Hall B26, In Person Term Based; 3 cr.

**4349 Food Science Capstone**

(A-F only; Prereq: 4112, 4121, 4131, 4312, 4332, BBE 4744, Food Science Major, senior)

55046 001 LAB, 16:05-17:00 TTh, McNeal Hall 126, In Person Term Based; Gary Reineccius; 2 cr.

**4481 Sensory Evaluation of Food Quality**

(A-F only; Prereq: 3102, Stat 3011)

58622 001 LAB, 12:50-15:50 WSA, Food Science &amp; Nutrition 15, In Person Term Based; Baraem Ismail; 1 cr.

**4612 Advanced Human Nutrition**

(Student Option; Prereq: 1112, [CHEM 1022 or CHEM 1062 and CHEM 1066], [BioC 3021 or PHSL 3051 or ANSC 3301 or BIOL 3211])

60546 001 LEC, 10:40-12:35 WF, Andrew Boss Laboratory 125, In Person Term Based; Joanne Slavin; 4 cr.

**4613 Experimental Nutrition**

(Student Option; Prereq: 4612, BioC 3021, Stat 3011)

48602 001 LEC, 11:45-12:35 M, Andrew Boss Laboratory 125, In Person Term Based; Daniel Gallaher; 2 cr.  
51035 004 LAB, 9:35-12:35 Th, Andrew Boss Laboratory 135, In Person Term Based; Daniel Gallaher; 2 cr.  
54888 005 LAB, 9:35-12:35 T, Andrew Boss Laboratory 135, In Person Term Based; Daniel Gallaher; 2 cr.  
48682 003 LAB, 12:50-15:50 W, Andrew Boss Laboratory 135, In Person Term Based; Daniel Gallaher; 2 cr.  
47247 002 LAB, 12:50-15:50 M, Andrew Boss Laboratory 135, In Person Term Based; Daniel Gallaher; 2 cr.**4614 Community Nutrition**

(A-F only; Prereq: FSCN 1112DSJ,SOCS)

47248 001 LEC, 13:30-14:45 TTh, Ruttan Hall 143, In Person Term Based; Renee Rosen; 3 cr.

**4622 Nutritional Toxicology, the basic****science of diet-related toxicants**

(A-F only; Prereq: BIOC 3021; designed for students majoring in [nutrition or food science or toxicology])

55625 001 LEC, 15:00-16:15 MW, Ruttan Hall B25, In Person Term Based; Meets With: 001 NUTR 5627; Chi Chen; 3 cr.

**4666 Medical Nutrition Therapy II**

(A-F or Audit; Prereq: FSCN 4665)

47249 001 LEC, 16:30-17:45 MW, Biological Sciences Ctr 64, In Person Term Based; Carrie Earthman; 3 cr.

**4732 Food and Nutrition Management**

(A-F or Audit; Prereq: 3732)

47250 001 LEC, 8:05-9:20 TTh, Food Science &amp; Nutrition 15, In Person Term Based; Len Marquart; 3 cr.

**5521 Flavor Technology**

(Student Option; Prereq: 4112)

60626 001 LEC, 16:05-18:00 W, Ruttan Hall B22, In Person Term Based; 2 cr.

**5601 Management of Eating Disorders**

(Student Option; Prereq: Sr or grad student in Nutrition or health related program or instr consent)

57388 001 LEC, 17:10-18:25 TTh, Ruttan Hall B22, In Person Term Based; Jillian Lampert; 3 cr.

**8310 General Seminar**

(S-N or Audit; Prereq: instr consent)

47359 001 LEC, 15:30-16:30 T, Food Science &amp; Nutrition 23, In Person Term Based; Sara Cannon; 1 cr.

**8318 Current Issues in Food Science**

(A-F or Audit; Prerequisites: FSCN 4112, FSCN 4121, Department Consent.)

47360 001 LEC, 8:30-10:25 F, Ruttan Hall B30, In Person Term Based; Zata Vickers; 2 cr.

**8330 Research Topics**

(Student Option; )

49802 001 LEC, In Person Term Based; 1 cr.

**8331 Food Proteins**

(Student Option; Prereq: 4112, 4312)

60625 001 LEC, 13:55-15:45 W, McNeal Hall 146, In Person Term Based; 2 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49119 001 IND, In Person Term Based; 1 cr.

**8335 Carbohydrate Chemistry in Food and Nutrition**

(Student Option; Prereq: 4112)

55409 001 LEC, 18:00-20:00 T, Food Science &amp; Nutrition 23, In Person Term Based; ; 2 cr.

**8391 Independent Study: Food Science**

(Student Option; Prereq: instr consent)

48689 001 IND, In Person Term Based; 1-4 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49218 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49307 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49405 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49528 001 IND, In Person Term Based; 1-24 cr.

**Food Systems (FDSY)****2101 Plant Production Systems**

(Student Option; Prereq: College level general biology course or Hort 1001 or instr consent)

59258 001 LEC, 10:40-12:35 TTh, Alderman Hall 405, In Person Term Based; Thomas Michaels; 3 cr.

**4101 Holistic Approaches to Improving****Food Systems Sustainability**

(A-F only; Prereq: [ApEc 3202, BBE 3201, 2101] or instr consent)

60447 001 LEC, 15:00-16:15 TTh, Alderman Hall 405, In Person Term Based; Julie Grossman; 3 cr.

**Foreign Study (FOST)****1040 Study Abroad**

(Student Option; )

53230 502 LEC, Study Abroad; 1-32 cr.  
53231 503 LEC, Study Abroad; 1-32 cr.  
53232 504 LEC, Study Abroad; 1-32 cr.  
50594 500 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
50595 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.**1400 Study Abroad**

(Student Option; Prereq: dept consent)

50596 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1410 Study Abroad**

(Student Option; Prereq: dept consent)

50597 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1420 Study Abroad**

(Student Option; Prereq: dept consent)

50598 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1430 Study Abroad**

(Student Option; Prereq: dept consent)

50599 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1440 Study Abroad**

(Student Option; Prereq: dept consent)

50600 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50601 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**1450 Study Abroad**

(Student Option; Prereq: dept consent)

50602 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1460 Study Abroad**

(Student Option; Prereq: dept consent)

50603 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1470 Study Abroad**

(Student Option; Prereq: dept consent)

50604 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1480 Study Abroad**

(Student Option; Prereq: dept consent)

50605 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1490 Study Abroad**

(Student Option; Prereq: dept consent)

50606 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1500 Study Abroad**

(Student Option; Prereq: dept consent)

50607 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1510 Study Abroad**

(Student Option; Prereq: dept consent)

50608 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1520 Study Abroad**

(Student Option; Prereq: dept consent)

50609 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1530 Study Abroad**

(Student Option; Prereq: dept consent)

50610 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1540 Study Abroad**

(Student Option; Prereq: dept consent)

50611 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1550 Study Abroad**

(Student Option; Prereq: dept consent)

50612 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1560 Study Abroad**

(Student Option; Prereq: dept consent)

50613 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1570 Study Abroad**

(Student Option; Prereq: dept consent)

50614 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1580 Study Abroad**

(Student Option; Prereq: dept consent)

50615 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1590 Study Abroad**

(Student Option; Prereq: dept consent)

50616 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1600 Study Abroad**

(Student Option; Prereq: dept consent)

50617 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1710 Study Abroad**

(Student Option; Prereq: dept consent)

50618 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1720 Study Abroad**

(Student Option; Prereq: dept consent)

50619 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1730 Study Abroad**

(Student Option; Prereq: dept consent)

50620 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1740 Study Abroad**

(Student Option; Prereq: dept consent)

50621 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1750 Study Abroad**

(Student Option; Prereq: dept consent)

50622 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1760 Study Abroad**

(Student Option; Prereq: dept consent)

50623 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1770 Study Abroad**

(Student Option; Prereq: dept consent)  
50624 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1780 Study Abroad**

(Student Option; Prereq: dept consent)  
50625 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1790 Study Abroad**

(Student Option; Prereq: dept consent)  
50626 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1800 Study Abroad**

(Student Option; Prereq: dept consent)  
50627 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1810 Study Abroad**

(Student Option; Prereq: dept consent)  
50628 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1820 Study Abroad**

(Student Option; Prereq: dept consent)  
50629 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1830 Study Abroad**

(Student Option; Prereq: dept consent)  
50630 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1840 Study Abroad**

(Student Option; Prereq: dept consent)  
50631 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1850 Study Abroad**

(Student Option; Prereq: dept consent)  
50632 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1860 Study Abroad**

(Student Option; Prereq: dept consent)  
50633 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1870 Study Abroad**

(Student Option; Prereq: dept consent)  
50634 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1880 Study Abroad**

(Student Option; Prereq: dept consent)  
50635 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1890 Study Abroad**

(Student Option; Prereq: dept consent)  
50636 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1900 Study Abroad**

(Student Option; Prereq: dept consent)  
50637 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1910 Study Abroad**

(Student Option; Prereq: dept consent)  
50638 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**1920 Study Abroad**

(Student Option; Prereq: dept consent)  
50639 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.

**3000 Study Abroad: Outside Program**

(S-N only; Prereq: dept consent)  
51036 500 LEC, Study Abroad; Katherine Moss; 0-20 cr.  
50574 501 LEC, Study Abroad; Katherine Moss; 0-20 cr.  
49871 502 LEC, Study Abroad; Katherine Moss; 0-20 cr.

**3010 Directed Study Abroad**

(S-N only; )  
53250 502 LEC, Study Abroad; 0-18 cr.

**3020 Exchange Study Abroad**

(S-N only; Prereq: dept consent)  
56759 503 LEC, Study Abroad; 0-18 cr.  
56760 504 LEC, Study Abroad; 0-18 cr.  
56761 505 LEC, Study Abroad; 0-18 cr.  
51037 500 LEC, Study Abroad; Katherine Moss; 0-18 cr.  
50575 501 LEC, Study Abroad; Katherine Moss; 0-18 cr.  
49872 502 LEC, Study Abroad; Katherine Moss; 0-18 cr.

**3021 Study Abroad: Bilateral Exchange Program**

(A-F only; )  
57567 502 LEC, Study Abroad; 0-20 cr.

**3022 Study Abroad: China Center Exchange Program**

(S-N only; )  
57570 502 LEC, Study Abroad; 0-20 cr.

**3023 Study Abroad: CSE Exchange Program**

(Student Option; )  
57571 502 LEC, Study Abroad; 0-20 cr.

**3024 Study Abroad: Collegiate Exchange Programs**

(S-N only; )  
57572 502 LEC, Study Abroad; 0-20 cr.

**3025 Study Abroad: Scholarship / IRSEP Exchange Program**

(S-N only; )  
57574 502 LEC, Study Abroad; 0-20 cr.

**3026 Study Abroad: ISEP Exchange Program**

(S-N only; )  
57575 502 LEC, Study Abroad; 0-20 cr.

**3040 Study Abroad**

(A-F only; Prereq: dept consent)  
50576 500 LEC, Study Abroad; 1-32 cr.  
50577 501 LEC, Study Abroad; 1-32 cr.  
50578 502 LEC, Study Abroad; 1-32 cr.  
50579 503 LEC, Study Abroad; 1-32 cr.  
49873 504 LEC, Study Abroad; 1-32 cr.  
49874 505 LEC, Study Abroad; 1-32 cr.  
49875 506 LEC, Study Abroad; 1-32 cr.  
49876 507 LEC, Study Abroad; 1-32 cr.  
49877 508 LEC, Study Abroad; 1-32 cr.  
49878 509 LEC, Study Abroad; 1-32 cr.  
49879 510 LEC, Study Abroad; 1-32 cr.  
50263 511 LEC, Study Abroad; 1-32 cr.  
50264 512 LEC, Study Abroad; 1-32 cr.  
51526 514 LEC, Study Abroad; 1-32 cr.  
51527 515 LEC, Study Abroad; 1-32 cr.  
51528 516 LEC, Study Abroad; 1-32 cr.  
51529 517 LEC, Study Abroad; 1-32 cr.  
51530 518 LEC, Study Abroad; 1-32 cr.  
51531 519 LEC, Study Abroad; 1-32 cr.  
51532 520 LEC, Study Abroad; 1-32 cr.  
51525 513 LEC, Study Abroad; 1-32 cr.

**3110 HECUA-Sponsored Study Abroad Programs**

(A-F only; Prereq: dept consent)  
49880 502 LEC, Study Abroad; 1-20 cr.

**3115 Study Abroad: Alliance Program**

(A-F only; )  
57565 502 LEC, Study Abroad; 0-20 cr.

**3120 AESOP/CIC-Study Abroad Programs**

(A-F only; Prereq: dept consent)  
49881 502 LEC, Study Abroad; 1-20 cr.

**3125 Study Abroad: USIT Irish Studies Summer School Program**

(A-F only; )  
57573 502 LEC, Study Abroad; 0-20 cr.

**3130 IES-Study Abroad Program**

(A-F only; Prereq: dept consent)  
49882 502 LEC, Study Abroad; 1-20 cr.

**3135 Study Abroad: CET Programs**

(A-F only; )  
57569 502 LEC, Study Abroad; 0-20 cr.

**3140 CIEE-Study Abroad Program**

(A-F only; Prereq: dept consent)  
49883 502 LEC, Study Abroad; 1-20 cr.

**3150 Butler/IFSA: Study Abroad Program**

(A-F only; Prereq: dept consent)  
49884 502 LEC, Study Abroad; 1-20 cr.

**3160 Arcadia/CEA: Study Abroad Program**

(A-F only; Prereq: dept consent)  
49885 502 LEC, Study Abroad; 1-20 cr.

**3170 Study Abroad: Integrated Studies in Freiburg**

(A-F only; )  
55656 502 LEC, Study Abroad; 0-20 cr.

**3180 Bologna Cooperative Studies Program, Italy**

(A-F only; Prereq: dept consent)

49886 502 LEC, Study Abroad; 1-20 cr.

**3201 Study Abroad**

(Student Option; Prereq: dept consent)  
50580 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49887 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3202 Study Abroad**

(Student Option; Prereq: dept consent)  
50581 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49888 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3203 Study Abroad**

(Student Option; Prereq: dept consent)  
50582 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49889 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3204 Study Abroad**

(Student Option; Prereq: dept consent)  
50583 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49890 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3205 Study Abroad**

(Student Option; Prereq: dept consent)  
50584 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49891 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3206 Study Abroad**

(Student Option; Prereq: dept consent)  
50585 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49892 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3207 Study Abroad**

(Student Option; Prereq: dept consent)  
50586 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49893 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3208 Study Abroad**

(Student Option; Prereq: dept consent)  
50587 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49894 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3209 Study Abroad**

(Student Option; Prereq: dept consent)  
50588 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49895 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3211 Study Abroad**

(Student Option; Prereq: dept consent)  
50589 501 LEC, Study Abroad; Katherine Moss; 1-32 cr.  
49896 502 LEC, Study Abroad; Katherine Moss; 1-32 cr.

**3220 Study Abroad: SIT Program**

(A-F only; )  
55655 502 LEC, Study Abroad; 1-20 cr.  
54471 500 LEC, Study Abroad; Emily Schwartz; 1-20 cr.

**3225 Study Abroad: Language Immersion in China**

(Student Option; )  
61247 502 LEC, Study Abroad; 0-20 cr.

**3230 Study Abroad: School for Field Studies (SFS) Program**

(A-F only; )  
55654 502 LEC, Study Abroad; 1-20 cr.  
54470 500 LEC, Study Abroad; Emily Schwartz; 1-20 cr.

**3235 Study Abroad: University Study in Ireland**

(Student Option; )  
61256 502 LEC, Study Abroad; 0-20 cr.

**3240 University Study in Norway**

(A-F only; )  
55658 502 LEC, Study Abroad; 1-20 cr.  
54473 500 LEC, Study Abroad; Emily Schwartz; 1-20 cr.

**3245 Study Abroad: Arabic Language and Culture in Morocco Program**

(A-F only; )  
57566 502 LEC, Study Abroad; 0-20 cr.

**3255 Study Abroad: Language and Culture in Buenos Aires Program**

(A-F only; )  
57576 502 LEC, Study Abroad; 0-20 cr.

**3265 Study Abroad: Florence Program**

(A-F only; )  
61246 502 LEC, Study Abroad; 0-20 cr.

**3270 Denmark's International Study Program**(A-F only; Prereq: dept consent)  
49897 502 LEC, Study Abroad; Katherine Moss; 1-20 cr.**3275 Study Abroad: Mexico Program**(A-F only; )  
61253 502 LEC, Study Abroad; 0-20 cr.**3285 Study Abroad in Rome Program**(A-F only; )  
61254 502 LEC, Study Abroad; 0-20 cr.**3290 University Study in New Zealand**(A-F only; )  
55657 502 LEC, Study Abroad; 1-20 cr.  
54472 500 LEC, Study Abroad; Emily Schwartz; 1-20 cr.**3295 Study and Internships in Sydney Program**(A-F only; )  
61255 502 LEC, Study Abroad; 0-20 cr.**3305 Study Abroad: Turkey**(Student Option; )  
61250 502 LEC, Study Abroad; 0-20 cr.**3306 Study Abroad: Study and Internships in Madrid**(Student Option; )  
61252 502 LEC, Study Abroad; 0-20 cr.**3310 Study Abroad in Montpellier**(A-F only; Prereq: dept consent)  
49898 502 LEC, Study Abroad; 1-20 cr.**3315 Study Abroad: MSID Ecuador Program**(A-F only; )  
57577 502 LEC, Study Abroad; 0-20 cr.**3320 International Program in Toledo, Spain**(A-F only; Prereq: dept consent)  
49899 502 LEC, Study Abroad; 1-20 cr.**3325 Study Abroad: MSID India**(A-F only; )  
57578 502 LEC, Study Abroad; 0-20 cr.**3330 Study Abroad in Venezuela**(A-F only; Prereq: dept consent)  
49900 502 LEC, Study Abroad; 1-20 cr.**3335 Study Abroad: MSID Kenya**(A-F only; )  
61248 502 LEC, Study Abroad; 0-20 cr.**3340 Study Abroad in London**(A-F only; )  
49901 502 LEC, Study Abroad; 1-20 cr.  
49902 503 LEC, Study Abroad; 1-20 cr.  
50590 504 LEC, Study Abroad; 1-20 cr.  
50591 505 LEC, Study Abroad; 1-20 cr.  
50592 506 LEC, Study Abroad; 1-20 cr.  
50593 507 LEC, Study Abroad; 1-20 cr.**3345 Study Abroad: MSID Senegal**(A-F only; )  
61249 502 LEC, Study Abroad; 0-20 cr.**3350 University Study in Australia**(A-F only; )  
49942 502 LEC, Study Abroad; 1-20 cr.**3355 Study Abroad: University Study in Israel Program**(A-F only; )  
61257 502 LEC, Study Abroad; 0-20 cr.**3360 University Study in the United Kingdom**(A-F only; )  
50265 502 LEC, Study Abroad; Katherine Moss; 1-20 cr.**3365 Study Abroad: University Study in South Africa Program**(A-F only; )  
61258 502 LEC, Study Abroad; 0-20 cr.**3370 Study Abroad Through InterStudy**(A-F only; )  
50801 502 LEC, Study Abroad; Katherine Moss; 1-20 cr.**3375 Study Abroad: University Study in South Korea Program**(A-F only; )  
61259 502 LEC, Study Abroad; 0-20 cr.**3380 Study Abroad: American University Cairo**(A-F only; )  
53251 502 LEC, Study Abroad; 0-21 cr.**3385 Study Abroad in Tanzania Program**(A-F only; )  
61251 502 LEC, Study Abroad; 0-20 cr.**3390 Study Abroad: GlobalLinks, AustralLearn**(A-F only; )  
53252 502 LEC, Study Abroad; 1-20 cr.**3391 Study Abroad: GlobalLinks, AsiaLearn**(A-F only; )  
55652 502 LEC, Study Abroad; 1-20 cr.**3392 Study Abroad: GlobalLinks, EuroLearn**(A-F only; )  
55653 502 LEC, Study Abroad; 1-20 cr.**3400 Study Abroad**(Student Option; Prereq: dept consent)  
50640 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50641 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50642 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3410 Study Abroad**(Student Option; Prereq: dept consent)  
50643 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50644 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50645 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3420 Study Abroad**(Student Option; Prereq: dept consent)  
50646 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50647 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50648 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3430 Study Abroad**(Student Option; Prereq: dept consent)  
50649 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50650 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50651 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3440 Study Abroad**(Student Option; Prereq: dept consent)  
50652 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50653 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50654 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3450 Study Abroad**(Student Option; Prereq: dept consent)  
50655 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50656 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50657 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3460 Study Abroad**(Student Option; Prereq: dept consent)  
50658 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50659 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50660 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3470 Study Abroad**(Student Option; Prereq: dept consent)  
50661 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50662 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50663 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3480 Study Abroad**(Student Option; Prereq: dept consent)  
50664 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50665 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50666 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3490 Study Abroad**(Student Option; Prereq: dept consent)  
50667 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50668 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50669 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3500 Study Abroad**(Student Option; Prereq: dept consent)  
50670 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50671 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50672 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3510 Study Abroad**(Student Option; Prereq: dept consent)  
50673 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50674 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50675 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3520 Study Abroad**(Student Option; Prereq: dept consent)  
50676 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50677 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50678 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3530 Study Abroad**(Student Option; Prereq: dept consent)  
50679 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50680 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50681 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3540 Study Abroad**(Student Option; Prereq: dept consent)  
50682 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50683 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50684 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3550 Study Abroad**(Student Option; Prereq: dept consent)  
50685 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50686 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50687 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3560 Study Abroad**(Student Option; Prereq: dept consent)  
50688 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50689 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50690 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3570 Study Abroad**(Student Option; Prereq: dept consent)  
50691 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50692 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50693 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3580 Study Abroad**(Student Option; Prereq: dept consent)  
50694 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50695 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3590 Study Abroad**(Student Option; Prereq: dept consent)  
50696 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50697 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3600 Study Abroad**(Student Option; Prereq: dept consent)  
50698 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50699 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50700 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3710 Study Abroad**(Student Option; Prereq: dept consent)  
50701 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50702 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3720 Study Abroad**(Student Option; Prereq: dept consent)  
50703 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50704 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3730 Study Abroad**(Student Option; Prereq: dept consent)  
50705 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50706 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3740 Study Abroad**(Student Option; Prereq: dept consent)  
50707 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50708 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3750 Study Abroad**(Student Option; Prereq: dept consent)  
50709 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50710 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.**3760 Study Abroad**

(Student Option; Prereq: dept consent)

50711 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50712 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3770 Study Abroad

(Student Option; Prereq: dept consent)  
50713 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50714 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3790 Study Abroad

(Student Option; Prereq: dept consent)  
50715 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50716 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3800 Study Abroad

(Student Option; Prereq: dept consent)  
50717 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50718 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3810 Study Abroad

(Student Option; Prereq: dept consent)  
50719 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50720 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50721 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3820 Study Abroad

(Student Option; Prereq: dept consent)  
50722 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50723 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3830 Study Abroad

(Student Option; Prereq: dept consent)  
50724 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50725 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3840 Study Abroad

(Student Option; Prereq: dept consent)  
50726 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50727 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3850 Study Abroad

(Student Option; Prereq: dept consent)  
50728 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50729 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3860 Study Abroad

(Student Option; Prereq: dept consent)  
50730 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50731 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3870 Study Abroad

(Student Option; Prereq: dept consent)  
50732 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50733 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50734 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50735 503 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3880 Study Abroad

(Student Option; Prereq: dept consent)  
50736 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50737 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50738 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50739 503 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3890 Study Abroad

(Student Option; Prereq: dept consent)  
50740 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50741 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50742 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50743 503 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3900 Study Abroad

(Student Option; Prereq: dept consent)  
50744 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50745 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3910 Study Abroad

(Student Option; Prereq: dept consent)  
50746 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50747 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50748 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50749 503 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 3920 Study Abroad

(Student Option; Prereq: dept consent)  
50750 500 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50751 501 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50752 502 LEC, Study Abroad; Katherine Moss; 1-10 cr.  
50753 503 LEC, Study Abroad; Katherine Moss; 1-10 cr.

### 5000 Study Abroad

(Student Option; Prereq: dept consent)  
50321 501 LEC, Study Abroad; 0-18 cr.

51522 502 LEC, Study Abroad; 0-18 cr.

### 5020 Global Experience Program

(Student Option; Prereq: Must have graduate student status)  
52642 502 LEC, Study Abroad; 0-6 cr.

## Forest and Natural Res. Mgmt. (FNRM)

### 3131 Geographical Information Systems (GIS) for Natural Resources

(A-F only; Prereq: Soph or jr or sr or UHP frTS)  
50883 001 LEC, 16:05-18:00 M, Green Hall 110, In Person Term Based; Andrew Jenks; 4 cr.  
60633 020 LEC, Completely Online; Andrew Jenks; 4 cr.  
60634 021 LAB, Completely Online; Andrew Jenks; 4 cr.  
54936 006 LAB, 8:30-10:25 T, Skok Hall 35, In Person Term Based; Andrew Jenks; 4 cr.  
51719 004 LAB, 10:40-12:35 W, Skok Hall 35, In Person Term Based; Andrew Jenks; 4 cr.  
53942 005 LAB, 10:40-12:35 T, Skok Hall 35, In Person Term Based; Andrew Jenks; 4 cr.  
50884 002 LAB, 16:05-18:00 T, Skok Hall 35, In Person Term Based; Andrew Jenks; 4 cr.  
51083 003 LAB, 18:00-20:00 M, Skok Hall 35, In Person Term Based; Andrew Jenks; 4 cr.  
57007 007 LAB, Partially Online; Andrew Jenks; 4 cr.

### 3203 Forest Fire and Disturbance Ecology (A-F or Audit; Prereq: 3104 or equiv)

50191 001 LEC, 8:45-10:00 TTh, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 5203; Lee Frelich; 3 cr.

### 3218 Measuring and Modeling Forests

(A-F or Audit; Prereq: [ESPM 3012 or STAT 3011], MATH 1151)  
46817 001 LEC, 12:50-13:40 MWF, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5218; Thomas Burk; 3 cr.

### 3262 Remote Sensing and Geospatial

**Analysis of Natural Resources and Environment**  
(Student Option; )  
47405 001 LEC, 9:35-10:25 MWF, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5262; Marvin Bauer; 3 cr.  
47406 002 LAB, 8:30-10:25 T, Green Hall 326, In Person Term Based; Meets With: 002 FNRM 5262; Marvin Bauer; 3 cr.  
47407 003 LAB, 10:40-12:35 T, Green Hall 326, In Person Term Based; Meets With: 003 FNRM 5262; Marvin Bauer; 3 cr.

### 3431 Timber Harvesting and Road Planning

(Student Option; Prereq: FNRM 3411 or instr consent)  
47227 001 LEC, 13:55-14:45 MW, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5431; Charlie Blinn; 2 cr.

### 3471 Forest Planning and Management

(A-F or Audit; Prereq: Intro silviculture or concurrent registration in silviculture or instr consent)  
60467 001 LEC, 17:15-18:30 W, Green Hall 19, 10:15-11:30 F, Green Hall 19, 15:15-16:30 Th, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 5471; Howard Hoganson; 3 cr.

### 3501 Arboriculture: Selection and Maintenance of Trees

(Student Option; Prereq: [1101 or Hort 1012], Biol 2022)  
47179 001 LEC, 13:30-14:45 TTh, Green Hall 19, In Person Term Based; Gary Johnson; 3 cr.

### 4232W Managing Recreational Lands

(A-F or Audit; W)  
50176 001 LEC, 11:45-13:00 TTh, Hodson Hall 495, In Person Term Based; Meets With: 001 FNRM 5232; Ingrid Schneider; 4 cr.  
50177 002 DIS, 13:55-14:45 Th, Green Hall 203, In Person Term Based; Meets With: 002 FNRM 5232; Ingrid Schneider; 4 cr.  
50178 003 DIS, 15:00-15:50 Th, Green Hall 203, In Person Term Based; Meets With: 003 FNRM 5232; Ingrid Schneider; 4 cr.

### 4293 Directed Study

(Student Option; Prereq: instr consent)

48557 015 IND, In Person Term Based; Diana Karwan; 1-5 cr.  
68440 023 IND, In Person Term Based; Diomy Zamora; 1-5 cr.  
48556 014 IND, In Person Term Based; Gary Johnson; 1-5 cr.  
48714 013 IND, In Person Term Based; Howard Hoganson; 1-5 cr.  
56465 022 IND, In Person Term Based; Ingrid Schneider; 1-5 cr.  
48560 020 IND, In Person Term Based; Kristen Nelson; 1-5 cr.  
48555 012 IND, In Person Term Based; Lee Frelich; 1-5 cr.  
48713 011 IND, In Person Term Based; Michael Falkowski; 1-5 cr.  
48801 016 IND, In Person Term Based; Mike Kilgore; 1-5 cr.  
51554 010 IND, In Person Term Based; Alan Ek; 1-5 cr.  
48548 002 IND, In Person Term Based; Charlie Blinn; 1-5 cr.  
48551 006 IND, In Person Term Based; Dean Current; 1-5 cr.  
53130 017 IND, In Person Term Based; Joe Knight; 1-5 cr.  
48554 009 IND, In Person Term Based; Karlyn Eckman; 1-5 cr.  
48559 019 IND, In Person Term Based; Linda Nagel; 1-5 cr.  
48552 007 IND, In Person Term Based; Mae Davenport; 1-5 cr.  
48547 001 IND, In Person Term Based; Marvin Bauer; 1-5 cr.  
48561 021 IND, In Person Term Based; Peter Reich; 1-5 cr.  
48558 018 IND, In Person Term Based; Rebecca Montgomery; 1-5 cr.  
48550 005 IND, In Person Term Based; Stephan Carlson; 1-5 cr.  
53175 004 IND, In Person Term Based; Thomas Burk; 1-5 cr.  
48553 008 IND, In Person Term Based; Andrew David; 1-5 cr.

### 4501 Urban Forest Management: Managing Greenspaces for People

(Student Option; Prereq: [1101, 3501, Ent 4251, PIPa 3003, [UF major or minor]] or instr consent)  
50558 001 LEC, 13:55-15:10 MW, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 5501; Gary Johnson; 3 cr.

### 5146 Science and Policy of Global Environmental Change

(Student Option; Prereq: 3104 or Biol 3407 or equiv)  
59155 001 LEC, 10:15-11:30 TTh, Lrng & Environmental Sci R380, In Person Term Based; Meets With: 001 EEB 5146002 PA 5790; Sarah Hobbie; 3 cr.

### 5203 Forest Fire and Disturbance Ecology (A-F or Audit; Prereq: Grad student or instr consent)

50192 001 LEC, 8:45-10:00 TTh, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 3203; Lee Frelich; 3 cr.

### 5232 Managing Recreational Lands

(A-F or Audit; Prereq: Grad student or instr consent)  
50179 001 LEC, 11:45-13:00 TTh, Hodson Hall 495, In Person Term Based; Meets With: 001 FNRM 4232W; Ingrid Schneider; 4 cr.  
50189 002 DIS, 13:55-14:45 Th, Green Hall 203, In Person Term Based; Meets With: 002 FNRM 4232W; Ingrid Schneider; 4 cr.  
50190 003 DIS, 15:00-15:50 Th, Green Hall 203, In Person Term Based; Meets With: 003 FNRM 4232W; Ingrid Schneider; 4 cr.

### 5262 Remote Sensing and Geospatial Analysis of Natural Resources and Environment

(Student Option; Prereq: Grad student or instr consent)  
50181 001 LEC, 9:35-10:25 MWF, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 3262; Marvin Bauer; 3 cr.  
50185 002 LAB, 8:30-10:25 T, Green Hall 326, In Person Term Based; Meets With: 002 FNRM 3262; Marvin Bauer; 3 cr.  
50182 003 LAB, 10:40-12:35 T, Green Hall 326, In Person Term Based; Meets With: 003 FNRM 3262; Marvin Bauer; 3 cr.

### 5412 Advanced Remote Sensing and Geospatial Analysis

(Student Option; Prereq: 3262 or grad student or instr consent)  
56477 001 LEC, 8:30-9:20 MWF, Green Hall 203, In Person Term Based; Marvin Bauer; 3 cr.

### 5471 Forest Planning and Management

(A-F or Audit; Prereq: Grad student or instr consent)  
60468 001 LEC, 17:15-18:30 W, Green Hall 19, 10:15-11:30 F, Green Hall 19, 15:15-16:30 Th, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 3471; Howard Hoganson; 3 cr.

**5501 Urban Forest Management: Managing Greenspaces for People**

(Student Option; Prereq: Grad student or instr consent)  
47180 001 LEC, 13:55-15:10 MW, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 4501; Gary Johnson; 3 cr.

**8101 Research Problems: Physiological Ecology**

(Student Option; Prereq: instr consent)  
58780 002 IND, In Person Term Based; Peter Reich; 1-5 cr.  
48573 001 IND, In Person Term Based; Rebecca Montgomery; 1-5 cr.

**8102 Research Problems: Forest-Tree Genetics**

(Student Option; )  
48574 001 IND, In Person Term Based; Andrew David; 1-5 cr.

**8103 Research Problems: Forest Hydrology**

(Student Option; )  
54784 002 IND, In Person Term Based; Diana Karwan; 1-5 cr.  
48564 001 IND, In Person Term Based; Karlyn Eckman; 1-5 cr.

**8104 Research Problems: Forest Ecology**

(Student Option; )  
48565 001 IND, In Person Term Based; Lee Frelich; 1-5 cr.  
60466 003 IND, In Person Term Based; Peter Reich; 1-5 cr.  
51614 002 IND, In Person Term Based; Rebecca Montgomery; 1-5 cr.

**8105 Research Problems: Silviculture**

(Student Option; )  
48566 001 IND, In Person Term Based; ; 1-5 cr.

**8106 Research Problems: Urban Forestry-- Biology and Management**

(Student Option; )  
48567 001 IND, In Person Term Based; Gary Johnson; 1-5 cr.

**8107 Seminar: Forest Resources**

(Student Option; )  
48803 001 LEC, 15:00-15:50 W, Green Hall 203, In Person Term Based; ; 1 cr.

**8201 Research Problems: Forest Economics**

(Student Option; )  
51615 002 IND, In Person Term Based; Mike Kilgore; 1-5 cr.  
48568 001 IND, In Person Term Based; Howard Hoganson; 1-5 cr.

**8202 Research Problems: Forest Biometry and Measurements**

(Student Option; )  
51617 002 IND, In Person Term Based; Alan Ek; 1-5 cr.  
48569 001 IND, In Person Term Based; Thomas Burk; 1-5 cr.

**8203 Research Problems: Forest Recreation**

(Student Option; )  
52871 002 IND, In Person Term Based; Ingrid Schneider; 1-5 cr.  
50559 001 IND, In Person Term Based; Mae Davenport; 1-5 cr.

**8204 Research Problems: Forest Policy**

(Student Option; )  
51619 003 IND, In Person Term Based; Kristen Nelson; 1-5 cr.  
51618 002 IND, In Person Term Based; Mike Kilgore; 1-5 cr.  
48570 001 IND, In Person Term Based; Dean Current; 1-5 cr.

**8205 Research Problems: Spatial Data Analysis**

(Student Option; Prereq: instr consent)  
51623 003 IND, In Person Term Based; Joe Knight; 1-5 cr.  
48571 001 IND, In Person Term Based; Marvin Bauer; 1-5 cr.  
51622 002 IND, In Person Term Based; Paul Bolstad; 1-5 cr.

**8206 Research Problems: Forest Management**

(Student Option; )  
51624 002 IND, In Person Term Based; Howard Hoganson; 1-5 cr.  
48572 001 IND, In Person Term Based; Charlie Blinn; 1-5 cr.

**8207 Economic Analysis of Natural Resource Projects**

(A-F or Audit; Prereq: instr consent)  
50557 001 IND, In Person Term Based; Dean Current; 2 cr.  
51625 002 IND, In Person Term Based; Mike Kilgore; 2 cr.

**8208 Research Problems: Environmental Learning and Leadership**

(Student Option; Prereq: instr consent)  
49832 001 IND, In Person Term Based; Stephan Carlson; 1-5 cr.  
51699 002 IND, In Person Term Based; Dean Current; 1-5 cr.  
53330 003 IND, In Person Term Based; Karlyn Eckman; 1-5 cr.

**French (FREN)****100 Reading French in the Arts and Sciences**

(S-N only; )  
53447 001 DIS, 18:20-20:20 T, Kolthoff Hall 136, In Person Term Based; ; 0 cr.

**1001 Beginning French**

(Student Option; )  
47578 006 DIS, 18:20-20:25 MTh, Folwell Hall 16, In Person Term Based; Meets With: 006 FREN 4001; Jonathan Fulk; 5 cr.

47575 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 18, In Person Term Based; Meets With: 001 FREN 4001; Jonathan Fulk; 5 cr.

67366 002 DIS, 9:05- 9:55 MTWThF, Folwell Hall 18, In Person Term Based; Meets With: 002 FREN 4001; Jonathan Fulk; 5 cr.

47577 004 DIS, 11:15-12:05 MTWThF, Kolthoff Hall 137, In Person Term Based; Jonathan Fulk; 5 cr.

47576 003 DIS, 10:10-11:00 MTWThF, Kolthoff Hall 140, In Person Term Based; Jonathan Fulk; 5 cr.

57901 005 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 138, In Person Term Based; Meets With: 005 FREN 4001; Jonathan Fulk; 5 cr.

**1002 Beginning French**

(Student Option; Prereq: 1001 or equiv)

47584 006 DIS, 18:20-20:25 MTh, Kolthoff Hall 136, In Person Term Based; Meets With: 006 FREN 4002; Jonathan Fulk; 5 cr.

47582 004 DIS, 12:20-13:10 MTWTh, Folwell Hall 105, In Person Term Based; Meets With: 004 FREN 4002; Jonathan Fulk; 5 cr.

47580 002 DIS, 10:10-11:00 MTWTh, Folwell Hall 5, In Person Term Based; Jonathan Fulk; 5 cr.

47581 003 DIS, 11:15-12:05 MTWTh, Folwell Hall 3, In Person Term Based; Jonathan Fulk; 5 cr.

47583 005 DIS, 13:25-14:15 MTWTh, Folwell Hall 4, In Person Term Based; Jonathan Fulk; 5 cr.

47579 001 DIS, 9:05- 9:55 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 001 FREN 4002; Jonathan Fulk; 5 cr.

**1003 Intermediate French**

(Student Option; Prereq: 1002 or Entrance Proficiency Test)

48854 007 DIS, 18:20-20:25 MTh, Kolthoff Hall 135, In Person Term Based; Meets With: 007 FREN 4003; 5 cr.

48853 006 DIS, 13:25-14:15 MTWTh, Folwell Hall 104, In Person Term Based; Meets With: 006 FREN 4003; 5 cr.

47586 003 DIS, 10:10-11:00 MTWTh, Folwell Hall 104, In Person Term Based; Meets With: 003 FREN 4003; 5 cr.

50504 004 DIS, 11:15-12:05 MTWTh, Kolthoff Hall 140, In Person Term Based; Meets With: 004 FREN 4003; 5 cr.

69132 704 DIS, In Person Term Based; Coleen Colton; 5 cr.

69104 703 DIS, In Person Term Based; Jason Swanson; 5 cr.

68809 700 DIS, In Person Term Based; Katherine Keller; 5 cr.

69024 701 DIS, In Person Term Based; LaRae Ellingson; 5 cr.

69025 702 DIS, In Person Term Based; LaRae Ellingson; 5 cr.

47585 001 DIS, 8:00- 8:50 MTWTh, Kolthoff Hall 133, In Person Term Based; Meets With: 001 FREN 4003; ; 5 cr.

47587 005 DIS, 12:20-13:10 MTWTh, Folwell Hall 104, In Person Term Based; Meets With: 005 FREN 4003; ; 5 cr.

50503 002 DIS, 9:05- 9:55 MTWTh, Folwell Hall 5, In Person Term Based; ; 5 cr.

**1004 Intermediate French**

(Student Option; Prereq: 1003 or Entrance Proficiency Test)

47592 008 LEC, 18:20-20:25 MTh, Folwell Hall 10, In Person Term Based; 5 cr.

47591 007 LEC, 18:20-20:25 MW, Folwell Hall 8, In Person Term Based; Meets With: 007 FREN 4004; 5 cr.

50506 006 LEC, 13:25-14:15 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 006 FREN 4004; 5 cr.

47589 004 LEC, 11:15-12:05 MTWTh, Kolthoff Hall 139, In Person Term Based; Meets With: 004 FREN 4004; 5 cr.

50505 001 LEC, 8:00- 8:50 MWF, Folwell Hall 104, Partially Online; Meets With: 001 FREN 4004; 5 cr.

67367 009 LEC, 9:05- 9:55 MTWTh, Folwell Hall 3, In Person Term Based; 5 cr.

68811 701 LEC, In Person Term Based; Amy Miller; 5 cr.

69027 702 LEC, In Person Term Based; LaRae Ellingson; 5 cr.

68810 700 LEC, In Person Term Based; Thomas Halloran; 5 cr.

52067 002 LEC, 9:05- 9:55 MTWTh, Folwell Hall 30, In Person Term Based; ; 5 cr.

47588 003 LEC, 10:10-11:00 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 003 FREN 4004; ; 5 cr.

47590 005 LEC, 12:20-13:10 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 005 FREN 4004; ; 5 cr.

**1022 Accelerated Beginning French**

(Student Option; Prereq: 2 or more yrs high school French)

48299 001 DIS, 9:05- 9:55 MTWTh, Kolthoff Hall 139, In Person Term Based; Meets With: 001 FREN 4022; Jonathan Fulk; 5 cr.

48809 002 DIS, 11:15-12:05 MTWTh, Kolthoff Hall 138, In Person Term Based; Meets With: 002 FREN 4022; Jonathan Fulk; 5 cr.

**3014 French Phonetics**

(Student Option; Prereq: 1004)

47593 001 DIS, 12:20-13:10 MWF, Nicholson Hall 120, In Person Term Based; Rick Treece; 3 cr.

**3015 Advanced French Grammar and Communication**

(Student Option; Prereq: 1004 or equiv or instr consent)

47595 002 DIS, In Person Term Based; 3 cr.

50287 003 DIS, 13:25-14:15 MWF, Folwell Hall 13, In Person Term Based; Lydia Belateche; 3 cr.

47594 001 DIS, 10:10-11:00 MWF, Folwell Hall 32, In Person Term Based; Trina Whitaker; 3 cr.

**3016 Advanced French Composition and Communication**

(Student Option; )

47596 001 LEC, 11:15-12:05 TTh, Folwell Hall 30, In Person Term Based; Betsy Kerr; 3 cr.

47597 002 LEC, 12:20-13:10 MWF, Folwell Hall 32, In Person Term Based; Maria Brewer; 3 cr.

47598 003 LEC, 13:25-14:15 TTh, Ford Hall B10, In Person Term Based; Susan Noakes; 3 cr.

**3018 French Oral Communication**

(Student Option; Prereq: 3014, 3015)

68050 001 DIS, 14:30-15:45 MW, Folwell Hall 119, In Person Term Based; Patricia Mougel; 3 cr.

**3101W Methods in French and Francophone Studies**

(Student Option; Prereq: 3016 or equivLITR,WI)

47599 001 DIS, 9:45-11:00 TTh, Folwell Hall 119, In Person Term Based; Eileen Sivert; 4 cr.

52774 002 DIS, 11:15-12:30 TTh, Folwell Hall 119, In Person Term Based; Eileen Sivert; 4 cr.

**3140 Topics in Medieval and Renaissance Literature**

(Student Option; Prereq: 3101)

68052 001 LEC, 11:15-12:30 MW, Folwell Hall 119, In Person Term Based; Mary Franklin-Brown; 3 cr.

**3531 Sociolinguistics of French**

(Student Option; Prereq: Credit will not be granted if credit has been received for: : 3531; Ling 3001 or 5001, gradGP)

68053 001 DIS, 13:00-14:15 TTh, Folwell Hall 28, In Person Term Based; Meets With: 001 FREN 5531; Betsy Kerr; 3 cr.

**3650 Topics in French/Francophone Cultures**

(Student Option; Prereq: 3015)

60301 001 DIS, 9:45-11:00 MW, Folwell Hall 6, In Person Term Based; 3 cr.

**4001 Beginning French**

(Student Option; Prereq: Grad student)

58639 006 DIS, 18:20-20:25 MTh, Folwell Hall 16, In Person Term Based; Meets With: 006 FREN 1001; Jonathan Fulk; 2 cr.



49369 001 IND, In Person Term Based; 1-6 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49573 001 IND, In Person Term Based; 1-24 cr.

### 8993 Directed Study

(Student Option; )

49965 001 IND, In Person Term Based; 1-6 cr.

### 8994 Directed Instruction

(Student Option; )

49966 001 IND, In Person Term Based; 1-8 cr.

### 8995 Directed Research

(Student Option; )

48349 001 IND, In Person Term Based; 1-8 cr.

## General Dentistry (GEND)

### 5153 Advanced General Dentistry Seminar III

(S-N or Audit; )

49744 001 LEC, In Person Term Based; James Gambucci; 2-10 cr.

### 5256 Advanced General Dentistry Clinic III

(S-N or Audit; )

49745 001 FWK, In Person Term Based; James Gambucci; 5-15 cr.

### 5263 Advanced General Dentistry Clinical Administration III

(S-N or Audit; )

49746 001 FWK, In Person Term Based; James Gambucci; 1-10 cr.

### 5266 Advanced General Dentistry Clinic VI

(S-N or Audit; )

49747 001 FWK, In Person Term Based; James Gambucci; 1-15 cr.

### 6153 General Practice Seminar III

(S-N or Audit; )

49748 001 LEC, In Person Term Based; James Gambucci; 2-10 cr.

### 6256 General Practice Clinic III

(S-N or Audit; )

49749 001 FWK, In Person Term Based; James Gambucci; 10-15 cr.

### 6263 General Practice Clinical Administration III

(S-N or Audit; )

49750 001 FWK, In Person Term Based; James Gambucci; 5-10 cr.

### 6266 General Practice Clinic VI

(S-N or Audit; )

49751 001 FWK, In Person Term Based; James Gambucci; 10-15 cr.

## Genetics, Cell Biol/Developmnt (GCD)

### 3022 Genetics

(Student Option; Prereq: BIOL 2002 or BIOL 1009)

54127 001 LEC, 13:00-14:15 TTh, Fraser Hall 102, In Person Term Based; Anindya Bagchi; 3 cr.

65547 A94 LEC, Online & Distance Lrng (ODL); Robert Brooker; 3 cr.

56344 002 LEC, 12:20-13:10 MWF, Molecular Cellular Biol 3-120, In Person Term Based; York Marahrens; 3 cr.

### 3033 Principles of Cell Biology

(A-F only; Prereq: BIOL 1009 or equiv)

57064 001 LEC, 9:45-11:00 TTh, Bruininks Hall 330, In Person Term Based; G.W. Gant Luxton; 3 cr.

### 3485 Bioinformatic Analysis: Introduction to the Computational Characterization of Genes and Proteins

(A-F only; Prereq: One semester of college biology)

55566 001 LAB, 8:15- 9:30 TTh, Bruininks Hall 131A, In Person Term Based; David Matthes; 3 cr.

### 4005W Cell Biology - Writing Intensive

(A-F only; Prereq: GCD major, [BioC 3021 or BioC 4331], [BioC 4003]W)

58097 001 DIS, 8:00- 8:50 MWThF, Molecular Cellular Biol 2-120, In Person Term Based; Deanna Koepff; 4 cr.

### 4025 Cell Biology, Development & Regeneration Laboratory

(Student Option; Prereq: Biol 4004 or instr consent)

50547 002 LAB, 12:20-16:25 M, Molecular Cellular Biol 2-124, In Person Term Based; Lihia Chen; 3 cr.

54290 003 LAB, 12:20-16:25 W, Molecular Cellular Biol 2-124, In Person Term Based; Ryoko Kuriyama; 3 cr.

53022 001 LEC, 11:15-12:05 M, Molecular Cellular Biol 2-120, In Person Term Based; Ann Rougvie; 3 cr.

### 4034 Molecular Genetics

(Student Option; Prereq: Biol 4003, Biol 4004; advanced bioscience undergrad recommended)

49779 001 LEC, 13:00-14:15 WF, Bruininks Hall 420B, In Person Term Based; David Zarkower; 3 cr.

### 4111 Histology: Cell and Tissue Organization

(Student Option; Prereq: 3033 or Biol 4004 or instr consent)

47261 001 LEC, 9:45-11:00 TTh, Molecular Cellular Biol 2-120, In Person Term Based; Jan Norrander; 4 cr.

47262 002 LAB, 11:15-12:55 TTh, Molecular Cellular Biol 3-146, In Person Term Based; Jan Norrander; 4 cr.

### 4134 Endocrinology

(Student Option; Prereq: Biol 3211 or Biol/BioC 3021 or BioC 4331 or instr consent)

53024 001 LEC, 16:00-17:15 MW, Molecular Cellular Biol 2-120, In Person Term Based; Victoria Iwanij; 3 cr.

### 4143 Human Genetics

(Student Option; Prereq: 3022 or Biol 4003 or instr consent)

48209 001 LEC, 13:00-14:15 TTh, Bruininks Hall 412, In Person Term Based; William Oetting; 3 cr.

### 4151 Molecular Biology of Cancer

(A-F or Audit; Prereq: Biol 4003)

52364 001 LEC, 14:30-15:45 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Tim Starr; 3 cr.

### 4171 Stem Cells in Biology and Medicine

(A-F only; Prereq: BIOL 4003, [BIOL 4004 or concurrent registration is required (or allowed) in BIOL 4004 or instr consent])

57020 001 LEC, 10:10-11:00 MWF, Molecular Cellular Biol 2-120, In Person Term Based; Jeffrey Simon; 3 cr.

### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consentW)

49766 001 IND, In Person Term Based; Kelaine Haas; 1-7 cr.

### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consentW)

49767 001 IND, In Person Term Based; Kelaine Haas; 1-6 cr.

### 4993 Directed Studies

(S-N or Audit; Prereq: instr consent, dept consent)

48168 001 IND, In Person Term Based; Leslie Schiff; 1-7 cr.

### 4994 Directed Research

(S-N or Audit; Prereq: instr consent, dept consent)

48166 001 IND, In Person Term Based; Kelaine Haas; 1-6 cr.

### 8008 Mammalian Gene Transfer and Expression

(A-F or Audit; Prereq: instr consent)

48942 001 DIS, 9:05-11:00 T, , In Person Term Based; Sue Knoblauch; 2 cr.

### 8014 Small RNA Biology

(A-F or Audit; Prereq: MICA 8004 or BIOC 8002 or equiv or instr consent)

57377 001 LEC, 13:00-14:30 Th, , In Person Term Based; Meets With: 001 NSC 8014001 MICA 8014001 PHCL 8014; Subree Subramanian; 2 cr.

### 8073 Advanced Human Genetics

(Student Option; Prereq: 8131 or BIOC 4003 or instr consent)

48693 001 LEC, 13:00-14:15 MW, Bruininks Hal 121, In Person Term Based; Heather Zierhut; 3 cr.

### 8131 Advanced Genetics and Genomics

(Student Option; Prereq: [3022 or BIOL 4003], [BIOC 3021 or BIOC 4331] or instr consent)

53110 001 LEC, 14:30-15:20 MWF, Bruininks Hall 420B, In Person Term Based; David Greenstein; 3 cr.

### 8161 Advanced Developmental Biology

(Student Option; Prereq: [BMBB or MCDB concurrent registration is required (or allowed) in G grad student or GCD4161] or [(GCD 8131 or Biol 4003), Biol 4004, GCD4034]) or instr consent)

47851 001 LEC, 14:30-15:45 TTh, Bruininks Hall 119, In Person Term Based; David Greenstein; 3 cr.

### 8900 Seminar

(S-N or Audit; Prereq: Grad MCDG major or instr consent)

48210 001 LEC, 12:00-12:50 Th, AHC ROOM TBA, In Person Term Based; Sue Knoblauch; 1-2 cr.

### 8912 Genetic Counseling in Practice

(A-F or Audit; Prereq: MCDG MS student with genetic counseling specialization or instr consent)

54128 001 LEC, 10:30-12:30 MW, Moos Health Sci Tower 4-128, In Person Term Based; Heather Zierhut; 4 cr.

### 8914 Ethical and Legal Issues in Genetic Counseling

(A-F or Audit; Prereq: MCDG MS student with genetic counseling specialization or instr consent)

47852 001 LEC, 14:00-16:30 Th, No Room Required, In Person Term Based; Bonnie LeRoy; 3 cr.

### 8920 Special Topics: Genetic Counseling Pre-practicum

(A-F only; Prereq: Grad student or instr consent)

57355 001 DIS, 15:30-17:30 W, Molecular Cellular Biol 2-122, In Person Term Based; Brian Van Ness; 2 cr.

### 8993 Directed Studies

(Student Option; Prereq: MCDG MS student with genetic counseling specialization or instr consent)

67605 003 IND, In Person Term Based; Bonnie LeRoy; 1-5 cr.

56345 002 IND, 10:30-12:30 Th, Moos Health Sci Tower 4-128, In Person Term Based; Matt Bower; 1-5 cr.

48214 001 IND, 8:30-10:30 Th, Moos Health Sci Tower 4-128, In Person Term Based; Sue Knoblauch; 1-5 cr.

### 8994 Research

(S-N or Audit; Prereq: MCDG MS student with genetic counseling specialization or instr consent)

48215 001 IND, 9:00-10:15 M, Moos Health Sci Tower 4-128, In Person Term Based; Sue Knoblauch; 1-5 cr.

## Geographic Information Science (GIS)

### 5572 ArcGIS II

(Student Option; Prereq: [5571, [GEOG 5561 or equiv], in MGIS program] or instr consent)

50233 001 LEC, 18:00-20:50 Th, Blegen Hall 455, In Person Term Based; Mark Lindberg; 3 cr.

### 5575 Practical Surveying for GIS

(Student Option; Prereq: GEOG 5561 or equiv in MGIS program or instr consent)

47742 001 LEC, 18:20-20:50 M, Blegen Hall 445, In Person Term Based; Richard Morey; 2 cr.

### 5577 Spatial Database Design and Administration

(Student Option; Prereq: instr consent)

53239 001 LEC, 18:20-20:50 W, Blegen Hall 455, In Person Term Based; Len Kne; 3 cr.

### 5578 GIS Programming

(Student Option; Prereq: instr consent)

51152 001 LEC, 18:20-20:50 T, Blegen Hall 455, In Person Term Based; David Haynes; 3 cr.

### 8990 Research Problems in GIS

(A-F only; Prereq: MGIS student, instr consent)

61102 005 IND, In Person Term Based; Francis Harvey; 1-6 cr.

61103 007 IND, In Person Term Based; Len Kne; 1-6 cr.

61104 010 IND, In Person Term Based; Mark Lindberg; 1-6 cr.

56011 015 IND, In Person Term Based; Steven Manson; 1-6 cr.



50258 001 IND, In Person Term Based; Susanna McMaster; 1-6 cr.

## Geography (GEOG)

### 1301W Our Globalizing World

(Student Option; GP,WI,SOCS)

46843 007 DIS, 10:10-11:00 F, Blegen Hall 445, In Person Term Based; Kate Derickson; 3 cr.  
46842 006 DIS, 10:10-11:00 F, Blegen Hall 205, In Person Term Based; Kate Derickson; 3 cr.  
46840 003 DIS, 9:05-9:55 F, Blegen Hall 115, In Person Term Based; Kate Derickson; 3 cr.  
46839 001 LEC, 10:10-11:00 MW, Anderson Hall 350, In Person Term Based; Kate Derickson; 3 cr.  
46841 004 DIS, 9:05-9:55 F, Blegen Hall 430, In Person Term Based; Kate Derickson; 3 cr.

### 1372 Geography of Global Cities

(Student Option; GP,SOCS)

57392 001 LEC, 13:00-14:15 MW, Anderson Hall 230, In Person Term Based; ; 3 cr.

### 1403 Biogeography of the Global Garden

(Student Option; BIOL,ENV)

58140 007 LAB, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47220 001 LEC, 11:15-12:05 MWF, Willey Hall 175, In Person Term Based; Daniel Griffin; 4 cr.  
49055 009 LAB, 19:00-20:55 W, Blegen Hall 430, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47221 003 LAB, 8:00-9:55 Th, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47223 006 LAB, 8:00-9:55 W, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47222 004 LAB, 10:10-12:05 T, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47226 011 LAB, 12:20-14:15 Th, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47224 008 LAB, 19:00-20:55 M, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
49054 002 LAB, 8:00-9:55 T, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
50309 005 LAB, 10:10-12:05 Th, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
47225 010 LAB, 12:20-14:15 T, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
50310 012 LAB, 13:25-15:20 Th, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53227 013 LAB, 8:00-9:55 F, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53322 015 LAB, 8:00-9:55 W, Blegen Hall 125, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53228 014 LAB, 10:10-12:05 Th, Blegen Hall 140, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53325 018 LAB, 14:30-16:25 Th, Blegen Hall 425, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53323 016 LAB, 10:10-12:05 T, Blegen Hall 435, In Person Term Based; Kurt Kipfmuller; 4 cr.  
53324 017 LAB, 8:00-9:55 M, Blegen Hall 455, In Person Term Based; Kurt Kipfmuller; 4 cr.

### 1425 Introduction to Meteorology

(Student Option; Prereq: High school algebraENV,PHYS)

51153 001 LEC, 15:35-16:25 MWF, Bruininks Hall 312, In Person Term Based; Meets With: 001 ESPM 1425; Tracy Twine; 4 cr.  
52702 002 LAB, 16:40-17:30 M, Bruininks Hall 312, In Person Term Based; Meets With: 002 ESPM 1425; Tracy Twine; 4 cr.  
53213 003 LAB, 16:40-17:30 W, Bruininks Hall 312, In Person Term Based; Meets With: 003 ESPM 1425; Tracy Twine; 4 cr.

### 1502 Mapping Our World

(Student Option; SOCS,TS)

51155 002 LAB, 11:15-12:05 F, Blegen Hall 115, Primarily Online; Meets With: 003 GEOG 1502004 GEOG 1502005 GEOG 1502006 GEOG 1502; Dudley Bonsal; 3 cr.  
58141 006 LAB, 11:15-12:05 F, Blegen Hall 115, In Person Term Based; Meets With: 002 GEOG 1502003 GEOG 1502004 GEOG 1502005 GEOG 1502; Dudley Bonsal; 3 cr.  
57382 003 LAB, 11:15-12:05 F, Blegen Hall 115, Primarily Online; Meets With: 002 GEOG 1502004 GEOG 1502005 GEOG 1502006 GEOG 1502; Dudley Bonsal; 3 cr.  
57384 005 LAB, 11:15-12:05 F, Blegen Hall 115, Primarily Online; Meets With: 002 GEOG 1502003 GEOG 1502004 GEOG 1502006 GEOG 1502; Dudley Bonsal; 3 cr.  
57383 004 LAB, 11:15-12:05 F, Blegen Hall 115, Primarily Online; Meets With: 002 GEOG 1502003 GEOG 1502005 GEOG 1502006 GEOG 1502; Dudley Bonsal; 3 cr.

51154 001 LEC, 11:15-12:05 MW, Blegen Hall 10, In Person Term Based; Martin Swobodzinski; 3 cr.

### 1905 Freshman Seminar

(Student Option; Prereq: Fr)

69054 002 LEC, 9:45-11:00 MW, Hubert H. Humphrey Center 184, In Person Term Based; 3 cr.  
60598 001 LEC, 9:45-11:00 TTh, Blegen Hall 210, In Person Term Based; Kate Derickson; 3 cr.

### 3101 Geography of the United States and Canada

(Student Option; SOCS,TS)

46601 001 LEC, 10:10-11:00 MWF, Blegen Hall 120, In Person Term Based; John Hart; 4 cr.

### 3111 Geography of Minnesota

(Student Option; )

58053 002 LAB, 13:25-14:15 T, Room TBA, In Person Term Based; Roderick Squires; 3 cr.

### 3212 Producing India

(Student Option; )

61069 001 LEC, In Person Term Based; Nikhil Anand; 3 cr.

### 3331 Geography of the World Economy

(Student Option; GP,SOCS)

61071 001 LEC, 13:00-14:15 MW, Blegen Hall 155, In Person Term Based; Vinay Gidwani; 3 cr.

### 3371W Cities, Citizens, and Communities

(Student Option; DSJ,WI)

50479 001 LEC, 9:45-11:00 TTh, Anderson Hall 250, In Person Term Based; George Henderson; 4 cr.

### 3374V Honors: The City in Film

(A-F only; Prereq: honorsAH,WI)

58049 001 DIS, In Person Term Based; 4 cr.

### 3374W The City in Film

(Student Option; AH,WI)

58143 003 DIS, 14:30-16:25 Th, Blegen Hall 125, In Person Term Based; George Henderson; 4 cr.  
58142 002 DIS, 14:30-16:25 M, Blegen Hall 330, In Person Term Based; George Henderson; 4 cr.  
58050 001 LEC, 18:00-21:30 W, Blegen Hall 130, In Person Term Based; Lorena Munoz; 4 cr.

### 3377 Music in the City

(A-F or Audit; DSJ)

59332 001 LEC, 17:00-19:30 W, Blegen Hall 155, In Person Term Based; Arun Saldanha; 3 cr.

### 3379 Environment and Development in the Third World

(A-F or Audit; Prereq: Soph or jr or srENV,SOCS)

61083 001 LEC, 17:00-19:30 Th, Anderson Hall 230, In Person Term Based; Abdi Samatar; 3 cr.

### 3381W Population in an Interacting World

(Student Option; GP,WI,SOCS)

53017 001 LEC, 13:00-14:15 TTh, Blegen Hall 10, In Person Term Based; Meets With: 001 GLOS 3701W; Nicole Simms; 4 cr.

### 3388 Going Places: Geographies of Travel and Tourism

(A-F only; CIV)

61082 001 LEC, 13:00-14:15 MW, Blegen Hall 230, In Person Term Based; Arun Saldanha; 3 cr.

### 3401 Geography of Environmental Systems and Global Change

(A-F or Audit; ENV)

51156 001 LEC, 10:10-11:00 MWF, Anderson Hall 230, In Person Term Based; Katherine Klink; 4 cr.

### 3511 Principles of Cartography

(Student Option; Prereq: 3 cr in geog or instr consent)

58116 002 LAB, 11:15-13:10 T, Blegen Hall 140, In Person Term Based; Meets With: 002 GEOG 5511; Mark Lindberg; 4 cr.  
58117 003 LAB, 11:15-13:10 Th, Blegen Hall 240, In Person Term Based; Meets With: 003 GEOG 5511; Mark Lindberg; 4 cr.  
58051 001 LAB, 11:15-12:30 MW, Blegen Hall 445, In Person Term Based; Mark Lindberg; 4 cr.

### 3900 Topics in Geography

(Student Option; )

55734 001 LEC, 13:00-14:15 MW, Blegen Hall 140, In Person Term Based; Katherine Klink; 3 cr.

### 3985V Honors Senior Project Seminar

(Student Option; Prereq: Honors, instr consentWI)

48715 001 LEC, 12:20-13:10 MWF, Social Sciences Building 278, In Person Term Based; Meets With: 001 GEOG 3985W; John Hart; 4 cr.

### 3985W Senior Project Seminar

(Student Option; Prereq: [jr or sr], instr consentWI)

47008 001 LEC, 12:20-13:10 MWF, Social Sciences Building 278, In Person Term Based; Meets With: 001 GEOG 3985W; John Hart; 4 cr.

### 3992 Directed Reading

(Student Option; Prereq-instr consent, dept consent, college consent.)

47839 001 IND, In Person Term Based; 1-8 cr.

### 3993 Directed Studies

(Student Option; Prereq-instr consent, dept consent, college consent.)

47838 001 IND, In Person Term Based; 1-8 cr.

### 3993H Honors: Directed Studies

(Student Option; Prereq honors, instr consent, dept consent, college consent.)

49709 001 IND, In Person Term Based; 1-8 cr.

### 3994 Directed Research

(Student Option; Prereq instr consent, dept consent, college consent.)

47840 001 IND, In Person Term Based; Jeanette Simmonds; 1-8 cr.

### 3994H Honors: Directed Research

(Student Option; Prereq honors, instr consent, dept consent, college consent.)

49710 001 IND, In Person Term Based; ; 1-8 cr.

### 4002W Environmental Thought and Practice

(Student Option; Prereq: Jr or srWI)

53499 001 LEC, 13:00-14:15 MW, Blegen Hall 125, In Person Term Based; Bruce Braun; 3 cr.

### 5361 Geography and Real Estate

(Student Option; )

58052 001 LEC, 13:00-14:15 ThF, Blegen Hall 145, In Person Term Based; Roderick Squires; 4 cr.

### 5393 Rural Landscapes and Environments

(Student Option; )

46609 001 LEC, 13:25-14:15 MWF, Room TBA, In Person Term Based; John Hart; 4 cr.

### 5426 Climatic Variations

(Student Option; Prereq: 1425 or 3401 or instr consent)

55724 001 LEC, 9:45-11:00 WF, Blegen Hall 140, In Person Term Based; Scott St. George; 3 cr.

### 5511 Principles of Cartography

(Student Option; )

58118 001 LEC, 9:45-11:00 TTh, Social Sciences Building 278, In Person Term Based; Mark Lindberg; 3 cr.  
58119 002 LAB, 11:15-13:10 T, Blegen Hall 140, In Person Term Based; Meets With: 002 GEOG 3511; Mark Lindberg; 3 cr.  
58120 003 LAB, 11:15-13:10 Th, Blegen Hall 240, In Person Term Based; Meets With: 003 GEOG 3511; Mark Lindberg; 3 cr.

### 5530 Cartography Internship

(S-N or Audit; Prereq: instr consent)

47175 001 FWK, In Person Term Based; 2-7 cr.

### 5563 Advanced Geographic Information Science

(Student Option; Prereq: B or better in 3561 or 5561 or instr consent)

54453 002 LAB, 16:15-17:15 W, Blegen Hall 455, In Person Term Based; Francis Harvey; 3 cr.

### 5839 Introduction to Dendrochronology

(Student Option; Prereq: [1403, [BIOL 1001 or BIOL 1009 or equiv]] or instr consent)

56735 001 LEC, 16:00-17:15 TTh, Room TBA, In Person Term Based; Scott St. George; 3 cr.

### 8106 Seminar: Social and Cultural Geography

(Student Option; Prereq: instr consent)

61081 001 LEC, 14:30-17:30 T, Hubert H. Humphrey Center 15, In Person Term Based; Lorena Munoz; 3 cr.

**8200 Seminar: Urban Geography**

(A-F or Audit; )  
60701 001 LEC, 14:30-17:00 W, Social Sciences Building  
278, In Person Term Based; Brenda Kayzar; 2-3 cr.

**8230 Theoretical Geography**

(Student Option; Prereq: instr consent)  
61072 001 LEC, 15:00-17:30 W, Blegen Hall 135, In Person  
Term Based; George Henderson; 3 cr.

**8260 Seminar: Physical Geography**

(Student Option; )  
59554 002 LEC, 14:00-17:00 W, Blegen Hall 235, In Person  
Term Based; Scott St. George; 2 cr.  
56728 001 LEC, 9:30-12:30 Th, Blegen Hall 435, In Person  
Term Based; Scott St. George; 2 cr.

**8280 Biogeography**

(Student Option; Prereq: instr consent)  
61076 001 LEC, 14:00-17:00 M, Blegen Hall 235, In Person  
Term Based; Kurt Kipfmuller; 3 cr.

**8302 Research Development**

(S-N or Audit; Prereq: instr consent)  
57461 001 LEC, 8:00- 9:55 W, Blegen Hall 335, In Person  
Term Based; Abdi Samatar; 3 cr.

**8333 FTE: Masters**

(No Grade Associated; Prereq: Master's student,  
adviser and DGS consent)  
49123 001 IND, In Person Term Based; 1 cr.

**8336 Development Theory and the State**

(A-F or Audit; )  
61085 001 LEC, 8:00-10:30 W, Blegen Hall 230, In Person  
Term Based; Abdi Samatar; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student,  
adviser and DGS consent)  
49221 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who  
has not passed prelim oral; no required consent for  
1st/2nd registrations, up to 12 combined cr; dept  
consent for 3rd/4th registrations, up to 24 combined  
cr; doctoral student admitted before summer 2007 may  
register up to four times, up to 60 combined cr)  
49325 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester  
or summer; 10 cr total required [Plan A only])  
49410 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester  
or summer; 24 cr required)  
49323 001 IND, In Person Term Based; 1-24 cr.

**8970 Directed Readings**

(Student Option; Prereq: dept consent)  
52839 130 IND, In Person Term Based; 1-5 cr.  
52814 005 IND, In Person Term Based; ; 1-5 cr.  
52835 110 IND, In Person Term Based; ; 1-5 cr.  
52816 015 IND, In Person Term Based; ; 1-5 cr.  
52817 020 IND, In Person Term Based; ; 1-5 cr.  
52827 070 IND, In Person Term Based; ; 1-5 cr.  
52834 105 IND, In Person Term Based; ; 1-5 cr.  
52838 125 IND, In Person Term Based; ; 1-5 cr.  
52832 095 IND, In Person Term Based; Abdi Samatar; 1-5 cr.  
52830 085 IND, In Person Term Based; Abigail Neely; 1-5 cr.  
52831 090 IND, In Person Term Based; Arun Saldanha; 1-5  
cr.  
54827 043 IND, In Person Term Based; Brenda Kayzar; 1-5  
cr.  
52815 010 IND, In Person Term Based; Bruce Braun; 1-5 cr.  
52833 100 IND, In Person Term Based; Eric Sheppard; 1-5  
cr.  
52820 035 IND, In Person Term Based; Francis Harvey; 1-5  
cr.  
52821 040 IND, In Person Term Based; George Henderson;  
1-5 cr.  
48972 001 IND, In Person Term Based; Glen Powell; 1-5 cr.  
52824 055 IND, In Person Term Based; Helga Leitner; 1-5 cr.  
52819 030 IND, In Person Term Based; John Hart; 1-5 cr.  
52823 050 IND, In Person Term Based; Katherine Klink; 1-5  
cr.  
52822 045 IND, In Person Term Based; Kurt Kipfmuller; 1-5  
cr.  
52825 060 IND, In Person Term Based; Mark Lindberg; 1-5  
cr.

52837 120 IND, In Person Term Based; Martin Swobodzinski;  
1-5 cr.  
52828 075 IND, In Person Term Based; Robert Mc Master;  
1-5 cr.  
52836 115 IND, In Person Term Based; Roderick Squires; 1-5  
cr.  
52826 065 IND, In Person Term Based; Steven Manson; 1-5  
cr.  
52829 080 IND, In Person Term Based; Susanna McMaster;  
1-5 cr.  
52818 025 IND, In Person Term Based; Vinay Gidwani; 1-5  
cr.

**8990 Research Problems in Geography**

(Student Option; Prereq: dept consent)  
52858 080 IND, In Person Term Based; 1-5 cr.  
52868 130 IND, In Person Term Based; 1-5 cr.  
52843 005 IND, In Person Term Based; ; 1-5 cr.  
52845 015 IND, In Person Term Based; ; 1-5 cr.  
52846 020 IND, In Person Term Based; ; 1-5 cr.  
52856 070 IND, In Person Term Based; ; 1-5 cr.  
52859 085 IND, In Person Term Based; ; 1-5 cr.  
52863 105 IND, In Person Term Based; ; 1-5 cr.  
52864 110 IND, In Person Term Based; ; 1-5 cr.  
52867 125 IND, In Person Term Based; ; 1-5 cr.  
52853 055 IND, In Person Term Based; ; 1-5 cr.  
52862 100 IND, In Person Term Based; ; 1-5 cr.  
52866 120 IND, In Person Term Based; ; 1-5 cr.  
52861 095 IND, In Person Term Based; Abdi Samatar; 1-5 cr.  
52860 090 IND, In Person Term Based; Arun Saldanha; 1-5  
cr.  
54828 043 IND, In Person Term Based; Brenda Kayzar; 1-5  
cr.  
52844 010 IND, In Person Term Based; Bruce Braun; 1-5 cr.  
52849 035 IND, In Person Term Based; Francis Harvey; 1-5  
cr.  
52850 040 IND, In Person Term Based; George Henderson;  
1-5 cr.  
48973 001 IND, In Person Term Based; Glen Powell; 1-5 cr.  
52848 030 IND, In Person Term Based; John Hart; 1-5 cr.  
52852 050 IND, In Person Term Based; Katherine Klink; 1-5  
cr.  
52851 045 IND, In Person Term Based; Kurt Kipfmuller; 1-5  
cr.  
52854 060 IND, In Person Term Based; Mark Lindberg; 1-5  
cr.  
52857 075 IND, In Person Term Based; Robert Mc Master;  
1-5 cr.  
52865 115 IND, In Person Term Based; Roderick Squires; 1-5  
cr.  
52855 065 IND, In Person Term Based; Steven Manson; 1-5  
cr.  
52847 025 IND, In Person Term Based; Vinay Gidwani; 1-5  
cr.

**Geriatrics (GERI)****7100 Oral Health Services for Older Adults Seminar**

(Student Option; )  
48499 001 LEC, In Person Term Based; Stephen Shuman; 2  
cr.

**7200 Advanced Clinical Geriatric Dentistry**

(A-F or Audit; )  
48491 001 FWK, In Person Term Based; Stephen Shuman;  
1-10 cr.

**7210 Geriatric Hospital Dentistry**

(Student Option; )  
48502 001 FWK, In Person Term Based; John Ofstehage; 1-6  
cr.

**German (GER)****1001 Beginning German**

(Student Option; )  
47337 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 16, In  
Person Term Based; Meets With: 001 GER 4001; 5 cr.  
52995 003 DIS, 12:20-13:10 MTWThF, Folwell Hall 31, In  
Person Term Based; Meets With: 003 GER 4001; ; 5 cr.  
47338 002 DIS, 9:05- 9:55 MTWThF, Folwell Hall 16, In  
Person Term Based; Meets With: 002 GER 4001; ; 5 cr.  
50202 004 DIS, 18:20-20:25 MW, Folwell Hall 28, In Person  
Term Based; Meets With: 004 GER 4001; ; 5 cr.

**1002 Beginning German**

(Student Option; Prereq: 1001)  
47378 001 DIS, In Person Term Based; Meets With: 001 GER  
4002; 5 cr.

47380 003 DIS, 12:20-13:10 MTWThF, Folwell Hall 16, In  
Person Term Based; Meets With: 003 GER 4002; ; 5 cr.  
47382 005 DIS, 18:20-20:25 MW, Folwell Hall 5, In Person  
Term Based; Meets With: 005 GER 4002; ; 5 cr.  
47381 004 DIS, 14:30-15:20 MTWThF, Folwell Hall 31, In  
Person Term Based; Meets With: 004 GER 4002; ; 5 cr.  
47379 002 DIS, 10:10-11:00 MTWThF, Folwell Hall 123, In  
Person Term Based; Meets With: 002 GER 4002; ; 5 cr.

**1003 Intermediate German**

(Student Option; Prereq: 1002 or Entrance Proficiency  
Test)  
47384 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 30, In  
Person Term Based; Meets With: 001 GER 4003; 5 cr.  
57699 004 DIS, 18:20-20:25 TTh, Folwell Hall 116, In Person  
Term Based; Meets With: 004 GER 4003; 5 cr.  
50203 003 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 134, In  
Person Term Based; Meets With: 003 GER 4003; 5 cr.  
47385 002 DIS, 11:15-12:05 MTWThF, Kolthoff Hall 135, In  
Person Term Based; Meets With: 002 GER 4003; 5 cr.  
68816 700 DIS, In Person Term Based; Michele Strassburg;  
5 cr.

**1004 Intermediate German**

(Student Option; Prereq: 1003 or completion of  
Entrance Proficiency Test at 1004 level)  
68821 704 DIS, In Person Term Based; Amanda Stenberg; 5  
cr.  
68822 705 DIS, In Person Term Based; Brittany Elsen; 5 cr.  
68818 701 DIS, In Person Term Based; Kelly Dirks; 5 cr.  
68823 706 DIS, In Person Term Based; Lynn Strom; 5 cr.  
68817 700 DIS, In Person Term Based; Margaret Cody; 5 cr.  
68819 702 DIS, In Person Term Based; Michele Strassburg;  
5 cr.  
68820 703 DIS, In Person Term Based; Shelley Orr; 5 cr.  
47390 005 DIS, 18:20-20:25 TTh, Folwell Hall 4, In Person  
Term Based; Meets With: 005 GER 4004; Virginia  
Steinhagen; 5 cr.  
47386 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 120, In  
Person Term Based; Meets With: 001 GER 4004; Virginia  
Steinhagen; 5 cr.  
47387 002 DIS, 9:05- 9:55 MTWThF, Folwell Hall 31, In  
Person Term Based; Meets With: 002 GER 4004; Virginia  
Steinhagen; 5 cr.  
47389 004 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 133, In  
Person Term Based; Meets With: 004 GER 4004; Virginia  
Steinhagen; 5 cr.  
47388 003 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 136, In  
Person Term Based; Meets With: 003 GER 4004; Virginia  
Steinhagen; 5 cr.

**1022 Beginning German Review**

(Student Option; Prereq: Placement above 1001)  
49324 001 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 137, In  
Person Term Based; ; 5 cr.

**3011W Conversation and Composition**

(Student Option; Prereq: 1004WI)  
47424 001 DIS, 14:30-16:25 MW, Folwell Hall 30, In Person  
Term Based; 4 cr.  
50481 002 DIS, 8:00- 9:55 TTh, Peik Hall 155, In Person  
Term Based; 4 cr.

**3012W Conversation and Composition**

(Student Option; Prereq: 3011WI)  
57006 001 DIS, 11:15-12:30 WF, Folwell Hall 28, In Person  
Term Based; Meagan Tripp; 3 cr.

**3021 Business German**

(Student Option; Prereq: 3011 or equiv)  
60427 001 DIS, 18:20-20:50 Th, Folwell Hall 107, In Person  
Term Based; Arsenia Ianeva-Lockney; 3 cr.

**3104W Reading and Analysis of German Literature**

(Student Option; Prereq: 3011LITR,WI)  
47789 001 DIS, 9:45-11:00 MW, Folwell Hall 8, In Person  
Term Based; 3 cr.

**3421 18th-Century German Literature**

(Student Option; Prereq: 3011)  
67391 001 LEC, 16:00-17:15 TTh, Folwell Hall 119, In  
Person Term Based; Arlene Teraoka; 3 cr.

**3510 Topics in German Studies**

(Student Option; Prereq: 3011)  
68550 001 DIS, 9:45-11:00 TTh, Folwell Hall 108, In Person  
Term Based; 3 cr.

**3604W Introduction to German Cinema**

(Student Option; AH,WI,GP)  
67394 001 LEC, 17:30-21:30 W, Folwell Hall 108, In Person  
Term Based; Nichole Neuman; 3 cr.

**3651 Thinking Environment: Green Culture, German Literature and Global Debates**

(Student Option; ENV,LITR)  
67395 001 DIS, 13:00-14:15 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 GER 5610; Charlotte Melin; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
47755 001 IND, In Person Term Based; 1-4 cr.

**4001 Beginning German**

(Student Option; Prereq: Grad student)  
53326 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 001 GER 1001; 2 cr.  
53327 002 DIS, 9:05- 9:55 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 002 GER 1001; ; 2 cr.  
53329 004 DIS, 18:20-20:25 MW, Folwell Hall 28, In Person Term Based; Meets With: 004 GER 1001; ; 2 cr.  
53328 003 DIS, 12:20-13:10 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 003 GER 1001; ; 2 cr.

**4002 Beginning German**

(Student Option; Prereq: Grad student)  
53331 001 DIS, In Person Term Based; Meets With: 001 GER 1002; 2 cr.  
53335 005 DIS, 18:20-20:25 MW, Folwell Hall 5, In Person Term Based; Meets With: 005 GER 1002; ; 2 cr.  
53333 003 DIS, 12:20-13:10 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 003 GER 1002; ; 2 cr.  
53334 004 DIS, 14:30-15:20 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 004 GER 1002; ; 2 cr.  
53332 002 DIS, 10:10-11:00 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 002 GER 1002; ; 2 cr.

**4003 Intermediate German**

(Student Option; Prereq: Grad student)  
53336 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 001 GER 1003; 2 cr.  
57700 004 DIS, 18:20-20:25 TTh, Folwell Hall 116, In Person Term Based; Meets With: 004 GER 1003; 2 cr.  
53338 003 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 134, In Person Term Based; Meets With: 003 GER 1003; 2 cr.  
53337 002 DIS, 11:15-12:05 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 002 GER 1003; 2 cr.

**4004 Intermediate German**

(Student Option; Prereq: Grad student)  
53343 005 DIS, 18:20-20:25 TTh, Folwell Hall 4, In Person Term Based; Meets With: 005 GER 1004; Virginia Steinhagen; 2 cr.  
53340 002 DIS, 9:05- 9:55 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 002 GER 1004; Virginia Steinhagen; 2 cr.  
53339 001 DIS, 8:00- 8:50 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 001 GER 1004; Virginia Steinhagen; 2 cr.  
53342 004 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 133, In Person Term Based; Meets With: 004 GER 1004; Virginia Steinhagen; 2 cr.  
53341 003 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 003 GER 1004; Virginia Steinhagen; 2 cr.

**5610 German Literature in Translation**

(Student Option; Prereq: No knowledge of German required; cr toward major or minor requires reading in German)  
67396 001 DIS, 13:00-14:15 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 GER 3651; Charlotte Melin; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
47739 001 IND, In Person Term Based; ; 1-4 cr.

**8220 Seminar in 18th-Century German Literature and Culture**

(Student Option; )  
68551 001 LEC, 14:30-16:25 Th, Folwell Hall 3, In Person Term Based; 3 cr.

**8240 Seminar in 20th-Century German Literature and Culture**

(A-F or Audit; )  
67397 001 LEC, 14:30-16:25 T, Folwell Hall 30, In Person Term Based; Matthias Rothe; 3 cr.

**8994 Directed Research**

(Student Option; Prereq: instr consent, dept consent; may be taken as tutorial with instr consent)  
47817 001 IND, In Person Term Based; 1-3 cr.

**German, Scandinavian, and Dutch (GSD)****3512W Imagined Communities:**

**German and European, Culture and Controversies, 1700 to Present**  
(Student Option; WI)

47732 001 DIS, 11:15-12:30 TTh, Folwell Hall 4, In Person Term Based; James Parente; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49162 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49254 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49358 001 IND, In Person Term Based; 1-6 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49560 001 IND, In Person Term Based; 1-24 cr.

**Gerontology (GERO)****5110 Biology of Aging**

(Student Option; )  
53145 001 LEC, 16:40-19:40 M, , In Person Term Based; LeAnn Snow; 3 cr.

**5115 Introduction to Geriatrics**

(S-N only; )  
59527 001 LEC, Completely Online; Robert Kane; 2 cr.

**5125 Gerontology Service Learning**

(Student Option; )  
59528 001 LEC, In Person Term Based; Edward Ratner; 3 cr.

**8022 Fostering a Career in Aging Research**

(S-N only; Prereq: Grad students/post-doctoral fellows involved in National Institutes on Aging training grant Functional Proteomics of Aging or grad students or post-doctoral fellows with instr consent)  
59526 001 DIS, In Person Term Based; Deborah Ferrington; 1 cr.

**Global Studies (GLOS)****1112 Globalization and Social Justice**

(A-F only; GP)  
58406 001 LEC, 9:45-11:00 MW, Rapson Hall 54, In Person Term Based; William Viestenz; 3 cr.

**3143 Living in the Global**

(A-F only; CIV)  
59931 001 LEC, 13:25-14:15 MWF, Blegen Hall 425, In Person Term Based; Thomas Wolfe; 3 cr.

**3145 Theoretical Approaches to Global Studies**

(A-F or Audit; Prereq: 6 cr in social sciences including 1015W or GEOG 1301 or HIST 1012 or HIST 1018 or POL 1025 or instr consent)

50149 006 DIS, 11:15-12:05 F, Blegen Hall 105, In Person Term Based; 4 cr.  
50145 002 DIS, 10:10-11:00 F, Blegen Hall 260, In Person Term Based; 4 cr.  
50146 003 DIS, 10:10-11:00 F, Blegen Hall 430, In Person Term Based; 4 cr.  
50148 005 DIS, 11:15-12:05 F, Blegen Hall 430, In Person Term Based; 4 cr.  
50147 004 DIS, 10:10-11:00 F, Blegen Hall 115, In Person Term Based; Meets With: 003 GLOS 3145H; 4 cr.  
47537 001 LEC, 10:10-11:00 MW, Anderson Hall 210, In Person Term Based; Meets With: 001 GLOS 3145H; Michael Goldman; 4 cr.

**3145H Theoretical Approaches to Global Studies**

(A-F or Audit; Prereq: [6 cr in social sciences including at least one of the following [1015W or GEOG 1301 or HIST 1012 or HIST 1018 or POL 1025], Honors student]) or instr consent)

67724 003 DIS, 10:10-11:00 F, Blegen Hall 115, In Person Term Based; Meets With: 004 GLOS 3145; 4 cr.  
48983 001 LEC, 10:10-11:00 MW, Anderson Hall 210, In Person Term Based; Meets With: 001 GLOS 3145; Michael Goldman; 4 cr.  
50144 002 DIS, 10:10-11:00 F, Blegen Hall 210, In Person Term Based; Michael Goldman; 4 cr.

**3305 Life for Sale: Global Debates on Environment, Science, and Society**

(A-F only; Prereq: At least soph)  
67382 001 LEC, In Person Term Based; Susan Craddock; 3 cr.

**3402 Human Rights Internship**

(A-F or Audit; Prereq: dept consent)  
51556 001 LEC, 13:25-15:20 M, Blegen Hall 260, In Person Term Based; Barbara Frey; 3 cr.

**3412 What is Equality?**

(A-F only; CIV)  
68061 001 LEC, In Person Term Based; 3 cr.

**3550V Honors Course: Supervised Research Paper**

(A-F only; Prereq: dept consentWI)  
59584 002 LEC, 14:30-16:25 W, Blegen Hall 110, In Person Term Based; Meets With: 002 GLOS 3981W; 4 cr.  
49711 001 LEC, 11:15-13:10 T, Blegen Hall 240, In Person Term Based; Meets With: 001 GLOS 3981W; Stuart McLean; 4 cr.

**3701W Population in an Interacting World**

(Student Option; GP,WI,SOCs)  
53859 001 LEC, 13:00-14:15 TTh, Blegen Hall 10, In Person Term Based; Meets With: 001 GEOG 3381W; Nicole Simms; 4 cr.

**3705 Transnational Migration: Networks of Power and Places**

(A-F or Audit; Prereq: Soph, jr, or srGP)  
67383 001 LEC, 13:00-14:15 MW, Blegen Hall 220, In Person Term Based; Meets With: 001 SOC 3505; Cawo Abdi; 3 cr.

**3981W Major Project Seminar**

(A-F or Audit; Prereq: dept consentWI)  
59583 002 LEC, 14:30-16:25 W, Blegen Hall 110, In Person Term Based; Meets With: 002 GLOS 3550V; 3 cr.  
47926 001 LEC, 11:15-13:10 T, Blegen Hall 240, In Person Term Based; Meets With: 001 GLOS 3550V; Stuart McLean; 3 cr.

**3993 Directed Study**

(Student Option; Prereq instr consent, dept consent, college consent.)  
48271 001 IND, In Person Term Based; 1-5 cr.

**4315 Never Again! Memory & Politics after Genocide**

(A-F only; Prereq: Recommended Soc 1001 or 1011VGP)  
69055 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey Center 25, In Person Term Based; Meets With: 001 SOC 4315; Alejandro Baer; 3 cr.

**4344 Europe and its Margins**

(A-F only; Prereq: One course in [ANTH or GLOS])  
67820 001 LEC, 11:15-12:30 MW, Blegen Hall 115, In Person Term Based; Meets With: 001 ANTH 4344; Stuart McLean; 3 cr.

**5403 Human Rights Advocacy**

(Student Option; Prereq: Grad student)  
60376 001 LEC, 14:30-17:15 W, Blegen Hall 230, In Person Term Based; Meets With: 001 LAW 6058; Barbara Frey; 3 cr.

**5993 Directed Studies**

(Student Option; )  
60192 001 IND, In Person Term Based; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq instr consent, dept consent, college consent.)

60193 001 IND, In Person Term Based; 1-4 cr.

**Graduate School (GRAD)****999 Graduate Active Status**(No Grade Associated; Prereq: Grad studentWI)  
50764 001 IND, In Person Term Based; 0 cr.**5102 Preparation for University Teaching for Nonnative English Speakers**

(S-N only; Prereq: English Language Proficiency Rating of 4, current or anticipated TA assignment, instr consent)

51567 001 LEC, 16:40-17:30 M, Ford Hall 170, In Person Term Based; Elena Stetsenko; 2 cr.

51572 003 LAB, 12:20-13:10 Th, 400 University Office Plaza, In Person Term Based; Barbara Beers; 2 cr.

51573 004 LAB, 13:25-14:15 W, 400 University Office Plaza, In Person Term Based; Barbara Beers; 2 cr.

51574 005 LAB, 11:15-12:05 Th, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

52710 008 LAB, 12:20-13:10 W, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

52711 009 LAB, 14:30-15:20 Th, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

54913 007 LAB, 10:10-11:00 F, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

51575 006 LAB, 11:15-12:05 F, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

54914 012 LAB, 13:25-14:15 F, 400 University Office Plaza, In Person Term Based; Elena Stetsenko; 2 cr.

**5105 Practicum in University Teaching for Nonnative English Speakers**

(S-N or Audit; Prereq: [5102 or English Language Proficiency Rating of 2 or 3], [current or anticipated TA assignment])

52717 008 LAB, 10:10-11:00 T, 400 University Office Plaza, In Person Term Based; Caroline Toscano; 1-2 cr.

52718 009 LAB, 10:10-11:00 M, 400 University Office Plaza, In Person Term Based; Caroline Toscano; 1-2 cr.

53265 012 LAB, 14:30-15:20 T, 400 University Office Plaza, In Person Term Based; Caroline Toscano; 1-2 cr.

52719 010 LAB, 14:30-15:20 M, 400 University Office Plaza, In Person Term Based; Caroline Toscano; 1-2 cr.

52720 011 LAB, 15:35-16:25 M, 400 University Office Plaza, In Person Term Based; Caroline Toscano; 1-2 cr.

52714 005 LAB, 9:05-9:55 Th, 400 University Office Plaza, In Person Term Based; Colleen Meyers; 1-2 cr.

52715 006 LAB, 10:10-11:00 Th, 400 University Office Plaza, In Person Term Based; Colleen Meyers; 1-2 cr.

51569 002 LAB, 10:10-11:00 W, 400 University Office Plaza, In Person Term Based; Colleen Meyers; 1-2 cr.

51570 003 LAB, 11:15-12:05 W, 400 University Office Plaza, In Person Term Based; Colleen Meyers; 1-2 cr.

51571 004 LAB, 15:35-16:25 T, 400 University Office Plaza, In Person Term Based; Colleen Meyers; 1-2 cr.

52716 007 LEC, 16:40-17:30 T, Ford Hall 151, In Person Term Based; Caroline Toscano; 1-2 cr.

51568 001 LEC, 16:40-17:30 M, Bruininks Hall 131A, In Person Term Based; Colleen Meyers; 1-2 cr.

**8101 Teaching in Higher Education**

(Student Option; Prereq: Non-Degree Students: contact pffcollege consentum.umn.edu with questions about registration. If adding a section after first class meeting, contact your instructor as soon as you enroll.)

48837 001 LEC, 14:30-17:25 Th, Hanson Hall, Room 1-103, In Person Term Based; Anita Gonzalez; 3 cr.

48838 002 LEC, 9:05-12:05 F, Ford Hall 110, In Person Term Based; Christina Petersen; 3 cr.

48839 003 LEC, 13:00-16:00 W, Amundson Hall 240, In Person Term Based; Paul Ching; 3 cr.

**8102 Practicum for Future Faculty**

(Student Option No Audit; Prereq: [8101 or equiv], [native English speaker or [ibTOEFL score of 27-30] or [ELP score of 1 from CTL]])

48840 001 LEC, 14:30-17:30 T, Ford Hall 150, In Person Term Based; Bill Rozaitis; 3 cr.

**8200 Teaching and Learning Topics in Higher Education**

(A-F only; )

60956 001 LEC, Completely Online; Ilene Alexander; 1 cr.

**3006 Grand Challenge: Climate Change - Myths, Mysteries, and Uncertainties**

(A-F only; ENV)

68710 001 LEC, 8:45-10:00 TTh, Green Hall 110, In Person Term Based; Timothy Griffis; 3 cr.

**3007 Grand Challenge: Toward Conquest of Disease**

(A-F only; ENV)

68711 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 GCC 5007; Clarence Lehman; 3 cr.

**5007 Grand Challenge: Toward Conquest of Disease**

(A-F only; ENV)

68712 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 GCC 3007; Clarence Lehman; 3 cr.

**Graphic Design (GDES)****1311 Foundations: Drawing and Design in Two and Three Dimensions**

(A-F or Audit; Prereq: [Apparel design or graphic design or interior design] pre-major)

56123 001 LAB, 11:45-14:45 MW, McNeal Hall 258, In Person Term Based; James Boyd Brent; 4 cr.

56124 002 LAB, 15:00-18:00 TTh, McNeal Hall 258, In Person Term Based; Julie Hillman; 4 cr.

68721 003 LAB, 15:00-18:00 TTh, Alderman Hall 415, In Person Term Based; Julie Hillman; 4 cr.

**1312 Foundations: Color and Design in Two and Three Dimensions**

(A-F or Audit; Prereq: [Apparel design or graphic design or interior design] pre-major)

56126 002 LAB, 16:30-18:00 W, McNeal Hall 262, Partially Online; 4 cr.

56125 001 LAB, 15:00-16:30 W, McNeal Hall 262, Partially Online; 4 cr.

68220 004 LAB, 19:45-21:15 W, McNeal Hall 262, Partially Online; Julie Hillman; 4 cr.

68219 003 LAB, 18:15-19:45 W, McNeal Hall 262, Partially Online; Julie Hillman; 4 cr.

**1315 Foundations: The Graphic Studio**

(A-F or Audit; Prereq: Graphic design premajor design minor or instr consent)

56128 002 LAB, 8:30-11:30 MW, McNeal Hall 310, In Person Term Based; 4 cr.

56127 001 LAB, 11:45-14:45 TTh, McNeal Hall 316, In Person Term Based; Julie Hillman; 4 cr.

**2342 Web Design**

(A-F or Audit; Prereq: 1311, 1312, 1315, [[GDes major or pre-major], semester of portfolio review] or design minor)

57647 002 LAB, 18:15-20:25 MW, McNeal Hall 336, In Person Term Based; 3 cr.

57646 001 LAB, 11:45-13:55 MW, McNeal Hall 316, In Person Term Based; 3 cr.

**2345 Typography**

(A-F or Audit; Prereq: 1311, 1312, 1315, DES 1101, [graphic design major or premajor or design minor])

59779 002 LAB, 8:30-11:30 TTh, McNeal Hall 336, In Person Term Based; 4 cr.

56136 001 LAB, 8:30-11:30 MW, McNeal Hall 336, In Person Term Based; Carol Waldron; 4 cr.

**2361 Design Process: Photography**

(A-F or Audit; Prereq: [1311 or DHA 1311], [1312 or DHA 1312], [graphic design major or grad student or design minor or instr consent])

60632 001 LAB, 8:30-14:00 F, McNeal Hall 336, In Person Term Based; Julie Hillman; 3 cr.

**2399W Design and its Discontents: Design, Society, Economy and Culture**

(A-F only; Prereq: 1311, 1312, 1315, DES 1101, [graphic design major or pre-major or design minor]WI)

57648 001 LEC, 18:15-19:30 MW, McNeal Hall 10, In Person Term Based; 3 cr.

**3311 Illustration**

(A-F only; Prereq: GDes 1311 or ArtS 1101 or PDES 3702 or LA 1301 or Arch 3250 or Arch 2301 or instructor permission)

60547 001 LAB, 8:30-10:40 MW, McNeal Hall 258, In Person Term Based; Meets With: 001 GDES 5311; 3 cr.

**3312 Color and Form in Surface Design**

(A-F or Audit; Prereq: [1311 or DHA 1311], [1312 or DHA 1312], [graphic design or apparel design or design minor or instr consent])

56139 002 LAB, 11:45-14:45 TTh, McNeal Hall B9, In Person Term Based; Carol Waldron; 4 cr.

56138 001 LAB, 15:00-18:00 MW, McNeal Hall B9, In Person Term Based; James Boyd Brent; 4 cr.

**3351 Text and Image**

(A-F or Audit; Prereq: [2345 or DHA 2345], graphic design major, pass portfolio review)

59513 002 LAB, 11:45-13:55 MW, McNeal Hall 336, In Person Term Based; Sauman Chu; 3 cr.

56137 001 LAB, 8:30-10:40 MW, McNeal Hall 316, In Person Term Based; Sauman Chu; 3 cr.

**3352 Identity and Symbols**

(A-F or Audit; Prereq: [2345 or DHA 2345], GDES 3351, pass portfolio review, graphic design major)

56140 001 LAB, 11:45-13:55 TTh, McNeal Hall 336, In Person Term Based; 3 cr.

56141 002 LAB, 15:00-17:10 TTh, McNeal Hall 336, In Person Term Based; 3 cr.

**3353 Packaging and Display**

(A-F or Audit; Prereq: [2345 or DHA 2345], 3351, graphic design major, pass portfolio review)

56143 002 LAB, 18:15-20:25 TTh, McNeal Hall 310, In Person Term Based; 3 cr.

56142 001 LAB, 15:00-17:10 TTh, McNeal Hall 316, In Person Term Based; Steven McCarthy; 3 cr.

**4160H Honors Capstone Project**

(A-F only; Prereq: Graphic design honors)

56148 005 LEC, In Person Term Based; Barbara Martinson; 2 cr.

56146 003 LEC, In Person Term Based; Brad Hokanson; 2 cr.

56150 007 LEC, In Person Term Based; Carol Waldron; 2 cr.

56147 004 LEC, In Person Term Based; Daniel Jasper; 2 cr.

56653 008 LEC, In Person Term Based; Eugene Park; 2 cr.

56144 001 LEC, In Person Term Based; James Boyd Brent; 2 cr.

56145 002 LEC, In Person Term Based; Sauman Chu; 2 cr.

56149 006 LEC, In Person Term Based; Steven McCarthy; 2 cr.

**4330 Surface Fabric Design Workshop**

(A-F or Audit; )

59888 002 LAB, 18:15-21:15 MW, McNeal Hall B9, In Person Term Based; 4 cr.

56165 001 LAB, 11:45-14:45 MW, McNeal Hall B9, In Person Term Based; Barbara Martinson; 4 cr.

**4343 Data Visualization I: Mapping Information**

(A-F only; Prereq: 2345, 3351, [Design minors required to take 2345], or graduate student)

68728 001 LAB, 11:45-13:55 MW, McNeal Hall 310, In Person Term Based; Julie Hillman; 3 cr.

**4345 Advanced Typography**

(A-F or Audit; Prereq: [[2345 or DHA 2345], 3351, graphic design major] or design grad student or instr consent)

57641 002 LAB, 18:15-21:15 TTh, McNeal Hall 336, In Person Term Based; 4 cr.

56166 001 LAB, 15:00-18:00 MW, McNeal Hall 336, In Person Term Based; Carol Waldron; 4 cr.

**4361W Thesis Studio and Writing**

(A-F only; Prereq: [Graphic design major, 2399W, 3352, 3353] or instr consentWI)

58391 001 LAB, 11:45-13:00 TTh, McNeal Hall 250, In Person Term Based; Steven McCarthy; 3 cr.

**4362 Senior Thesis and Exhibition**

(A-F only; Prereq: 4361W, graphic design major, sr standing)

58392 001 LAB, 8:30-10:40 TTh, McNeal Hall 316, In Person Term Based; Daniel Jasper; 3 cr.

**4363 Graphic Design Portfolio**

(S-N only; Prereq: 4361W, graphic design major)

60590 001 LAB, 18:15-20:25 TTh, McNeal Hall 316, In Person Term Based; 3 cr.

**5311 Illustration**

(A-F only; Prereq: 1311 or ArtS 1101 or PDes 3702 or LA 1301 or Arch 3250 or Arch 2301 or instr consent)

**Grand Challenge Curriculum (GCC)**

60548 001 LAB, 8:30-10:40 MW, McNeal Hall 258, In Person Term Based; Meets With: 001 GDES 3311; ; 3 cr.

### 5341 Interactive Design

(A-F or Audit; Prereq: [[2334 or 2342], design minor] or graphic design major or grad student or instr consent)  
57645 001 LAB, 18:15-20:25 MW, McNeal Hall 316, In Person Term Based; Julie Hillman; 3 cr.

### 5342 Advanced Web Design

(A-F or Audit; Prereq: [[2334 or 2342], design minor] or graphic design major or grad student or instr consent)  
56495 001 LAB, 15:00-17:10 MW, McNeal Hall 316, In Person Term Based; Eugene Park; 3 cr.

### 5343 Data Visualization II: Interactive Information

(A-F only; Prereq: [2342, 4343] or grad student or instr consent)  
65575 001 LAB, In Person Term Based; 3 cr.

### 8192 Readings in Graphic Design

(A-F or Audit; Prereq: instr consent)  
56178 005 IND, In Person Term Based; Barbara Martinson; 1-3 cr.  
56176 003 IND, In Person Term Based; Brad Hokanson; 1-3 cr.  
56180 007 IND, In Person Term Based; Carol Waldron; 1-3 cr.  
56177 004 IND, In Person Term Based; Daniel Jasper; 1-3 cr.  
59477 008 IND, In Person Term Based; Eugene Park; 1-3 cr.  
56174 001 IND, In Person Term Based; James Boyd Brent; 1-3 cr.  
56175 002 IND, In Person Term Based; Sauman Chu; 1-3 cr.  
56179 006 IND, In Person Term Based; Steven McCarthy; 1-3 cr.

### 8193 Directed Study

(A-F or Audit; Prereq: instr consent)  
56185 005 IND, In Person Term Based; Barbara Martinson; 1-3 cr.  
56183 003 IND, In Person Term Based; Brad Hokanson; 1-3 cr.  
56187 007 IND, In Person Term Based; Carol Waldron; 1-3 cr.  
56184 004 IND, In Person Term Based; Daniel Jasper; 1-3 cr.  
59476 008 IND, In Person Term Based; Eugene Park; 1-3 cr.  
56181 001 IND, In Person Term Based; James Boyd Brent; 1-3 cr.  
56182 002 IND, In Person Term Based; Sauman Chu; 1-3 cr.  
56186 006 IND, In Person Term Based; Steven McCarthy; 1-3 cr.

### 8222 Plan B Master's Project

(S-N or Audit; Prereq: [Design or DHA master's student], instr consent)  
56192 005 IND, In Person Term Based; Barbara Martinson; 3 cr.  
56190 003 IND, In Person Term Based; Brad Hokanson; 3 cr.  
56194 007 IND, In Person Term Based; Carol Waldron; 3 cr.  
56191 004 IND, In Person Term Based; Daniel Jasper; 3 cr.  
59781 008 IND, In Person Term Based; Eugene Park; 3 cr.  
56188 001 IND, In Person Term Based; James Boyd Brent; 3 cr.  
56189 002 IND, In Person Term Based; Sauman Chu; 3 cr.  
56193 006 IND, In Person Term Based; Steven McCarthy; 3 cr.

### 8361 Color, Design, and Human Perception

(A-F or Audit; Prereq: Basic color theory course or instr consent)  
65574 001 DIS, In Person Term Based; Barbara Martinson; 3 cr.

### 8990 MFA Creative Thesis

(A-F or Audit; Prereq: Completed coursework requirements for MFA in DHA w/multimedia emphasis, instr consent)  
56199 005 IND, In Person Term Based; Barbara Martinson; 6 cr.  
56197 003 IND, In Person Term Based; Brad Hokanson; 6 cr.  
56201 007 IND, In Person Term Based; Carol Waldron; 6 cr.  
56198 004 IND, In Person Term Based; Daniel Jasper; 6 cr.  
59783 008 IND, In Person Term Based; Eugene Park; 6 cr.  
56195 001 IND, In Person Term Based; James Boyd Brent; 6 cr.  
56196 002 IND, In Person Term Based; Sauman Chu; 6 cr.  
56200 006 IND, In Person Term Based; Steven McCarthy; 6 cr.

## Greek (GRK)

### 1002 Beginning Classical Greek II

(Student Option; Prereq: Grade of at least C- or S in 1001 or dept consent)

56990 001 LEC, 11:15-12:05 MTWThF, Folwell Hall 108, In Person Term Based; Stephen Smith; 5 cr.

### 3004 Intermediate Greek Poetry: Homer

(Student Option; Prereq: [Grade of at least C- or S in 3003, 3113] or dept consent)  
54540 001 LEC, 13:25-14:15 MWF, Civil Engineering Bldg 213, In Person Term Based; Meets With: 001 GRK 5004; Elizabeth Torresson; 4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent)  
47413 001 IND, In Person Term Based; ; 1-4 cr.

### 4951W Major Project

(A-F only; Prereq: Greek major, three 3xxx Greek courses, instr consent, dept consentW)  
47861 001 IND, In Person Term Based; 4 cr.

### 5004 Intermediate Greek Poetry: Graduate Student Enrollment

(Student Option; Prereq: [5003 or equiv], grad student or dept consent)  
68566 001 LEC, 13:25-14:15 MWF, Civil Engineering Bldg 213, In Person Term Based; Meets With: 001 GRK 3004; Elizabeth Torresson; 3 cr.

### 5100 Advanced Reading

(Student Option; )  
58568 001 LEC, 11:15-12:30 MW, Nicholson Hall 335, In Person Term Based; Andrew Gallia; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq Grad student or instr consent.)  
47414 001 IND, In Person Term Based; 1-4 cr.

### 5994 Directed Research

(Student Option; Prereq Grad student or instr consent.)  
47416 001 IND, In Person Term Based; 1-12 cr.

### 5996 Directed Instruction

(Student Option; Prereq Grad student or instr consent.)  
47415 001 IND, In Person Term Based; 1-12 cr.

### 8910 Seminar

(Student Option; )  
68565 001 LEC, 16:00-18:30 Th, Nicholson Hall 315, In Person Term Based; Christopher Nappa; 3 cr.

## Health Informatics (HINF)

### 5115 Interprofessional Healthcare Informatics

(Student Option; Prereq: Grad student or professional student or instr consent)  
67548 001 LEC, In Person Term Based; 3 cr.

### 5430 Health Informatics I

(A-F or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)  
67549 001 LEC, In Person Term Based; 3 cr.

### 5431 Health Informatics II

(A-F or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)  
60366 002 LEC, Completely Online; Jessica Whitcomb-Trance; 3 cr.  
48751 001 LEC, 12:00-15:20 Th, Diehl Hall Laboratories 330B, In Person Term Based; Jessica Whitcomb-Trance; 3 cr.

### 5436 AHC Informatics Grand Rounds

(S-N or Audit; )  
48984 001 LEC, 15:30-16:30 Th, Diehl Hall Laboratories 555, In Person Term Based; Jessica Whitcomb-Trance; 1 cr.

### 5494 Topics in Health Informatics

(Student Option; Prereq: Professional student or grad student or instr consent)  
60367 001 LEC, In Person Term Based; 1-4 cr.

### 5501 US Health Care System: Information Challenges in Clinical Care

(S-N or Audit; Prereq: Junior or senior or professional student or grad student or instr consent)  
60368 001 LEC, Completely Online; Jessica Whitcomb-Trance; 1 cr.

### 5502 Programming Essentials Python 3

(S-N or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)

60369 001 LEC, In Person Term Based; Jessica Whitcomb-Trance; 1 cr.

### 5520 Clinical Informatics and Patient Safety

(A-F or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)  
56826 001 LEC, 13:25-14:15 MW, , In Person Term Based; Jessica Whitcomb-Trance; 2 cr.

### 5530 Health Care Software Management

(A-F or Audit; Prereq: HINF student or instr consent)  
56827 001 LEC, 15:30-16:20 MW, , Primarily Online; David Pieczkiewicz; 2 cr.

### 5531 Health Data Analytics and Data Science

(A-F or Audit; Prereq: Junior or senior or professional student or grad student or instr consent)  
67550 002 LEC, Completely Online; David Pieczkiewicz; 2 cr.  
60370 001 LEC, 15:35-16:25 MW, Diehl Hall Laboratories 330B, In Person Term Based; Jessica Whitcomb-Trance; 2 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49124 001 IND, In Person Term Based; 1 cr.

### 8406 Advanced Topics in Health Informatics II

(Student Option; )  
60371 002 LEC, In Person Term Based; Jessica Whitcomb-Trance; 1-4 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49222 001 IND, In Person Term Based; 1 cr.

### 8446 Professional Studies in Health Informatics

(A-F or Audit; Prereq: 5431, PubH 5452 or instr consent, grad hlth inf major)  
56019 001 DIS, In Person Term Based; Jessica Whitcomb-Trance; 1-2 cr.

### 8492 Advanced Readings or Research in Health Informatics

(Student Option No Audit; Prereq: HINF student or instr consent)  
60373 002 IND, In Person Term Based; Chih-Lin Chi; 1-6 cr.  
60374 003 IND, In Person Term Based; Christopher Chute; 1-6 cr.  
49180 001 IND, In Person Term Based; Terrence Adam; 1-6 cr.

### 8494 Research in Health Informatics

(A-F or Audit; Prereq: instr consent)  
49181 001 IND, In Person Term Based; Terrence Adam; 1-6 cr.

### 8525 Health Informatics Teaching

(A-F only; Prereq: HINF student or instr consent prereq: HINF student or instr consent)  
69136 001 LEC, In Person Term Based; 2 cr.

### 8535 Advanced Health Informatics Research Methods

(A-F only; Prereq: HINF student or instr consent)  
60372 001 LEC, In Person Term Based; Jessica Whitcomb-Trance; 3 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49326 001 IND, In Person Term Based; David Pieczkiewicz; 1-6 cr.

## Health Services Management (HSM)

### 3521 Health Care Delivery Systems

(A-F or Audit; Prereq: 30 cr)

52387 A94 LEC, Online & Distance Lrng (ODL); Bill Kenney; 3 cr.

#### 4541 Health Care Finance

(A-F or Audit; Prereq: 45 cr. Basic accounting experience or a course such as ACCT 2050, and knowledge of Microsoft Excel are strongly recommended.)

53528 A94 LEC, Online & Distance Lrng (ODL); Lynn Cross; 3 cr.

### Hebrew (HEBR)

#### 1002 Beginning Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in [1001 or 4001] or instr consent)

47864 001 LEC, 10:10-11:00 MTWThF, Appleby Hall 219, In Person Term Based; Meets With: 001 HEBR 4002; Renana Schneller; 5 cr.

#### 1102 Beginning Biblical Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in [1101 or 4104] or instr consent)

68567 001 DIS, 12:20-13:10 MTWThF, Appleby Hall 303, In Person Term Based; Meets With: 001 HEBR 4105; Pat Ahearne-Kroll; 5 cr.

#### 3012 Intermediate Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in 3011 or instr consent)

47866 001 LEC, 11:15-12:05 MTWThF, Nicholson Hall 115, In Person Term Based; Meets With: 001 HEBR 4012; Renana Schneller; 5 cr.

#### 3951W Major Project

(Student Option; Prereq: [Hebr major, three 3xxx Hebrew courses], instr consent, dept consent(WI))

47873 001 IND, In Person Term Based; 4 cr.

#### 3980 Directed Instruction

(Student Option; Prereq college consent.)

47417 001 IND, In Person Term Based; 1-4 cr.

#### 3993 Directed Studies

(Student Option; Prereq: instr consent)

51105 001 IND, In Person Term Based; 1-4 cr.

#### 4002 Beginning Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in [1001 or 4001] or instr consent)

49784 001 LEC, 10:10-11:00 MTWThF, Appleby Hall 219, In Person Term Based; Meets With: 001 HEBR 1002; Renana Schneller; 3 cr.

#### 4012 Intermediate Hebrew II

(Student Option; )

55840 001 DIS, 11:15-12:05 MTWThF, Nicholson Hall 115, In Person Term Based; Meets With: 001 HEBR 3012; Renana Schneller; 3 cr.

#### 4105 Basics of Biblical Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in [1101 or 4104] or instr consent)

68568 001 DIS, 12:20-13:10 MTWThF, Appleby Hall 303, In Person Term Based; Meets With: 001 HEBR 1102; Pat Ahearne-Kroll; 3 cr.

#### 5992 Directed Readings

(Student Option; Prereq instr consent, dept consent, college consent.)

55153 001 IND, In Person Term Based; Renana Schneller; 1-4 cr.

### Hindi-Urdu (HNUR)

#### 1005 Conversational Hindi-Urdu

(Student Option; )

68577 001 LEC, 14:30-15:20 TTh, Folwell Hall 6, In Person Term Based; Sungok Hong; 2 cr.

#### 1012 Beginning Hindi-Urdu II

(Student Option; Prereq: 1011 or instr consent)

55459 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 HNUR 4002; Sungok Hong; 5 cr.

68435 050 DIS, 16:40-19:00 MW, Folwell Hall 31, In Person Term Based; Meets With: 050 HNUR 4002; Sungok Hong; 5 cr.

#### 3022 Intermediate Hindi-Urdu II

(Student Option; Prereq: 3021 or instr consent)

56296 050 DIS, 16:40-19:00 TTh, Folwell Hall 122, In Person Term Based; Meets With: 050 HNUR 4004; Sungok Hong; 5 cr.

#### 3032 Advanced Hindi-Urdu II

(Student Option; Prereq: 3031 or instr consent)

58225 001 DIS, 13:25-15:20 MW, Folwell Hall 112, In Person Term Based; Meets With: 001 HNUR 4006; Sungok Hong; 4 cr.

#### 3290 Hindi-Urdu Language Teaching Tutorial

(S-N only; Prereq: Grade of A in HNDI 4162)

58537 001 FWK, In Person Term Based; Sungok Hong; 1 cr.

#### 4002 Beginning Hindi-Urdu II

(Student Option; Prereq: Grad student, [4001 or instr consent])

55461 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 HNUR 1012; Sungok Hong; 3 cr.

68436 050 DIS, 16:40-19:00 MW, Folwell Hall 31, In Person Term Based; Meets With: 050 HNUR 1012; Sungok Hong; 3 cr.

#### 4004 Intermediate Hindi-Urdu II

(Student Option; Prereq: Grad student, [4003 or instr consent])

56297 050 DIS, 16:40-19:00 TTh, Folwell Hall 122, In Person Term Based; Meets With: 050 HNUR 3022; Sungok Hong; 3 cr.

#### 4006 Advanced Hindi-Urdu II

(Student Option; Prereq: Grad student, [4005 or instr consent])

58226 001 DIS, 13:25-15:20 MW, Folwell Hall 112, In Person Term Based; Meets With: 001 HNUR 3032; Sungok Hong; 3 cr.

### History (HIST)

#### 1000W Visions of the Past: Thematic

Approaches to Understanding History

(Student Option; Prereq: Fr or soph or fewer than 60 crHIS,WI)

68251 007 DIS, 10:10-11:00 Th, Blegen Hall 260, In Person Term Based; 4 cr.

68250 006 DIS, 12:20-13:10 T, Blegen Hall 335, In Person Term Based; 4 cr.

67707 004 LEC, 13:00-14:15 TTh, Blegen Hall 105, In Person Term Based; Meets With: 004 HIST 3000W; ; 4 cr.

68248 005 LEC, 11:15-12:30 TTh, Anderson Hall 230, In Person Term Based; Meets With: 005 HIST 3000W; Hiromi Mizuno; 4 cr.

59974 003 LEC, 9:45-11:00 TTh, Blegen Hall 130, In Person Term Based; Meets With: 003 HIST 3000W; Margaret Carlyle; 4 cr.

55467 001 LEC, 9:45-11:00 TTh, Blegen Hall 230, In Person Term Based; Meets With: 001 HIST 3000W; Thomas Wolfe; 4 cr.

59973 002 LEC, 11:15-12:30 MW, Blegen Hall 220, In Person Term Based; Meets With: 002 HIST 3000W; Tracey Deutsch; 4 cr.

#### 1012W The Age of Global Contact

(Student Option; Prereq: Fr or soph or non-hist

majorGP,WI,HIS)

58469 003 DIS, 13:25-14:15 T, Blegen Hall 260, In Person Term Based; 4 cr.

58471 005 DIS, 13:25-14:15 Th, Blegen Hall 430, In Person Term Based; 4 cr.

58468 002 DIS, 11:15-12:05 M, Hubert H. Humphrey Center 30, In Person Term Based; 4 cr.

58470 004 DIS, 12:20-13:10 W, Hubert H. Humphrey Center 30, In Person Term Based; 4 cr.

58467 001 LEC, 11:15-12:30 TTh, Blegen Hall 130, In Person Term Based; ; 4 cr.

#### 1031W Europe and the World: Expansion, Encounter, and Exchange to 1500

(Student Option; Prereq: Fr or soph or non-hist majorGP,WI,HIS)

67704 003 DIS, 13:25-14:15 T, Blegen Hall 115, In Person Term Based; 4 cr.

67703 002 DIS, 12:20-13:10 T, Blegen Hall 205, In Person Term Based; 4 cr.

67705 004 DIS, 11:15-12:05 Th, Blegen Hall 225, In Person Term Based; 4 cr.

67706 005 DIS, 11:15-12:05 F, Social Sciences Building 278, In Person Term Based; 4 cr.

67702 001 LEC, 12:20-13:10 MWF, Anderson Hall 250, In Person Term Based; Andrea Sterk; 4 cr.

#### 1302W Global America: U.S. History Since 1865

(Student Option; Prereq: Fr or soph or non-hist majorDSJ,WI,HIS)

50029 008 DIS, 12:20-13:10 W, Blegen Hall 205, In Person Term Based; 4 cr.

50031 010 DIS, 12:20-13:10 Th, Blegen Hall 225, In Person Term Based; 4 cr.

50025 004 DIS, 12:20-13:10 M, Blegen Hall 225, In Person Term Based; 4 cr.

50026 005 DIS, 9:05-9:55 T, Blegen Hall 260, In Person Term Based; 4 cr.

50024 003 DIS, 11:15-12:05 M, Blegen Hall 335, In Person Term Based; 4 cr.

50023 002 DIS, 11:15-12:05 M, Hubert H. Humphrey Center 20, In Person Term Based; 4 cr.

51264 011 DIS, 10:10-11:00 F, Social Sciences Building 278, In Person Term Based; 4 cr.

50030 009 DIS, 11:15-12:05 Th, Social Sciences Building 278, In Person Term Based; 4 cr.

50028 007 DIS, 11:15-12:05 W, Blegen Hall 225, In Person Term Based; 4 cr.

50027 006 DIS, 10:10-11:00 T, Blegen Hall 205, In Person Term Based; 4 cr.

50022 001 LEC, 9:45-11:00 MW, Anderson Hall 310, In Person Term Based; David Chang; 4 cr.

#### 1308 Global America: U.S. History Since 1865

(Student Option; HIS)

68825 701 LEC, In Person Term Based; 3 cr.

68827 703 LEC, In Person Term Based; Christopher Peterson; 3 cr.

68826 702 LEC, In Person Term Based; Dennis Potter; 3 cr.

68830 706 LEC, In Person Term Based; Katherine

VanSchoonhoven; 3 cr.

69106 710 LEC, In Person Term Based; Katherine

VanSchoonhoven; 3 cr.

68824 700 LEC, In Person Term Based; Mary Sauser; 3 cr.

69058 707 LEC, In Person Term Based; Mathew Miller; 3 cr.

69059 708 LEC, In Person Term Based; Mathew Miller; 3 cr.

68828 704 LEC, In Person Term Based; Rebecca Swanson; 3 cr.

68829 705 LEC, In Person Term Based; Ronald Tungseth; 3 cr.

69105 709 LEC, In Person Term Based; Shane Rose; 3 cr.

#### 1842 The Digital Revolution: Computers in the Making of the Contemporary World

(Student Option; )

67775 002 DIS, In Person Term Based; 3 cr.

67776 003 DIS, In Person Term Based; 3 cr.

67774 001 LEC, In Person Term Based; Meets With: 001

HIST 3842; 3 cr.

#### 1905 Freshman Seminar

(A-F or Audit; Prereq: freshman)

67785 001 LEC, 14:30-15:45 TTh, Blegen Hall 430, In

Person Term Based; Hiromi Mizuno; 3 cr.

#### 3000W Visions of the Past: Thematic

Approaches to Understanding History

(Student Option; Prereq: Jr or sr or at least 60

crHIS,WI)

68253 007 DIS, 12:20-13:10 Th, Blegen Hall 205, In Person Term Based; 4 cr.

68252 006 DIS, 10:10-11:00 T, Blegen Hall 260, In Person Term Based; 4 cr.

67708 004 LEC, 13:00-14:15 TTh, Blegen Hall 105, In Person Term Based; Meets With: 004 HIST 1000W; ; 4 cr.

68249 005 LEC, 11:15-12:30 TTh, Anderson Hall 230, In Person Term Based; Meets With: 005 HIST 1000W; Hiromi Mizuno; 4 cr.

59976 003 LEC, 9:45-11:00 TTh, Blegen Hall 130, In Person Term Based; Meets With: 003 HIST 1000W; Margaret

Carlyle; 4 cr.

55468 001 LEC, 9:45-11:00 TTh, Blegen Hall 230, In Person Term Based; Meets With: 001 HIST 1000W; Thomas Wolfe; 4 cr.

59975 002 LEC, 11:15-12:30 MW, Blegen Hall 220, In Person Term Based; Meets With: 002 HIST 1000W; Tracey

Deutsch; 4 cr.

#### 3052 Ancient Civilization: Greece

(Student Option; )

67786 090 LEC, 18:20-20:50 T, Blegen Hall 145, In Person Term Based; 3 cr.

#### 3053 Ancient Civilization: Rome

(Student Option; HIS)

58472 001 LEC, 13:25-14:15 MWF, Anderson Hall 250, In Person Term Based; Andrew Gallia; 3 cr.

### 3066 Prehistoric Pathways to World Civilization

(Student Option; HIS)  
58644 001 LEC, 9:45-11:00 MW, Anderson Hall 370, In Person Term Based; Meets With: 001 ANTH 3009; Peter Wells; 3 cr.

### 3081 History of Christianity I: Martyrs, Monks, Crusaders

(Student Option; )  
69118 001 LEC, 10:10-11:00 MWF, , In Person Term Based; Andrea Sterk; 3 cr.

### 3265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime

(Student Option; )  
58474 001 LEC, 10:10-11:00 MWF, Blegen Hall 130, In Person Term Based; Meets With: 001 HIST 5265; Theofanis Stavrou; 3 cr.

### 3283 Marx, Capital, and History: An Introduction to Marxist Theory and History

(Student Option; )  
67787 001 LEC, 13:00-14:15 MW, Blegen Hall 415, In Person Term Based; Christopher Isett; 3 cr.

### 3284 History through Memoir (A-F only; HIS)

67788 001 LEC, 14:30-15:45 MW, Blegen Hall 220, In Person Term Based; Kirsten Fischer; 3 cr.

### 3348 Women in Modern America

(Student Option; )  
57710 001 LEC, 14:30-15:45 TTh, Ford Hall 130, In Person Term Based; Meets With: 001 GWSS 3408; ; 3-4 cr.

### 3402W Modern Latin America 1825 to Present

(Student Option; GP,WI,HIS)  
59986 003 DIS, 12:20-13:10 M, Blegen Hall 205, In Person Term Based; Meets With: 003 LAS 3402W; 4 cr.  
59985 002 DIS, 11:15-12:05 M, Social Sciences Building 278, In Person Term Based; Meets With: 002 LAS 3402W; 4 cr.  
68607 004 DIS, 11:15-12:05 W, Social Sciences Building 278, In Person Term Based; 4 cr.  
47410 001 LEC, 9:45-11:00 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 LAS 3402W; Patrick McNamara; 4 cr.  
60029 006 DIS, 12:20-13:10 W, Blegen Hall 260, In Person Term Based; Meets With: 006 LAS 3402W; Patrick McNamara; 4 cr.

### 3418 Drink in History

(Student Option; HIS)  
67789 001 LEC, 13:00-14:15 MW, Anderson Hall 330, In Person Term Based; Patrick McNamara; 3 cr.

### 3419 History of Capitalism: Uneven Development Since 1500

(Student Option; )  
67790 090 LEC, 18:20-20:50 M, Anderson Hall 230, In Person Term Based; Christopher Isett; 3 cr.

### 3429 Latin American History in Film and Text

(Student Option; AH,GP)  
59401 001 LEC, 13:25-16:25 Th, Carlson School of Mgmt L-126, In Person Term Based; Meets With: 001 LAS 3429; Sarah Chambers; 3 cr.

### 3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present

(Student Option; GP,HIS)  
46598 003 DIS, 12:20-13:10 M, Blegen Hall 260, In Person Term Based; Meets With: 003 EAS 3462; 3-4 cr.  
59990 002 DIS, 11:15-12:05 M, Blegen Hall 330, In Person Term Based; Meets With: 002 EAS 3462; 3-4 cr.  
55481 001 LEC, 9:45-11:00 MW, Blegen Hall 317, In Person Term Based; Meets With: 001 EAS 3462; Ann Waltner; 3-4 cr.

### 3469 History of Women and Family in China, 1600-2000

(Student Option; )

67791 001 LEC, 14:30-15:45 MW, Blegen Hall 145, In Person Term Based; Liping Wang; 3 cr.

### 3479 History of Chinese Cities and Urban Life

(A-F or Audit; )  
58475 001 LEC, 11:15-12:30 MW, Blegen Hall 155, In Person Term Based; Meets With: 001 EAS 3479; Liping Wang; 3-4 cr.

### 3505 Survey of the Modern Middle East

(Student Option; GP)  
67792 001 LEC, 11:15-12:30 TTh, Blegen Hall 130, In Person Term Based; Carol Hakim; 3 cr.

### 3506 Modern Iran: Nationalism, Religion, and the Struggle to Create Modern Iran

(Student Option; )  
67793 001 LEC, 14:30-15:20 MWF, Folwell Hall 108, In Person Term Based; Meets With: 001 RELS 3713; Iraj Bashiri; 3 cr.

### 3512 History of Modern Israel/Palestine: Society, Culture, and Politics

(Student Option; GP)  
67794 001 LEC, 13:00-14:15 TTh, Nicholson Hall 125, In Person Term Based; Meets With: 001 JWST 3512; Daniel Schroeter; 3 cr.

### 3513 North Africa since 1500: Islam, Colonialism, and Independence

(Student Option; )  
67795 001 LEC, 9:45-11:00 TTh, Blegen Hall 220, In Person Term Based; Daniel Schroeter; 3 cr.

### 3546 Islam and the West

(Student Option; )  
60809 001 LEC, 10:10-11:00 MWF, Blegen Hall 135, In Person Term Based; Meets With: 001 RELS 3714; Iraj Bashiri; 3 cr.

### 3547 The Ottoman Empire

(Student Option; GP,HIS)  
67796 001 LEC, 11:15-12:30 MW, Anderson Hall 330, In Person Term Based; Giancarlo Casale; 3 cr.

### 3611 Medieval Cities of Europe: 500-1500

(Student Option; GP,HIS)  
67798 001 LEC, 11:15-12:30 TTh, Blegen Hall 220, In Person Term Based; Kathryn Reyerson; 3 cr.

### 3615W Women in European History: 1500 to the Present

(Student Option; GP,WI,HIS)  
67799 001 LEC, 13:15-15:45 T, Blegen Hall 145, In Person Term Based; Mary Jo Maynes; 3 cr.

### 3621 Creating the Modern World in Medieval Europe: The Renaissance, 1200-1600

(Student Option; Prereq: Intro course in European history before 1500 recommended)  
67797 001 LEC, In Person Term Based; 3 cr.

### 3691W The British Empire

(A-F or Audit; WI)  
67800 001 LEC, 9:45-11:00 MW, Blegen Hall 220, In Person Term Based; Anna Clark; 3 cr.

### 3704W Daily Life in Europe: 1300-1800

(Student Option; GP,WI,HIS)  
58043 001 LEC, 13:00-14:15 TTh, Blegen Hall 150, In Person Term Based; Margaret Carlyle; 3 cr.

### 3722 Studies in 20th-Century Europe From the End of World War II to the End of the Cold War: 1945-91

(Student Option; )  
67801 090 LEC, 16:00-17:15 TTh, Blegen Hall 130, In Person Term Based; 3 cr.

### 3729 Nazi Germany and Hitler's Europe

(Student Option; )  
67802 001 LEC, 9:45-11:00 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 JWST 3729; Gary Cohen; 3 cr.

### 3767 Eastern Orthodoxy: History and Culture

(Student Option; )

54544 090 LEC, 18:20-20:50 M, Blegen Hall 145, In Person Term Based; Meets With: 001 RELS 3611; Theofanis Stavrou; 3 cr.

### 3804 Religion and the American Culture Wars

(Student Option; HIS)  
57277 001 LEC, 9:45-11:00 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 RELS 3623; Kirsten Fischer; 3 cr.

### 3812 The Civil War and Reconstruction

(Student Option; )  
53016 001 LEC, 9:45-11:00 TTh, Blegen Hall 145, In Person Term Based; J. David Hacker; 3 cr.

### 3821 United States in the 20th Century to 1945

(Student Option; HIS)  
68344 090 LEC, 13:00-15:30 T, Blegen Hall 220, In Person Term Based; Saje Mathieu; 3 cr.

### 3842 The Digital Revolution: Computers in the Making of the Contemporary World

(A-F or Audit; )  
67782 001 LEC, In Person Term Based; Meets With: 001 HIST 1842; 3 cr.  
67783 002 DIS, In Person Term Based; 3 cr.  
67784 003 DIS, In Person Term Based; 3 cr.

### 3862 American Immigration History

(Student Option; DSJ,HIS)  
59995 090 LEC, 16:00-18:30 T, Nicholson Hall 35, In Person Term Based; Meets With: 090 AAS 3862001 CHIC 3862; Erika Lee; 3 cr.

### 3865 African American History, 1865 to Present

(A-F or Audit; )  
57855 001 DIS, 11:15-12:30 TTh, Blegen Hall 425, In Person Term Based; Meets With: 001 AFRO 3865; Saje Mathieu; 3-4 cr.

### 3871 American Indian History: Pre-Contact to 1830

(Student Option; DSJ,HIS)  
59996 001 LEC, 13:00-14:15 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 AMIN 3871; David Chang; 3 cr.

### 3875W Comparative Race and Ethnicity in US History

(A-F or Audit; DSJ,WI,HIS)  
68163 001 LEC, In Person Term Based; 4 cr.

### 3960 Topics in History

(Student Option; Prereq: Soph or Jr or Sr or instr consent)  
68579 002 LEC, 13:00-14:15 TTh, Blegen Hall 155, In Person Term Based; 1-4 cr.  
55022 504 LEC, Study Abroad; John Munholland; 1-4 cr.  
54798 001 LEC, 13:00-15:30 W, Blegen Hall 130, In Person Term Based; Saje Mathieu; 1-4 cr.

### 3980W Supplemental Writing in History

(Student Option; Prereq: instr consent; must take a 3-cr xxx or 5xxx course taken concurrentlyWI)  
58986 002 LEC, In Person Term Based; 1 cr.  
48819 001 LEC, In Person Term Based; 1 cr.

### 3990 Historical Internship

(Student Option; Prereq: instr consent)  
54771 002 FWK, 15:35-17:30 W, Blegen Hall 335, In Person Term Based; Meets With: 001 HIST 4970; Tim Hoogland; 1-4 cr.

### 3993 Directed Study

(A-F or Audit; Prereq: instr consent, dept consent, college consent.)  
58987 002 IND, In Person Term Based; 1-16 cr.  
48775 001 IND, In Person Term Based; 1-16 cr.

### 3994 Directed Research

(A-F or Audit; Prereq: instr consent, dept consent, college consent)  
58988 002 IND, In Person Term Based; 1-16 cr.  
48776 001 IND, In Person Term Based; 1-16 cr.

### 4010V Honors: Research Seminar

**(A-F or Audit; Prereq: Jr or sr history major, honors, or instr consentWI)**

- 68124 001 LEC, 13:25-15:20 M, Blegen Hall 205, In Person Term Based; Meets With: 001 HIST 4010W; Anna Clark; 4 cr.
- 68127 004 LEC, 14:30-16:25 Th, Hubert H. Humphrey Center 20, In Person Term Based; Meets With: 004 HIST 4010W; Carol Hakim; 4 cr.
- 68126 003 LEC, 15:35-17:30 T, Hubert H. Humphrey Center 30, In Person Term Based; Meets With: 003 HIST 4010W; Mary Jo Maynes; 4 cr.
- 68125 002 LEC, 13:25-15:20 W, Walter W Heller Hall 1210A, In Person Term Based; Meets With: 002 HIST 4010W; Saje Mathieu; 4 cr.

#### 4010W Research Seminar

**(A-F or Audit; Prereq: Jr or Sr history major or instr consentWI)**

- 59997 003 LEC, 15:35-17:30 T, Hubert H. Humphrey Center 30, In Person Term Based; Meets With: 003 HIST 4010V; Mary Jo Maynes; 4 cr.
- 57711 002 LEC, 13:25-15:20 W, Walter W Heller Hall 1210A, In Person Term Based; Meets With: 002 HIST 4010V; Saje Mathieu; 4 cr.
- 54769 001 LEC, 13:25-15:20 M, Blegen Hall 205, In Person Term Based; Meets With: 001 HIST 4010V; Anna Clark; 4 cr.
- 59998 004 LEC, 14:30-16:25 Th, Hubert H. Humphrey Center 20, In Person Term Based; Meets With: 004 HIST 4010V; Carol Hakim; 4 cr.

#### 4961V Honors: Major Paper

**(A-F only; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)**

- 53540 001 LEC, 16:05-18:00 W, Blegen Hall 210, In Person Term Based; Meets With: 001 HIST 4961W; Gary Cohen; 4 cr.

#### 4961W Major Paper

**(A-F or Audit; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)**

- 46583 001 LEC, 16:05-18:00 W, Blegen Hall 210, In Person Term Based; Meets With: 001 HIST 4961V; Gary Cohen; 4 cr.

#### 5265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime

**(Student Option; )**

- 51024 001 LEC, 10:10-11:00 MWF, Blegen Hall 130, In Person Term Based; Meets With: 001 HIST 3265; Theofanis Stavrou; 3 cr.

#### 5540 Topics in Mediterranean Studies

**(A-F or Audit; Prereq: Grad student or advanced undergrad with instr consent)**

- 68064 001 LEC, 14:30-16:25 T, Blegen Hall 125, In Person Term Based; Kathryn Reyerson; 1-4 cr.

#### 5547 Empire and Nations in the Middle East

**(Student Option; Prereq: Grad student or instr consent)**

- 68128 001 LEC, 15:35-17:30 W, Blegen Hall 105, In Person Term Based; Giancarlo Casale; 3 cr.

#### 5900 Topics in European/Medieval History

**(A-F only; Prereq: Grad or [advanced undergrad with instr consent])**

- 68140 090 LEC, 18:05-20:00 W, Social Sciences Building 278, In Person Term Based; Meets With: 090 HIST 8900; Mary Jo Maynes; 1-4 cr.

#### 5910 Topics in U.S. History

**(Student Option; Prereq: Grad or advanced undergrad student with instr consent)**

- 60002 002 LEC, In Person Term Based; Gail Dubrow; 1-4 cr.
- 60000 001 LEC, 13:25-15:20 W, Blegen Hall 225, In Person Term Based; Meets With: 001 HIST 8910; Tracey Deutsch; 1-4 cr.

#### 5940 Topics in Asian History

**(Student Option; Prereq: Grad student or [advanced undergrad, instr consent])**

- 68747 001 LEC, 14:30-17:20 T, Folwell Hall 4, In Person Term Based; Meets With: 002 ALL 5920001 EMS 5500; Ann Waltner; 1-4 cr.

#### 5960 Topics in History

**(Student Option; Prereq: Grad or [advanced undergrad with instr consent])**

- 60005 001 LEC, 13:25-15:20 M, Social Sciences Building 278, In Person Term Based; Meets With: 001 HIST 8960; Helena Pohlandt-McCormick; 1-4 cr.

- 68130 003 LEC, 14:30-16:25 Th, Carlson School of Mgmt 1-122, In Person Term Based; Meets With: 003 HIST 8960; Katharine Gerbner; 1-4 cr.

- 68129 002 LEC, 16:40-18:35 T, Social Sciences Building 278, In Person Term Based; Meets With: 002 HIST 8960; Sarah Chambers; 1-4 cr.

#### 5962 Bell Library Research Seminar in Comparative World History, ca. 1000-1800 CE

**(A-F or Audit; Prereq: Grad student, instr consent)**

- 59272 001 IND, 13:25-15:20 T, Blegen Hall 140, In Person Term Based; Marguerite Ragnow; 3 cr.

#### 5970 Advanced Research in Quantitative History

**(A-F or Audit; )**

- 59553 001 LEC, 14:30-16:25 T, Carlson School of Mgmt 1-122, In Person Term Based; Meets With: 001 HIST 8970; J. David Hacker; 4 cr.
- 68074 002 LEC, 11:45-14:15 W, Walter W Heller Hall 1229, In Person Term Based; Meets With: 001 SOC 8540002 HIST 8970; Steven Ruggles; 4 cr.

#### 5993 Directed Study

**(Student Option; Prereq [Grad student or sr], instr consent, dept consent, college consent.)**

- 48820 001 IND, In Person Term Based; 1-16 cr.
- 59591 002 IND, In Person Term Based; Andrew Gallia; 1-16 cr.

#### 8333 FTE: Master's

**(No Grade Associated; Prereq: Master's student, adviser and DGS consent)**

- 49125 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

**(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)**

- 49223 001 IND, In Person Term Based; 1 cr.

#### 8666 Doctoral Pre-Thesis Credits

**(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)**

- 49327 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

**(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])**

- 49412 001 IND, In Person Term Based; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

**(No Grade Associated; Prereq: Max 14 cr per semester or summer, 24 cr required)**

- 49438 001 IND, In Person Term Based; 1-24 cr.

#### 8900 Topics in European/Medieval History

**(A-F or Audit; )**

- 57949 090 LEC, 18:05-20:00 W, Social Sciences Building 278, In Person Term Based; Meets With: 090 HIST 5900; Mary Jo Maynes; 1-4 cr.

#### 8910 Topics in U.S. History

**(A-F or Audit; )**

- 68132 001 LEC, 13:25-15:20 W, Blegen Hall 225, In Person Term Based; Meets With: 001 HIST 5910; Tracey Deutsch; 1-4 cr.

#### 8960 Topics in History

**(A-F or Audit; )**

- 55155 001 LEC, 13:25-15:20 M, Social Sciences Building 278, In Person Term Based; Meets With: 001 HIST 5960; Helena Pohlandt-McCormick; 1-4 cr.
- 68134 003 LEC, 14:30-16:25 Th, Carlson School of Mgmt 1-122, In Person Term Based; Meets With: 003 HIST 5960; Katharine Gerbner; 1-4 cr.
- 68133 002 LEC, 16:40-18:35 T, Social Sciences Building 278, In Person Term Based; Meets With: 002 HIST 5960; Sarah Chambers; 1-4 cr.

#### 8970 Advanced Research in Quantitative History

**(A-F or Audit; Prereq: Grad student)**

- 59558 001 LEC, 14:30-16:25 T, Carlson School of Mgmt 1-122, In Person Term Based; Meets With: 001 HIST 5970; J. David Hacker; 4 cr.
- 68075 002 LEC, 11:45-14:15 W, Walter W Heller Hall 1229, In Person Term Based; Meets With: 001 SOC 8540002 HIST 5970; Steven Ruggles; 4 cr.

#### 8993 Directed Study

**(A-F or Audit; Prereq: Grad student, instr consent)**

- 49439 001 IND, In Person Term Based; 1-16 cr.

#### 8994 Directed Research

**(A-F or Audit; Prereq: instr consent)**

- 49440 001 IND, In Person Term Based; 1-16 cr.

### History of Medicine (HMED)

#### 3002W Health Care in History II

**(Student Option; HIS,WI)**

- 46745 001 LEC, 10:10-11:00 MW, Moos Health Sci Tower 3-110, In Person Term Based; Mary Thomas; 3 cr.
- 46746 002 DIS, 11:15-12:05 W, Ford Hall 127, In Person Term Based; Mary Thomas; 3 cr.
- 46748 005 DIS, 10:10-11:00 F, Ford Hall 155, In Person Term Based; Mary Thomas; 3 cr.
- 46747 007 DIS, 11:15-12:05 F, Ford Hall 155, In Person Term Based; Mary Thomas; 3 cr.
- 49486 004 DIS, 11:15-12:05 Th, Ford Hall 155, In Person Term Based; Mary Thomas; 3 cr.
- 49484 003 DIS, 11:15-12:05 W, Ford Hall 155, In Person Term Based; Mary Thomas; 3 cr.
- 49485 006 DIS, 10:10-11:00 F, Ford Hall 170, In Person Term Based; Mary Thomas; 3 cr.

#### 3040 Human Health, Disease, and the Environment in History

**(Student Option; HIS)**

- 61058 001 LEC, 9:45-11:00 TTh, Bruininks Hall 131A, In Person Term Based; Jole Shackelford; 3 cr.

#### 3055 Women, Health, and History

**(A-F only; HIS)**

- 67483 001 LEC, 13:00-14:15 TTh, Bruininks Hall 530A, In Person Term Based; Dominique Tobbell; 3 cr.

#### 4960 Senior Research Topics in Medical History

**(A-F only; Prereq: Sr, instr consent)**

- 56726 001 LEC, 14:45-17:00 Th, Bruininks Hall 420A, In Person Term Based; Mary Thomas; 3-4 cr.

#### 8113 Research Methods in the History of Science, Technology, and Medicine

**(A-F only; Prereq: instr consent)**

- 53896 001 LEC, 15:35-17:30 Th, Bruininks Hall 131A, In Person Term Based; Meets With: 001 HSCI 8113; Sally Kohlstedt; 3 cr.

#### 8333 FTE: Master's

**(No Grade Associated; Prereq: Master's student, adviser and DGS consent)**

- 49126 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

**(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)**

- 49224 001 IND, In Person Term Based; 1 cr.

#### 8632 Directed Study

**(A-F or Audit; Prereq: instr consent)**

- 51065 001 IND, In Person Term Based; Jennifer Gunn; 1-6 cr.

#### 8666 Doctoral Pre-Thesis Credits

**(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)**

- 49328 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

**(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])**

- 49413 001 IND, In Person Term Based; 1-18 cr.

#### 8830 Topics in the History of Science, Technology, and Medicine

**(A-F or Audit; Prereq: instr consent)**

- 67688 001 LEC, 15:35-17:30 M, Amundson Hall 158, In Person Term Based; Jole Shackelford; 3 cr.

#### 8888 Thesis Credit: Doctoral

**(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)**



49531 001 IND, In Person Term Based; 1-24 cr.

## History of Science and Tech (HSCI)

### 1011 Digital World

(Student Option; HIS,TS)

68725 001 LEC, 11:15-12:05 MWF, Rapson Hall 31, In Person Term Based; Thomas Misa; 3 cr.

### 1212 Life on Earth: Perspectives on Biology

(Student Option; ENV,HIS)

54944 004 DIS, 13:25-14:15 Th, Mechanical Engineering 221, In Person Term Based; Susan Jones; 4 cr.  
 55330 005 DIS, 9:05-9:55 F, Bruininks Hal 121, In Person Term Based; Susan Jones; 4 cr.  
 54064 003 DIS, 12:20-13:10 W, Bruininks Hall 123, In Person Term Based; Susan Jones; 4 cr.  
 54063 002 DIS, 10:10-11:00 W, Bruininks Hall 420A, In Person Term Based; Susan Jones; 4 cr.  
 54062 001 LEC, 11:15-12:30 TTh, Keller Hall 3-230, In Person Term Based; Susan Jones; 4 cr.

### 1714 Technology and Civilization: Stone Tools to Steam Engines

(Student Option; HIS,TS)

58274 001 LEC, 18:15-21:00 M, Bruininks Hall 117, In Person Term Based; Meets With: 001 HSCI 3714; Mary Thomas; 3-4 cr.  
 60058 002 LEC, 18:15-21:00 W, Rapson Hall 45, In Person Term Based; Meets With: 002 HSCI 3714; Mary Thomas; 3-4 cr.

### 1715 Technology and Civilization: Waterwheels to the Web

(Student Option; HIS,TS)

58332 001 LEC, 13:25-14:15 MWF, Keller Hall 3-210, In Person Term Based; Meets With: 001 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58340 008 DIS, 9:05-9:55 Th, Mechanical Engineering 221, In Person Term Based; Meets With: 008 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58337 005 DIS, 9:05-9:55 T, Bruininks Hall 119, In Person Term Based; Meets With: 005 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58335 003 DIS, 12:20-13:10 M, Bruininks Hall 123, In Person Term Based; Meets With: 003 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58336 004 DIS, 13:25-14:15 T, Bruininks Hall 123, In Person Term Based; Meets With: 004 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58339 007 DIS, 14:30-15:20 W, Bruininks Hall 420A, In Person Term Based; Meets With: 007 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58341 009 DIS, 10:10-11:00 F, Bruininks Hall 420A, In Person Term Based; Meets With: 009 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58334 002 DIS, 10:10-11:00 M, Bruininks Hall 420A, In Person Term Based; Meets With: 002 HSCI 3715; Jennifer Alexander; 3-4 cr.  
 58338 006 DIS, 11:15-12:05 W, Bruininks Hall 420A, In Person Term Based; Meets With: 006 HSCI 3715; Jennifer Alexander; 3-4 cr.

### 1815 Revolutions in Science: Lavoisier, Darwin, and Einstein

(Student Option; GP,HIS)

58276 001 LEC, 10:10-11:00 MWF, Rapson Hall 31, In Person Term Based; Meets With: 001 HSCI 3815; Jonathan Clemens; 3-4 cr.  
 58279 004 DIS, 14:30-15:20 W, Bruininks Hall 117, In Person Term Based; Meets With: 004 HSCI 3815; Jonathan Clemens; 3-4 cr.  
 58280 005 DIS, 9:05-9:55 F, Bruininks Hall 119, In Person Term Based; Meets With: 005 HSCI 3815; Jonathan Clemens; 3-4 cr.  
 58278 003 DIS, 10:10-11:00 T, Bruininks Hall 119, In Person Term Based; Meets With: 003 HSCI 3815; Jonathan Clemens; 3-4 cr.  
 58277 002 DIS, 11:15-12:05 M, Bruininks Hall 123, In Person Term Based; Meets With: 002 HSCI 3815; Jonathan Clemens; 3-4 cr.

### 3242 The Darwinian Revolution

(Student Option; HIS)

56837 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 18, In Person Term Based; Meets With: 001 HSCI 5242; Mark Borrello; 3 cr.

### 3331 Technology and American Culture

(Student Option; HIS,TS)

56903 001 LEC, 12:20-13:10 MWF, Akerman Hall 319, In Person Term Based; Nicholas Buchanan; 3 cr.

### 3332 Science and American Culture

(Student Option; DSJ,HIS)

57975 001 LEC, 11:15-12:30 MW, Akerman Hall 209, In Person Term Based; Sally Kohlstedt; 3 cr.

### 3611 Enlightenment, Revolution, and the Rise of Modern Science

(Student Option; GP,HIS)

59048 001 LEC, 11:15-12:30 TTh, Rapson Hall 43, In Person Term Based; Meets With: 001 HSCI 5611; Victor Boantz; 3 cr.

### 3714 Technology and Civilization: Stone Tools to Steam Engines

(Student Option; HIS,TS)

58275 001 LEC, 18:15-21:00 M, Bruininks Hall 117, In Person Term Based; Meets With: 001 HSCI 1714; Mary Thomas; 3-4 cr.  
 60060 002 LEC, 18:15-21:00 W, Rapson Hall 45, In Person Term Based; Meets With: 002 HSCI 1714; Mary Thomas; 3-4 cr.

### 3715 Technology and Civilization: Waterwheels to the Web

(Student Option; HIS,TS)

58333 001 LEC, 13:25-14:15 MWF, Keller Hall 3-210, In Person Term Based; Meets With: 001 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58348 008 DIS, 9:05-9:55 Th, Mechanical Engineering 221, In Person Term Based; Meets With: 008 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58345 005 DIS, 9:05-9:55 T, Bruininks Hall 119, In Person Term Based; Meets With: 005 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58343 003 DIS, 12:20-13:10 M, Bruininks Hall 123, In Person Term Based; Meets With: 003 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58344 004 DIS, 13:25-14:15 T, Bruininks Hall 123, In Person Term Based; Meets With: 004 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58349 009 DIS, 10:10-11:00 F, Bruininks Hall 420A, In Person Term Based; Meets With: 009 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58342 002 DIS, 10:10-11:00 M, Bruininks Hall 420A, In Person Term Based; Meets With: 002 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58346 006 DIS, 11:15-12:05 W, Bruininks Hall 420A, In Person Term Based; Meets With: 006 HSCI 1715; Jennifer Alexander; 3-4 cr.  
 58347 007 DIS, 14:30-15:20 W, Bruininks Hall 420A, In Person Term Based; Meets With: 007 HSCI 1715; Jennifer Alexander; 3-4 cr.

### 3815 Revolutions in Science: Lavoisier, Darwin, and Einstein

(Student Option; GP,HIS)

58281 001 LEC, 10:10-11:00 MWF, Rapson Hall 31, In Person Term Based; Meets With: 001 HSCI 1815; Jonathan Clemens; 3-4 cr.  
 58284 004 DIS, 14:30-15:20 W, Bruininks Hall 117, In Person Term Based; Meets With: 004 HSCI 1815; Jonathan Clemens; 3-4 cr.  
 58285 005 DIS, 9:05-9:55 F, Bruininks Hall 119, In Person Term Based; Meets With: 005 HSCI 1815; Jonathan Clemens; 3-4 cr.  
 58283 003 DIS, 10:10-11:00 T, Bruininks Hall 119, In Person Term Based; Meets With: 003 HSCI 1815; Jonathan Clemens; 3-4 cr.  
 58282 002 DIS, 11:15-12:05 M, Bruininks Hall 123, In Person Term Based; Meets With: 002 HSCI 1815; Jonathan Clemens; 3-4 cr.

### 5242 The Darwinian Revolution

(Student Option; )

56838 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 18, In Person Term Based; Meets With: 001 HSCI 3242; Mark Borrello; 3 cr.

### 5611 Enlightenment, Revolution, and the Rise of Modern Science

(Student Option; )

59049 001 LEC, 11:15-12:30 TTh, Rapson Hall 43, In Person Term Based; Meets With: 001 HSCI 3611; Victor Boantz; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent)

60070 002 IND, In Person Term Based; 1-15 cr.  
47536 001 IND, In Person Term Based; ; 1-15 cr.

### 5994 Directed Research

(Student Option; Prereq: instr consent)

47535 001 IND, In Person Term Based; 1-15 cr.

### 8113 Research Methods in the History of Science, Technology, and Medicine (A-F only; )

53575 001 LEC, 15:35-17:30 Th, Bruininks Hall 131A, In Person Term Based; Meets With: 001 HME 8113; Sally Kohlstedt; 3 cr.

### 8125 Foundations for Research in the Scientific Revolution

(A-F or Audit; Prereq: Grad HSci major or minor or instr consent)

58293 001 LEC, 15:35-17:30 W, Shepherd Laboratories 127, In Person Term Based; Victor Boantz; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49127 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49225 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49329 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))

49414 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49533 001 IND, In Person Term Based; 1-24 cr.

### 8993 Directed Studies

(Student Option; Prereq: instr consent)

47534 001 IND, In Person Term Based; 1-5 cr.

### 8994 Directed Research

(Student Option; )

47533 001 IND, In Person Term Based; 1-5 cr.

## Hmong (HMNG)

### 1001 Introduction to Hmong Language I

(Student Option; )

67619 001 LEC, 14:30-15:20 MTWThF, Kolthoff Hall 135, In Person Term Based; Bee Vang; 5 cr.

### 1012 Beginning Hmong II

(Student Option; Prereq: 1001 or 1011 or instr consent)

56897 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 001 HMNG 4002; Bee Vang; 5 cr.  
 51139 050 DIS, 18:15-20:35 MW, Folwell Hall 122, In Person Term Based; Meets With: 050 HMNG 4002; Maxwell LeYang; 5 cr.

### 1016 Accelerated Intermediate Hmong

(Student Option; Prereq: [1011 and 1012] or 1015 or instr consent)

59938 001 DIS, 16:40-17:30 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 HMNG 4006; Bee Vang; 5 cr.

### 3022 Intermediate Hmong II

(Student Option; Prereq: 3021 or instr consent)

54400 001 DIS, 15:35-16:25 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 HMNG 4004; Maxwell LeYang; 5 cr.

### 3032 Advanced Hmong II

(Student Option; Prereq: 3031 or equiv or instr consent)

59941 001 LEC, 12:20-13:10 MTThF, Folwell Hall 112, In Person Term Based; Meets With: 001 HMNG 4008; Bee Vang; 4 cr.

**3290 Hmong Language Teaching Tutorial**

(S-N only; Prereq: Grade of A in 3022)  
56295 001 FWK, In Person Term Based; Bee Vang; 1 cr.

**3993 Directed Studies**

(Student Option No Audit; Prereq: instr consent, dept consent, college consent)  
60096 001 IND, In Person Term Based; 1-5 cr.

**4002 Beginning Hmong II**

(Student Option; Prereq: 4001, grad student)  
56898 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 001 HMNG 1012; Bee Vang; 3 cr.  
51249 050 DIS, 18:15-20:35 MW, Folwell Hall 122, In Person Term Based; Meets With: 050 HMNG 1012; Maxwell LeYang; 3 cr.

**4004 Intermediate Hmong II**

(Student Option; Prereq: 4003, grad student)  
54401 001 DIS, 15:35-16:25 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 HMNG 3022; Maxwell LeYang; 3 cr.

**4006 Accelerated Intermediate Hmong**

(Student Option; Prereq: 4005, basic spoken Hmong, grad student)  
57799 001 DIS, 16:40-17:30 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 HMNG 1016; Bee Vang; 3 cr.

**4008 Advanced Hmong II**

(Student Option; Prereq: 4007 or equiv or instr consent)  
59939 001 DIS, 12:20-13:10 MTThF, Folwell Hall 112, In Person Term Based; Meets With: 001 HMNG 3032; Bee Vang; 3 cr.

**Honors Seminar (HSEM)****2006H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors studentDSJ)  
68258 001 DIS, 11:15-12:30 TTh, Blegen Hall 210, In Person Term Based; Elliott Powell; 3 cr.

**2010H Honors Seminar**

(A-F or Audit; Prereq: [Fr or soph], honors student)  
68260 001 DIS, 16:00-17:15 MW, Nicholson Hall 345, In Person Term Based; Meng Tang; 3 cr.

**2039H Honors Seminar**

(A-F only; Prereq: [Fr or soph], honors)  
59096 001 DIS, 16:00-17:30 TTh, Northrop Memorial Aud 240, In Person Term Based; Susannah Smith; 2-3 cr.

**2049H Honors Seminar**

(A-F only; Prereq: Fr or soph honors student)  
60658 001 DIS, 13:00-14:15 MW, Hanson Hall, Room 1-107, In Person Term Based; Peter Truran; 3 cr.

**2053H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors student)  
60619 001 DIS, 9:45-11:00 TTh, Northrop Memorial Aud 240, In Person Term Based; Charles Fletcher; 3 cr.

**2516H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors student)  
68262 001 DIS, 10:10-12:05 M, Ford Hall 127, In Person Term Based; Bill Arnold; 2-3 cr.

**2530H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors student)  
68263 001 DIS, 14:30-15:45 MW, Vincent Hall 20, In Person Term Based; Nicholas Buchanan; 2-3 cr.

**2628H Honors Seminar**

(A-F only; Prereq: [Fr or Soph] honors student.)  
68265 001 DIS, 13:00-14:15 TTh, Blegen Hall 210, In Person Term Based; Brett Arenz; 2-3 cr.

**2634H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors student.)  
68266 001 DIS, 13:00-14:15 MW, Bruininks Hall 512B, In Person Term Based; Peter Snyder; 2-3 cr.

**2708H Honors Seminar**

(A-F only; Prereq: [Fr or soph] honors student)  
68331 001 DIS, 10:10-12:05 F, Nicholson Hall 145, In Person Term Based; Matteo Convertino; 2-3 cr.

**2802H Honors Seminar**

(A-F only; Prereq: Fr or soph honors studentDSJ)  
60657 001 DIS, 16:00-18:30 Th, Carlson School of Mgmt 2-233, In Person Term Based; Chang Wang; 3 cr.

**3018H Honors Seminar**

(A-F only; Prereq: [Jr or Sr] honors student.GP)  
68267 001 DIS, 9:45-11:00 WF, Northrop Memorial Aud 240, In Person Term Based; Stephen Ahearne-Kroll; 3 cr.

**3021H Honors Seminar**

(A-F only; Prereq: [Jr or Sr] honors student.)  
68269 001 DIS, 9:45-11:00 TTh, Blegen Hall 105, In Person Term Based; Keya Ganguly; 3 cr.

**3028H Honors Seminar**

(A-F only; Prereq: [Jr or sr] honors student)  
68270 001 LEC, 11:15-12:30 MW, Northrop Memorial Aud 240, In Person Term Based; Bruno Chaouat; 2-3 cr.

**3054H Honors Seminar**

(A-F only; Prereq: [Jr or sr] honors student)  
68271 001 DIS, 18:00-21:00 TTh, Bruininks Hall 131A, In Person Term Based; Wilma Koutstaal; 2-3 cr.

**3724H Honors Seminar**

(A-F only; Prereq: [Jr or sr] honors student)  
68282 001 DIS, 16:00-18:30 W, Blegen Hall 430, In Person Term Based; James Sidman; 2-3 cr.

**Horticultural Science (HORT)****1001 Plant Propagation**

(Student Option; BIOL)  
69060 704 LEC, In Person Term Based; 4 cr.  
47298 001 LEC, 11:45-13:00 TTh, Borlaug Hall 335, In Person Term Based; Alan Smith; 4 cr.  
68834 703 LEC, In Person Term Based; Brian Boomgaarden; 4 cr.  
69126 705 LEC, In Person Term Based; Gretchen Schleper; 4 cr.  
68832 701 LEC, In Person Term Based; James Kocherer; 4 cr.  
68831 700 LEC, In Person Term Based; Nathan Thompson; 4 cr.  
68833 702 LEC, In Person Term Based; Stephanie Wohlhuter; 4 cr.  
47302 005 LAB, 13:15-15:10 Th, Plant Growth Facility 140A, In Person Term Based; William Peters; 4 cr.  
47300 003 LAB, 13:15-15:10 T, Plant Growth Facility 140A, In Person Term Based; William Peters; 4 cr.  
47301 004 LAB, 9:35-11:30 Th, Plant Growth Facility 140A, In Person Term Based; William Peters; 4 cr.  
47299 002 LAB, 9:35-11:30 T, Plant Growth Facility 140A, In Person Term Based; William Peters; 4 cr.

**1003 Horticulture for the Home Gardener**

(Student Option; )  
57972 A94 LEC, Online & Distance Lrng (ODL); Julie Weisenhorn; 3 cr.

**1014 Edible Landscape**

(Student Option; TS)  
55529 001 LEC, 17:10-18:30 W, Bruininks Hall 330, Primarily Online; Thomas Michaels; 3 cr.

**1031 Vines and Wines: Introduction to Viticulture and Enology**

(Student Option No Audit; )  
51517 002 DIS, 18:20-20:00 M, Alderman Hall 415, In Person Term Based; Gary Gardner; 3 cr.  
51516 001 LEC, 17:10-18:20 MW, Alderman Hall 415, In Person Term Based; Gary Gardner; 3 cr.

**3005W Environmental Effects on Horticultural Crops**

(Student Option; WI)  
51674 002 LAB, 13:55-15:50 TTh, Plant Growth Facility 132, In Person Term Based; Latreena Felegy; 4 cr.  
55580 003 LAB, 16:05-18:00 TTh, Plant Growth Facility 132, In Person Term Based; Latreena Felegy; 4 cr.  
47270 001 LEC, 12:50-13:40 TTh, Alderman Hall 415, In Person Term Based; Lauren Drube; 4 cr.

**3090 Directed Studies**

(Student Option; Prereq: Nonfr, instr consent)  
55148 001 IND, In Person Term Based; Lauren Drube; 1-3 cr.

**3131 Student Organic Farm Planning, Growing, and Marketing**

(Student Option; Prereq: 1001 or AGRO 1101 or AGRO 1103 or BIOL 1001 or BIOL 1009 or instr consent)

54455 001 LEC, 11:45-12:35 WF, Alderman Hall 405, In Person Term Based; Julie Grossman; 3 cr.  
57281 002 LAB, 12:50-14:45 W, Plant Growth Facility 140A, In Person Term Based; Julie Grossman; 3 cr.

**3480 Topics in Sustainable Horticulture (Student Option; )**

69044 001 LEC, 8:30-10:00 TTh, Alderman Hall 405, In Person Term Based; John Erwin; 1-3 cr.

**4000 International Experiences in Horticultural Science (Student Option; )**

59555 001 LEC, 18:15-19:45 M, Borlaug Hall 365, In Person Term Based; Mary Meyer; 3 cr.

**4015 Advanced Woody and Herbaceous Plant Topics (A-F only; Prereq: 1015)**

59843 001 LEC, 9:35-13:40 F, Plant Growth Facility 140A, In Person Term Based; Lauren Drube; 1 cr.

**4096 Professional Experience Program: Internship (S-N only; Prereq: CFANS undergrad, completed internship contract prior to employment)**

47292 001 FWK, In Person Term Based; Eric Watkins; 1 cr.

**4401 Plant Genetics and Breeding (Student Option; Prereq: Biol 1009 or equiv or grad, instr consent)**

53070 003 LAB, 9:35-11:05 Th, Alderman Hall 415, In Person Term Based; Meets With: 003 AGRO 4401; Eric Watkins; 4 cr.  
53069 002 LAB, 7:50- 9:20 Th, Alderman Hall 415, In Person Term Based; Meets With: 002 AGRO 4401; Eric Watkins; 4 cr.  
53068 001 LEC, 8:30- 9:20 MWF, Borlaug Hall 365, In Person Term Based; Meets With: 001 AGRO 4401; Eric Watkins; 4 cr.

**4601 Aquaponics: Integrated fish and plant food systems (A-F only; Prereq: Biol 1001 or Biol 1009)**

58751 001 LEC, 9:35-10:25 TTh, Borlaug Hall 335, In Person Term Based; Neil Anderson; 4 cr.  
58752 002 LAB, 10:40-13:40 T, Plant Growth Facility 140B, In Person Term Based; Neil Anderson; 4 cr.

**5007 Advanced Plant Propagation (Student Option; Prereq: 1001 or BIOL 2022)**

65428 001 LEC, 17:10-18:00 MW, Plant Growth Facility 132, In Person Term Based; Lauren Drube; 3 cr.  
65429 002 LAB, 15:00-16:55 W, Plant Growth Facility 132, In Person Term Based; Latreena Felegy; 3 cr.

**5023 Public Garden Management (Student Option; )**

60453 001 LEC, 13:55-15:50 M, Alderman Hall 310, In Person Term Based; Stan Hokanson; 2 cr.

**5058 Plant Cytogenetics (Student Option; Prereq: [HORT/AGRO 4401, BIOL 4004] or instr consent)**

60454 001 LEC, 9:30-10:30 WF, Alderman Hall 415, In Person Term Based; Changbin Chen; 2 cr.

**5059 Plant Cytogenetics Lab (Student Option; Prereq: [HORT/AGRO 4401, BIOL 4004] or instr consent)**

60455 001 LAB, 12:45-14:45 F, Plant Growth Facility 136, In Person Term Based; Changbin Chen; 1 cr.

**5090 Directed Studies (Student Option; Prereq: 8 cr upper div Hort courses, instr consent)**

47275 001 IND, In Person Term Based; Lauren Drube; 1-3 cr.

**6003 Masters of Professional Studies in Horticulture Professional Experience Program: Internship (S-N only; Prereq: Masters of professional studies in horticulture student, completed internship contract, instr consent)**

49442 001 FWK, In Person Term Based; Mary Meyer; 1-3 cr.

**8007 Extension Horticulture Practicum (Student Option; Prereq: 9 grad cr in [ag or bio] science, instr consent)**

47279 001 FWK, In Person Term Based; James Luby; 1-5 cr.

**8090 Graduate Horticultural Research**

**(Student Option; Prereq: instr consent)**

47280 001 IND, In Person Term Based; Lauren Drube; 1-12 cr.

**8270 Graduate Seminar**

**(A-F or Audit; Prereq: Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent)**

49443 001 LEC, 15:30-16:20 M, Borlaug Hall 306, In Person Term Based; Meets With: 001 AGRO 8270; Lynne Medgaarden; 1 cr.

**8280 Current Topics in Applied Plant Sciences**

**(S-N or Audit; Prereq: Grad major in [hort or applied plant sciences or ent or agro or plnt brdg or plnt path or soil] or instr consent)**

49444 001 LEC, 10:00-10:50 W, Alderman Hall 310, In Person Term Based; Meets With: 001 AGRO 8280; Lynne Medgaarden; 1 cr.

**Housing Studies (HSG)****2463 Housing and Community Development**

**(A-F or Audit; )**

65578 001 LEC, 9:45-11:00 TTh, Blegen Hall 135, In Person Term Based; Jeffrey Crump; 3 cr.

**3482 Sustainable Housing: Community, Environment, and Technology**

**(A-F or Audit; TS)**

56450 001 LEC, 16:30-17:45 MW, McNeal Hall 10, In Person Term Based; Meets With: 001 ESPM 3601; 3 cr.

**4160H Honors Capstone Project**

**(A-F only; Prereq: Housing studies honors)**

56210 004 LEC, In Person Term Based; Ann Ziebarth; 2 cr.  
56207 001 LEC, In Person Term Based; Becky Yust; 2 cr.  
56209 003 LEC, In Person Term Based; Jeffrey Crump; 2 cr.  
56208 002 LEC, In Person Term Based; Marilyn Bruin; 2 cr.

**4413 A Systems Approach to Residential Construction**

**(A-F or Audit; Prereq: Upper div or instr consent)**

56497 001 LEC, 15:00-16:55 TTh, Green Hall 110, In Person Term Based; Meets With: 001 BBE 4413001 BBE 5413; 4 cr.

**4461 Housing Development and Management**

**(A-F or Audit; Prereq: [[1461 or DHA 1461], [2463 or DHA 2463]] or grad student or instr consent)**

56222 001 LEC, 9:35-11:30 MW, McNeal Hall 250, In Person Term Based; ; 4 cr.

**4465 Housing in a Global Perspective**

**(A-F or Audit; Prereq: [[2401 or DHA 2401], [2463 or DHA 2463]] or grad student or instr consent)**

65579 001 LEC, 13:30-14:45 MW, McNeal Hall 395, In Person Term Based; Ann Ziebarth; 3 cr.

**5463 Housing Policy**

**(A-F or Audit; Prereq: [[2401 or DHA 2401], [2463 or DHA 2463]] or instr consent)**

56228 001 LEC, 9:45-11:00 TTh, Blegen Hall 415, In Person Term Based; Meets With: 001 PA 5261; Edward Goetz; 3 cr.

**5464 Understanding Housing: Assessment and Analysis**

**(A-F or Audit; Prereq: [[2401 or DHA 2401], [2463 or DHA 2463]] or instr consent)**

56229 001 LEC, 18:15-21:00 T, McNeal Hall 146, In Person Term Based; ; 3 cr.

**8192 Readings in Housing Studies**

**(A-F or Audit; Prereq: instr consent)**

56233 004 IND, In Person Term Based; Ann Ziebarth; 1-3 cr.  
56230 001 IND, In Person Term Based; Becky Yust; 1-3 cr.  
56232 003 IND, In Person Term Based; Jeffrey Crump; 1-3 cr.  
56231 002 IND, In Person Term Based; Marilyn Bruin; 1-3 cr.

**8193 Directed Study**

**(A-F or Audit; Prereq: instr consent)**

56238 004 IND, In Person Term Based; Ann Ziebarth; 1-3 cr.  
56235 001 IND, In Person Term Based; Becky Yust; 1-3 cr.  
56237 003 IND, In Person Term Based; Jeffrey Crump; 1-3 cr.  
56236 002 IND, In Person Term Based; Marilyn Bruin; 1-3 cr.

**8222 Plan B Master's Project**

**(S-N or Audit; Prereq: [DHA or design master's] student, instr consent)**

56243 004 IND, In Person Term Based; Ann Ziebarth; 3 cr.  
56240 001 IND, In Person Term Based; Becky Yust; 3 cr.  
56242 003 IND, In Person Term Based; Jeffrey Crump; 3 cr.  
56241 002 IND, In Person Term Based; Marilyn Bruin; 3 cr.

**Human Factors (HUMF)****5874 Service Design: Designing complex systems to improve service delivery**

**(A-F only; Prereq: Grad student or instr consent)**

60835 001 LEC, 16:40-20:15 M, Mechanical Engineering 108, In Person Term Based; Kathleen Harder; 4 cr.

**8333 FTE: Master's**

**(No Grade Associated; Prereq: Master's student, adviser consent, DGS consent)**

58411 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

**(No Grade Associated; Prereq: Doctoral student, adviser consent, DGS consent)**

58412 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

**(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr)**

58413 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

**(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])**

58414 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

**(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)**

58415 001 IND, In Person Term Based; 1-24 cr.

**Human Resources/Indus Rel (HRIR)****3021 Human Resource Management and Industrial Relations**

**(A-F only; Prereq: ECON 1101, ECON 1102, PSY 1001)**

67256 004 LEC, 9:45-11:00 MW, Hanson Hall, Room 1-108, In Person Term Based; Brenda Lucy; 3 cr.  
58286 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-106, In Person Term Based; Brenda Lucy; 3 cr.  
51494 002 LEC, 14:30-15:45 TTh, Hanson Hall, Room 1-108, In Person Term Based; Brenda Lucy; 3 cr.  
58287 003 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-108, In Person Term Based; Brenda Lucy; 3 cr.  
52927 020 LEC, 17:45-20:15 W, Hanson Hall, Room 1-106, In Person Term Based; Brenda Lucy; 3 cr.

**3021H Human Resource Management and Industrial Relations**

**(A-F only; Prereq: ECON 1101, ECON 1102, PSY 1001)**

60159 001 LEC, 14:30-15:45 TTh, Carlson School of Mgmt 1-136, In Person Term Based; Brenda Lucy; 3 cr.

**3031 Staffing and Selection: Strategic and Operational Concerns**

**(Student Option; Prereq: 3021, [CSOM or HRD junior or senior or dept consent])**

48584 001 LEC, 8:00- 9:40 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.

**3032 Training and Development**

**(Student Option; Prereq: 3021, [CSOM or HRD junior or senior or dept consent])**

48585 001 LEC, 8:00- 9:40 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.

**3071 Union Organizing and Labor Relations**

**(Student Option; Prereq: 3021, [CSOM or HRD junior or senior or dept consent])**

57681 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.

**3072 Collective Bargaining and Dispute Resolution**

**(Student Option; Prereq: 3021, [CSOM or HRD junior or senior or dept consent])**

57682 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.

**4100W HRIR Capstone: Personal and Organizational Leadership**

**(A-F only; Prereq: 3021, 6 HRIR credits, [CSOM or HRD junior or senior or dept consent]WI)**

55515 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-219, In Person Term Based; Brenda Lucy; 4 cr.

**5000 Topics in Human Resources and Industrial Relations**

**(Student Option; Prereq: HRIR MA student must register A-F, [3021, CSOM or HRD junior or senior or dept consent])**

59729 070 LEC, Completely Online; Brenda Lucy; 2 cr.

**5655 Public Policies on Work and Pay**

**(Student Option; Prereq: HRIR MA student must register A-F, ECON 1101, [CSOM or HRD junior or senior or dept consent])**

55347 001 LEC, 18:00-20:45 T, Carlson School of Mgmt 1-122, In Person Term Based; Brenda Lucy; 3 cr.

**5662 Personnel Economics**

**(Student Option; Prereq: Prereq-HRIR MA student must register A-F, ECON 1101, [CSOM or HRD junior or senior or dept consent])**

54071 001 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-219, In Person Term Based; Brenda Lucy; 2 cr.

**5992 Independent Study in Human Resources and Industrial Relations**

**(Student Option; Prereq: dept consent or instr consent)**

52738 001 IND, In Person Term Based; Brenda Lucy; 1-8 cr.

**6000 Graduate Topics in Human Resources and Industrial Relations**

**(A-F only; Prereq: HRIR MA student or dept consent)**

56873 060 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-233, In Person Term Based; Brenda Lucy; 1-8 cr.

**6114 Human Resource Information Systems**

**(A-F only; Prereq: HRIR MA student or dept consent)**

54165 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-142, In Person Term Based; Brenda Lucy; 2 cr.

**6223 International Human Resource Management**

**(A-F only; Prereq: HRIR MA student or dept consent)**

53532 060 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-142, In Person Term Based; Brenda Lucy; 2 cr.

**6304 Employee Development: Creating a Competitive Advantage**

**(A-F only; Prereq: 6301 or dept consent)**

57683 060 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-233, In Person Term Based; Brenda Lucy; 2 cr.

**6401 Organizational Theory Foundations of High-Impact HRIR**

**(A-F only; Prereq: HRIR MA student or dept consent)**

67257 090 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-142, In Person Term Based; Susan Suchy; 2 cr.  
53059 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.

**6441 Organizational Behavior Foundations of High-Impact HRIR**

**(A-F only; Prereq: HRIR MA student or dept consent)**

53060 001 LEC, 13:45-15:45 MW, Carlson School of Mgmt 2-213, In Person Term Based; Brenda Lucy; 2 cr.  
67258 090 LEC, 17:45-21:05 M, Hanson Hall, Room 1-109, In Person Term Based; Susan Suchy; 2 cr.

**6444 Employee Motivation, Engagement, and Well-being**

**(A-F only; Prereq: 6441 or MBA 6110 or dept consent)**

57684 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt 2-219, In Person Term Based; Brenda Lucy; 2 cr.

**6465 Leadership and Personal Development**

**(A-F only; Prereq: MBA or HRIR MA student or dept consent)**

59731 051 LEC, 8:00-17:00 Sa, Carlson School of Mgmt 1-135, In Person Term Based; Brenda Lucy; 2 cr.

59730 050 LEC, 8:00-17:00 F, Carlson School of Mgmt  
1-135, In Person Term Based; Brenda Lucy; 2 cr.

### 6501 Compensation and Benefits

(A-F only; Prereq: HRIR MA student or dept consent)  
47832 001 LEC, 15:45-17:25 W, Carlson School of Mgmt  
2-213, In Person Term Based; Brenda Lucy; 4 cr.

### 6503 Employer-Sponsored Employee Benefit Programs

(A-F only; Prereq: 6501 or dept consent)  
59062 001 LEC, 17:45-21:05 W, Carlson School of Mgmt  
1-143, In Person Term Based; Brenda Lucy; 2 cr.

### 6701 Labor Relations and Collective Bargaining

(A-F only; Prereq: HRIR MA student or dept consent)  
67259 090 LEC, 17:45-21:05 W, Carlson School of Mgmt  
1-142, In Person Term Based; Susan Suchy; 4 cr.  
53531 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt  
2-213, In Person Term Based; Brenda Lucy; 4 cr.

### 6801 HRIR in Practice: Strategy, Execution, and Ethics

(A-F only; Prereq: [6001, 6111, 6301, 6401, 6441, 6501,  
6701] or dept consent)  
54072 070 LEC, Completely Online; Brenda Lucy; 2 cr.

### 6992 Independent Study in Applied Human Resources and Industrial Relations

(S-N only; Prereq: dept consent)  
60105 001 IND, In Person Term Based; Brenda Lucy; 1-8 cr.

### 8820 Seminar: Special Topics in Work and Organizations Research

(Student Option; Prereq: [Business Admin student or  
dept consent], grad majors must enroll A-F)  
56847 001 LEC, In Person Term Based; Brenda Lucy; 2 cr.

### 8825 Research Practicum/Workshop

(S-N only; Prereq: Business Admin PhD student or  
dept consent)  
56848 001 LEC, In Person Term Based; Brenda Lucy; 1 cr.

## Industrial Engineering (IE)

### 1101 Foundations of Industrial and Systems Engineering

(A-F only; Prereq: [MATH 1372 or equiv], CSE student)  
66421 001 LEC, 14:30-16:25 TTh, Mechanical Engineering  
108, In Person Term Based; ; 4 cr.

### 2021 Engineering Economics

(A-F only; Prereq: [MATH 1372 or equiv], CSE student)  
66422 001 LEC, 10:10-12:05 TTh, Bruininks Hall 131B, In  
Person Term Based; ; 4 cr.

### 3041 Industrial Assignment I

(A-F or Audit; Prereq: ME upper division, registration in  
ME co-op program)  
48961 001 FWK, In Person Term Based; 2 cr.

### 3521 Statistics, Quality, and Reliability

(Student Option; Prereq: MATH 1372 or equiv)  
47050 001 LEC, 11:15-13:10 MW, Rapson Hall 56, In Person  
Term Based; Qie He; 4 cr.  
48563 002 LEC, 18:10-21:30 M, Mechanical Engineering 18,  
In Person Term Based; Zizhuo Wang; 4 cr.  
58744 003 LEC, 13:25-15:20 TTh, Rapson Hall 56, In Person  
Term Based; William Cooper; 4 cr.

### 3522 Quality Engineering and Reliability

(A-F only; Prereq: 3521, MATH 2373, MATH 2374, ISyE  
major)  
58746 001 LEC, 13:25-15:20 MW, Akerman Hall 209, In  
Person Term Based; Lisa Miller; 4 cr.

### 3553 Simulation

(A-F only; Prereq: CSCI 1113, 3521, ISyE major)  
61136 881 LEC, 10:10-12:05 TTh, Room TBA, Primarily  
Online; ; 4 cr.  
61138 885 LEC, 10:10-12:05 TTh, Rochester Campus Room  
TBA, Primarily Online; ; 4 cr.  
58754 001 LEC, 10:10-12:05 TTh, Mechanical Engineering  
212, In Person Term Based; Meets With: 001 IE 5553;  
Kevin Leder; 4 cr.  
61137 883 LEC, 10:10-12:05 TTh, Room TBA, Primarily  
Online; ; 4 cr.

### 4011 Stochastic Models

(A-F only; Prereq: 3521, MATH 2373, MATH 2374, ISyE  
major)

59623 001 LEC, 10:10-12:05 MW, Mechanical Engineering  
212, In Person Term Based; ; 4 cr.

### 4041W Senior Design

(A-F only; Prereq: 1101, 2021, 3012, 3522, 3553, 4011,  
4511, 4541W, 3521, 4551, ISyE seniorW)  
59624 001 LEC, 14:30-16:25 TTh, Keller Hall 2-260, In  
Person Term Based; ; 4 cr.

### 4043 Industrial Assignment III

(A-F or Audit; Prereq: 4042)  
48962 001 FWK, In Person Term Based; 4 cr.

### 4551 Production and Inventory Control

(A-F only; Prereq: 3011, 3521, ISyE major)  
58753 001 LEC, 13:25-15:20 TTh, Peik Gymnasium G55, In  
Person Term Based; Guangwen Kong; 4 cr.

### 5113 Systems Engineering II

(A-F or Audit; Prereq: 5111, a course on basic  
probability, [CSE upper div or grad student])  
55156 881 LEC, 18:10-21:30 Th, Room TBA, Primarily  
Online; Robert Monson; 4 cr.  
55158 885 LEC, 18:10-21:30 Th, Rochester Campus Room  
TBA, Primarily Online; Robert Monson; 4 cr.  
53743 001 LEC, 18:10-21:30 Th, Mechanical Engineering  
102, In Person Term Based; Robert Monson; 4 cr.  
55157 883 LEC, 18:10-21:30 Th, Room TBA, Primarily  
Online; Robert Monson; 4 cr.

### 5513 Engineering Safety

(A-F or Audit; Prereq: Upper div CSE or grad student)  
52606 001 LEC, 18:10-21:30 W, Bruininks Hall 131B, In  
Person Term Based; Jonathan Chaplin; 4 cr.

### 5522 Quality Engineering and Reliability

(Student Option; Prereq: [4521 or equiv], [upper div or  
grad student or CNR])  
53201 881 LEC, 13:25-15:20 MW, Room TBA, Primarily  
Online; Lisa Miller; 4 cr.  
50816 001 LEC, 13:25-15:20 MW, Mechanical Engineering  
212, In Person Term Based; Lisa Miller; 4 cr.  
53203 885 LEC, 13:25-15:20 MW, Rochester Campus Room  
TBA, Primarily Online; Lisa Miller; 4 cr.  
53202 883 LEC, 13:25-15:20 MW, Room TBA, Primarily  
Online; Lisa Miller; 4 cr.

### 5541 Project Management

(Student Option; Prereq: Upper div or grad student)  
54370 003 LEC, 18:10-21:30 T, Room TBA, In Person Term  
Based; Lisa Miller; 4 cr.  
50782 001 LEC, 18:10-21:30 T, Mechanical Engineering 108,  
In Person Term Based; Lisa Miller; 4 cr.  
51005 881 LEC, 18:10-21:30 T, Room TBA, Primarily Online;  
Lisa Miller; 4 cr.  
51006 885 LEC, 18:10-21:30 T, Rochester Campus Room  
TBA, Primarily Online; Lisa Miller; 4 cr.  
51480 883 LEC, 18:10-21:30 T, Room TBA, Primarily Online;  
Lisa Miller; 4 cr.

### 5545 Decision Analysis

(Student Option; Prereq: 4521 or equiv)  
51421 001 LEC, 9:05-12:25 W, Amundson Hall 240, In  
Person Term Based; Diwakar Gupta; 4 cr.

### 5551 Production Planning and Inventory Control

(Student Option; Prereq: CNR or upper div or grad  
student)  
55636 001 LEC, 13:25-15:20 TTh, Armory Building 116, In  
Person Term Based; Guangwen Kong; 4 cr.

### 5553 Simulation

(Student Option; Prereq: Upper div or grad student;  
familiarity with probability/statistics recommended)  
61140 883 LEC, 10:10-12:05 TTh, Room TBA, Primarily  
Online; 4 cr.  
61139 881 LEC, 10:10-12:05 TTh, Room TBA, Primarily  
Online; ; 4 cr.  
61141 885 LEC, 10:10-12:05 TTh, Rochester Campus Room  
TBA, Primarily Online; ; 4 cr.  
51422 001 LEC, 10:10-12:05 TTh, Mechanical Engineering  
212, In Person Term Based; Meets With: 001 IE 3553;  
Kevin Leder; 4 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student,  
adviser and DGS consent)  
49128 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student,  
adviser and DGS consent)

49226 001 IND, In Person Term Based; 1 cr.

### 8534 Advanced Topics in Operations Research

(Student Option; Prereq: 5531, 8532)  
56829 001 LEC, 14:30-17:50 M, Akerman Hall 313, In  
Person Term Based; Shuzhong Zhang; 4 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who  
has not passed prelim oral; no required consent for  
1st/2nd registrations, up to 12 combined cr; dept  
consent for 3rd/4th registrations, up to 24 combined  
cr; doctoral student admitted before summer 2007 may  
register up to four times, up to 60 combined cr)  
49330 001 IND, In Person Term Based; 1-6 cr.

### 8773 Graduate Seminar

(S-N or Audit; )  
47194 001 LEC, 15:35-16:25 W, Mechanical Engineering  
4125B, 15:35-16:25 W, Mechanical Engineering 4125A,  
In Person Term Based; Meets With: 001 IE 8774; Zizhuo  
Wang; 1 cr.

### 8774 Graduate Seminar

(S-N or Audit; Prereq: 8773)  
47195 001 LEC, 15:35-16:25 W, Mechanical Engineering  
4125B, 15:35-16:25 W, Mechanical Engineering 4125A,  
In Person Term Based; Meets With: 001 IE 8773; Zizhuo  
Wang; 1 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester  
or summer; 10 cr total required [Plan A only])  
49415 001 IND, In Person Term Based; 1-18 cr.

### 8794 Industrial Engineering Research

(Student Option; Prereq: instr consent)  
47188 001 IND, In Person Term Based; Sant Arora; 1-6 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester  
or summer; 24 cr required)  
49534 001 IND, In Person Term Based; 1-24 cr.

### 8953 Plan B

(A-F or Audit; Prereq: 8951)  
50906 001 IND, 17:30-18:30 W, Room TBA, In Person Term  
Based; ; 2 cr.

## Information Networking (INET)

### 1001 Survey of Information Technology

(A-F or Audit; )  
61448 A94 LEC, Online & Distance Lrng (ODL); 1 cr.

### 4021 Network Programming

(A-F or Audit; Prereq: [CSCI 4211 or equiv professional  
experience or instr consent], 45 cr)  
50533 001 LEC, 18:00-22:00 W, Appleby Hall 11, In Person  
Term Based; Mark Langanki; 4 cr.

### 4031 System Administration

(A-F or Audit; Prereq: [CSCI 4061 or instr consent], 45  
cr)  
50535 001 LEC, 18:00-22:00 Th, Appleby Hall 3, In Person  
Term Based; Lynn Cross; 4 cr.  
50535 001 LEC, 18:00-22:00 Th, Appleby Hall 3, In Person  
Term Based; Lynn Cross; 4 cr.

### 4051 IT Infrastructure Operations

(A-F or Audit; Prereq: [CSCI 4211 or instr consent], sr)  
59080 A94 LEC, Online & Distance Lrng (ODL); Mark  
Langanki; 3 cr.

### 4061 Introduction to Business Intelligence and Data Warehousing

(A-F or Audit; Prereq: [4707 or CSCI 4707 or instr  
consent], laptop)  
58083 001 LEC, 18:00-21:45 M, Akerman Hall 215, In  
Person Term Based; Katherine Splett; 3 cr.

### 4082 IT Infrastructure Projects and Processes

(A-F or Audit; Prereq: 45 cr)  
54328 001 LEC, 18:00-21:35 T, Appleby Hall 11, In Person  
Term Based; Valerie Griep; 2 cr.

**4083 System Analysis and Design**

(A-F or Audit; Prereq: 4082 or project management experience)  
55678 001 LEC, 18:00-21:35 T, Akerman Hall 211, Partially Online; Shanti Shah; 2 cr.

**4165 Information Security: Technology, Ethics, Legality, and Standards**

(A-F or Audit; Prereq: CSCI 4061 or equiv experience with operating systems)  
55395 001 LEC, 18:00-20:45 W, Akerman Hall 211, In Person Term Based; LeAllan Estrem; 3 cr.

**Information and Decision Sci (IDSC)****3001 Information Systems for Business Processes and Management**

(A-F only; )  
58236 003 LEC, 16:00-17:15 MW, Hanson Hall, Room 1-102, In Person Term Based; Allison Brimeyer; 3 cr.  
58234 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-104, In Person Term Based; Allison Brimeyer; 3 cr.  
58235 002 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-106, In Person Term Based; Allison Brimeyer; 3 cr.  
58237 020 LEC, 17:45-20:15 T, Hanson Hall, Room 1-104, In Person Term Based; Allison Brimeyer; 3 cr.

**3101 Introduction to Programming**

(A-F only; )  
58238 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Allison Brimeyer; 2 cr.  
55350 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Allison Brimeyer; 2 cr.

**3102 Intermediate Programming**

(A-F only; Prereq: 3101 or [equiv experience, instr consent])  
58239 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Allison Brimeyer; 2 cr.  
55351 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Allison Brimeyer; 2 cr.

**3103 Data Modeling and Databases**

(A-F only; )  
58240 002 LEC, 13:45-15:25 Th, Carlson School of Mgmt L-117, 13:45-15:25 T, Carlson School of Mgmt L-126, In Person Term Based; Allison Brimeyer; 2 cr.  
55352 001 LEC, 11:50-13:30 W, Carlson School of Mgmt L-117, 11:50-13:30 M, Carlson School of Mgmt 1-132, In Person Term Based; Allison Brimeyer; 2 cr.

**3104 Enterprise Systems**

(A-F only; Prereq: 3001)  
58241 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Allison Brimeyer; 2 cr.  
55353 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-142, In Person Term Based; Allison Brimeyer; 2 cr.

**3202 Analysis and Modeling for Business Systems Development**

(A-F or Audit; Prereq: 3001)  
58242 002 LEC, 8:00-9:40 MW, Carlson School of Mgmt L-114, In Person Term Based; Allison Brimeyer; 4 cr.  
54515 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt L-114, In Person Term Based; Allison Brimeyer; 4 cr.

**4204W Information Services Management**

(A-F or Audit; Prereq: 3202W1)  
59735 002 LEC, 9:55-11:35 MW, Carlson School of Mgmt 2-219, In Person Term Based; Allison Brimeyer; 4 cr.  
58849 001 LEC, 8:00-9:40 MW, Carlson School of Mgmt 2-219, In Person Term Based; Allison Brimeyer; 4 cr.

**4301 Information Systems Capstone Course: A Live Case**

(A-F only; Prereq: 3202, 4204W, CSOM major)  
59736 002 LEC, 8:00-9:40 MW, Carlson School of Mgmt L-122, In Person Term Based; Allison Brimeyer; 2 cr.  
55349 001 LEC, 8:00-9:40 TTh, Carlson School of Mgmt L-114, In Person Term Based; Allison Brimeyer; 2 cr.

**4401 Information Security**

(A-F only; Prereq: 3001)  
53246 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-233, In Person Term Based; Allison Brimeyer; 2 cr.

**4431 Advanced Database Design**

(A-F or Audit; Prereq: 3103 or CSCI 4707 or CSCI 5707 or instr consent)

55348 001 LEC, 16:30-18:10 Th, Carlson School of Mgmt 1-114, Primarily Online; Allison Brimeyer; 2 cr.

**4444 Business Analytics**

(A-F only; Prereq: 3001)  
58243 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-142, In Person Term Based; Allison Brimeyer; 2 cr.

**4490 Information Systems Special Topics**

(A-F or Audit; )  
50242 001 LEC, In Person Term Based; 2 cr.  
69122 002 LEC, 8:00-9:40 TTh, In Person Term Based; Allison Brimeyer; 2 cr.

**4491 Independent Study in Information Systems**

(A-F only; Prereq: instr consent)  
60593 001 IND, In Person Term Based; Allison Brimeyer; 1-4 cr.

**6040 Information Technology Management**

(A-F only; Prereq: MBA student.)  
52411 090 LEC, 12:30-15:50 Sa, Hanson Hall, Room 1-105, In Person Term Based; Jason Chan; 2 cr.  
52412 091 LEC, 17:45-21:05 M, Hanson Hall, Room 1-108, In Person Term Based; Allison Brimeyer; 2 cr.

**6050 Information Technologies and Solutions**

(A-F or Audit; )  
67264 070 LEC, Completely Online; Soumya Sen; 2 cr.  
52413 090 LEC, 17:45-21:05 W, Hanson Hall, Room 1-108, In Person Term Based; Soumya Sen; 2 cr.

**6401 Decision Technologies**

(A-F only; Prereq: MBA student)  
59737 060 LEC, 17:45-21:05 W, Carlson School of Mgmt L-110, In Person Term Based; 2 cr.

**6423 Enterprise Systems**

(A-F only; )  
52414 060 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-143, In Person Term Based; Noelle French; 2 cr.

**6442 E-Sourcing and E-Auctions**

(A-F only; Prereq: MBA student)  
59041 070 LEC, Completely Online; Allison Brimeyer; 2 cr.

**6444 Business Intelligence**

(A-F only; Prereq: [6040 or 6050 or MBA 6240], MBA student)  
55594 060 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-123, In Person Term Based; Allison Brimeyer; 2 cr.

**6446 Advanced Business Intelligence**

(A-F only; Prereq: 6444)  
59597 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt 2-213, In Person Term Based; Gediminas Adomavicius; 2 cr.

**6465 Global Sourcing of IT and IT Enabled Services**

(A-F only; Prereq: [6040 or 6050 or MBA 6240], MBA student)  
55595 060 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-213, In Person Term Based; Allison Brimeyer; 4 cr.

**8003 Accounting and Information Systems**

(A-F only; Prereq: MAcc student)  
54757 001 LEC, 17:45-21:05 M, Carlson School of Mgmt L-110, In Person Term Based; Matt Schmidt; 4 cr.

**8541 Introduction to Economics of Information Systems**

(A-F only; Prereq: PhD student in Business Administration or instr consent)  
67265 001 LEC, 9:00-12:00 W, Carlson School of Mgmt 1-122, In Person Term Based; Gordon Burtch; 3 cr.

**8721 Behavioral Decision Theory**

(Student Option; Prereq: Business admin PhD student or instr consent; offered alt yrs)  
67266 001 LEC, In Person Term Based; 3 cr.

**8801 Research Seminar in Information and Decision Sciences**

(Student Option; Prereq: Business Admin PhD student or instr consent)  
51476 001 LEC, In Person Term Based; Gediminas Adomavicius; 2 cr.

**8892 Readings in Information and Decision Sciences**

(Student Option; Prereq: Business admin PhD student or instr consent)  
46818 001 IND, In Person Term Based; Noelle French; 1-8 cr.

**Innovation Studies (IS)****5002 Final Project for Innovation Studies**

(A-F or Audit; Prereq: Completion of IS requirements, dept consent)  
51464 001 LEC, In Person Term Based; Arthur Harkins; 1-4 cr.  
54203 002 LEC, In Person Term Based; Arthur Harkins; 1-4 cr.

**5100 Innovation Studies Seminar**

(A-F or Audit; )  
59091 A94 LEC, Online & Distance Lrng (ODL); Arthur Harkins; 1-4 cr.  
57381 001 LEC, 18:20-20:50 W, Folwell Hall 116, In Person Term Based; Meets With: 002 LS 5100; Virajita Singh; 1-4 cr.

**5950 Special Topics**

(A-F or Audit; Prereq: dept consent)  
57387 001 LEC, 9:00-15:00 Sa, Room TBA, In Person Term Based; Arthur Harkins; 1-4 cr.

**Insurance and Risk Management (INS)****4100 Corporate Risk Management**

(Student Option; )  
48616 020 LEC, 17:45-21:05 W, Hanson Hall, Room 1-108, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

**4101 Employee Benefits**

(Student Option; )  
67267 020 LEC, 17:45-21:05 T, Hanson Hall, Room 1-108, In Person Term Based; Cassie Visser; 2 cr.

**4200 Insurance Theory and Practice**

(Student Option; )  
53173 020 LEC, 17:45-21:05 Th, Hanson Hall, Room 1-108, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

**Integrated Behavioral Health (IBH)****6011 Foundations in Differential Diagnosis**

(A-F or Audit; Prereq: Must be admitted IBH student)  
59294 001 LEC, 17:30-20:10 W, Room TBA, In Person Term Based; Heidi Kammer-Hodge; 3 cr.

**6021 Methods and Models III: Synthesis Seminar in Client Centered Care**

(A-F or Audit; Prereq: Must be admitted IBH student)  
58190 001 LEC, 9:30-15:40 Sa, Room TBA, In Person Term Based; Paula Desanto; 2 cr.

**6032 Advanced Multicultural Practice**

(A-F only; Prereq: ADDS 5081 or equivalent)  
61212 001 LEC, 17:30-19:45 W, Magrath Library 4, In Person Term Based; Debra Wamsley; 1 cr.

**6041 Prolonged Exposure Therapy for PTSD**

(A-F or Audit; Prereq: [6011, 6031, ADDS 5021] or dept consent)  
59295 001 LEC, 17:20-19:20 W, Room TBA, In Person Term Based; RJohn Sutherland; 2 cr.

**6051 Advanced Group Practice**

(A-F or Audit; Prereq: Must be admitted IBH student, [ADDS 5061 or dept consent])  
58188 001 LEC, 19:30-21:20 W, Room TBA, In Person Term Based; RJohn Sutherland; 2 cr.

**6061 Applied Advanced Diagnostics I**

(A-F or Audit; Prereq: Must be admitted IBH student, [ADDS 5091 or ADDS 4001], dept consent)  
61442 001 LEC, In Person Term Based; 2 cr.

**6071 Advanced Professional Issues**

(A-F or Audit; Prereq: Must be admitted IBH student)

59298 001 LEC, 17:30-21:10 M, Ruttan Hall B36, In Person Term Based; Laura Boisen; 3 cr.  
61441 002 LEC, 17:30-21:10 M, Magrath Library 8, In Person Term Based; Laura Boisen; 3 cr.

### 6081 Human Lifespan Development and Behavioral Health

(A-F or Audit; )  
59107 A94 LEC, Online & Distance Lrng (ODL); Adam Reef; 3 cr.

### 6091 Intersection of Career and Mental Health

(A-F or Audit; Prereq: 6081, must be admitted IBH student)  
59301 001 LEC, 17:30-19:30 Th, Room TBA, In Person Term Based; Julie Rohovit; 2 cr.

### 6101 Family Dynamics and Therapy

(A-F or Audit; Prereq: Must be admitted IBH student)  
58189 001 LEC, 17:30-20:10 Th, Room TBA, Partially Online; Ann Becher-Ingwalsen; 3 cr.

### 6111 Research and Evaluation Methods

(A-F or Audit; Prereq: dept consent required)  
59302 001 LEC, 17:30-20:10 W, Ruttan Hall B26, In Person Term Based; Jessie Everts; 3 cr.

### 6222 Adolescents and Co-occurring Substance Use and Mental Health Disorders

(A-F only; )  
59108 A94 LEC, Online & Distance Lrng (ODL); Adam Reef; 2 cr.

### 6228 Mental Health and Addiction Program Administration

(A-F only; Prereq: [AddS 5091 or AddS 5001], dept consent)  
59604 001 LEC, 17:30-19:30 M, Room TBA, In Person Term Based; Joseph Clubb; 2 cr.

### 6229 Crisis Assessment and Management

(A-F only; Prereq: [AddS 5091 or AddS 4001], dept consent, background check)  
59605 001 LEC, 19:30-21:20 M, Room TBA, In Person Term Based; Joseph Clubb; 2 cr.

### 6231 Management of Eating Disorders

(Student Option; )  
59639 001 LEC, In Person Term Based; 3 cr.

### 6910 Topics in Integrated Behavioral Health

(A-F only; )  
59573 001 LEC, 16:00-20:00 F, Room TBA, 10:00-16:00 Sa, Room TBA, 9:00-17:00 Sa, Room TBA, In Person Term Based; Barbara Nordstrom-Loeb; 1-4 cr.

### 6996 Internship for Integrated Behavioral Health

(S-N only; Prereq: dept consent)  
59109 A94 FWK, Online & Distance Lrng (ODL); Ann Becher-Ingwalsen; 1-4 cr.

## Inter-College Program (ICP)

### 3000 Career Skills in the Professional Environment

(Student Option; Prereq: 60 cr)  
58084 001 IND, Completely Online; 2 cr.

### 3093 Directed Study

(A-F only; Prereq: instr consent)  
52726 001 IND, In Person Term Based; Lynn Cross; 1-15 cr.

### 3101W Inter-College Program Proposal Development

(A-F only; Prereq: ICP student or instr consentWI)  
59420 001 LEC, 16:30-18:30 Th, Ruttan Hall B30, Partially Online; Amy Burger Sanchez; 2 cr.

### 3201 Career and Internship Preparation

(A-F only; Prereq: Soph or jr or sr or grad student)  
57582 003 LEC, 16:05-16:55 T, Ruttan Hall B35, In Person Term Based; Meets With: 003 CFAN 3201; Paul Zheng; 1 cr.

57581 001 LEC, 11:45-12:35 T, Ruttan Hall B25, In Person Term Based; Meets With: 001 CFAN 3201; Paul Zheng; 1 cr.

## Interdepartmental Study (ID)

### 1201 Major and Career Exploration

(Student Option; Prereq: Fr or soph)  
57560 003 LEC, 14:30-16:25 M, Bruininks Hall 512A, In Person Term Based; Christopher Buckley; 2 cr.  
48794 004 LEC, 14:30-16:25 T, Appleby Hall 303, In Person Term Based; Joyce Halverson; 2 cr.  
53790 009 LEC, 14:30-16:25 MW, Bruininks Hall 123, In Person Term Based; Paul Timmins; 2 cr.  
60364 002 LEC, 12:20-14:15 Th, Amundson Hall 156, In Person Term Based; Stephanie Untiedt; 2 cr.  
53481 008 LEC, 10:10-12:05 Th, Molecular Cellular Biol 2-122, In Person Term Based; Stephanie Untiedt; 2 cr.

### 3201 Career Planning

(Student Option; )  
50163 003 DIS, 10:10-12:05 T, Cooke Hall 214, In Person Term Based; Jesse Holschbach; 2 cr.  
53482 010 DIS, 14:30-16:25 T, Folwell Hall 8, In Person Term Based; Jesse Holschbach; 2 cr.  
51051 006 DIS, 12:20-14:15 T, Vincent Hall 209, In Person Term Based; Jesse Holschbach; 2 cr.  
59003 002 DIS, 10:10-12:05 W, Akerman Hall 327, In Person Term Based; Stephanie Untiedt; 2 cr.  
59004 005 DIS, 12:20-14:15 W, Bruininks Hall 131A, In Person Term Based; Stephanie Untiedt; 2 cr.

### 3205 Law School Exploration

(Student Option; )  
58229 001 LEC, 10:10-12:05 W, Appleby Hall 303, In Person Term Based; Erin Reichelt; 2 cr.

### 3208 Internship Reflection: Making Meaning of Your Experience

(Student Option; Prereq: dept consent)  
55723 001 DIS, Completely Online; Angie Schmidt Whitney; 1 cr.

### 3571 HECUA: Inequality in America

- Contested Theories of Poverty, Inequality, and Social Change  
(Student Option; Prereq: concurrent registration is required (or allowed) in 3572, 3573, dept consentSOC5)  
49702 001 LEC, In Person Term Based; David Holliday; 4 cr.

### 3572 HECUA: Inequality in America - Social Policy and Anti-Poverty Strategies in Theory and Practice

(Student Option; Prereq: concurrent registration is required (or allowed) in 3571, 3573, dept consentDSJ)  
49703 001 FWK, In Person Term Based; David Holliday; 4 cr.

### 3573 HECUA: Inequality in America

Internship Seminar  
(Student Option; Prereq: concurrent registration is required (or allowed) in 3571, concurrent registration is required (or allowed) in 3572, dept consentCIV)  
49704 001 FWK, In Person Term Based; David Holliday; 8 cr.

### 3581 HECUA: Arts for Social Change - Art and Culture in Political, Social, Historical Context

(Student Option; Prereq: concurrent registration is required (or allowed) in 3582, 3583, dept consentAH)  
47265 001 LEC, In Person Term Based; David Holliday; 4 cr.

### 3582 HECUA: Arts Praxis - Social Justice Theory and Practice in the Field

(Student Option; Prereq: concurrent registration is required (or allowed) in 3581, 3583, dept consentDSJ)  
49691 001 FWK, In Person Term Based; David Holliday; 4 cr.

### 3583 HECUA: Arts for Social Change

Internship Seminar  
(Student Option; Prereq: concurrent registration is required (or allowed) in 3581, concurrent registration is required (or allowed) in 3582CIV)  
49701 001 FWK, In Person Term Based; David Holliday; 8 cr.

### 3591 HECUA Off-Campus Study

Program: Environmental Sustainability: Environmental and Climate Justice

(A-F only; Prereq: concurrent registration is required (or allowed) in 3592, concurrent registration is required (or allowed) in 3593, concurrent registration is required (or allowed) in 3594, dept consentENV)

51425 001 LEC, In Person Term Based; David Holliday; 4 cr.

### 3592 HECUA Off-Campus

Study Program: Environmntl Sustainability: Ecology & Socio-ecological Systems Change

(A-F only; Prereq: concurrent registration is required (or allowed) in 3591, concurrent registration is required (or allowed) in 3593, concurrent registration is required (or allowed) in 3594, dept consentSOC5)

51426 001 LEC, In Person Term Based; David Holliday; 4 cr.

### 3593 HECUA Off-Campus Study Program in Sustainability: Field Methods Research and Investigation

(A-F only; Prereq: concurrent registration is required (or allowed) in 3591, concurrent registration is required (or allowed) in 3592, 3594, dept consentBIOL)

51427 001 LEC, In Person Term Based; David Holliday; 4 cr.

### 3594 HECUA Off-Campus Study Program: Environmental Sustainability, Internship

(A-F only; Prereq: concurrent registration is required (or allowed) in 3591, concurrent registration is required (or allowed) in 3592, concurrent registration is required (or allowed) in 3593, dept consentCIV)

53283 001 FWK, In Person Term Based; David Holliday; 4 cr.

### 3901 Scholars Program Capstone Seminar

(A-F only; Prereq: dept consent, Community Engagement Scholars coordinator approval)  
55166 004 LEC, 10:00-11:45 F, Room TBA, In Person Term Based; Katie Peacock; 1 cr.

55163 001 LEC, 15:00-16:45 M, Room TBA, In Person Term Based; Laura Dammer Hess; 1 cr.

55165 003 LEC, 17:00-18:45 W, Room TBA, In Person Term Based; Laurel Hirt; 1 cr.

55164 002 LEC, 9:00-10:45 W, Room TBA, In Person Term Based; Monica Siems McKay; 1 cr.

### 3993 Directed Study

(Student Option; Prereq instr consent, dept consent, college consent.)  
53885 002 IND, In Person Term Based; Laurel Hirt; 1-4 cr.  
47264 001 IND, In Person Term Based; Paul Timmins; 1-4 cr.

## Interdisciplinary Archaeologic (INAR)

### 8200 Directed Readings

(Student Option; Prereq: InAr grad major or instr consent)  
48319 001 IND, In Person Term Based; 1-7 cr.

### 8300 Directed Research

(Student Option; Prereq: InAr grad major or instr consent)  
48320 001 IND, In Person Term Based; 1-7 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49129 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49227 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49331 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))  
49416 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49535 001 IND, In Person Term Based; 1-24 cr.

## Interdisciplinary Medicine (INMD)

### 6001 Directed Study I

(No Grade Associated; )  
50004 001 IND, In Person Term Based; 0-6 cr.

### 6310 Topics in Medical Anthropology I: the Normal and the Pathological

(P-N only; )  
53408 001 LEC, In Person Term Based; 1-6 cr.

### 6555 The Healer's Art: Awakening the Heart of Medicine

(P-N only; Prereq: Registered medical student)  
55162 001 DIS, In Person Term Based; 0-1 cr.

### 6804 Essentials of Clinical Medicine Part 2

(P-N only; )  
56516 001 LEC, 13:25-17:30 T, , In Person Term Based; Sharon Allen; 3 cr.

### 6807 Essentials of Clinical Medicine Part 3C

(P-N only; )  
56523 001 FWK, 13:25-16:25 M, Moos Health Sci Tower 2-650, In Person Term Based; David Satin; 5 cr.

### 6809 Human Health & Disease - Rheum, Derm & Opth, Ortho & Otol

(P-N only; )  
60823 001 LEC, In Person Term Based; Anne Minenko; 4 cr.

### 6810 Human Health & Disease - Renal & Endo/Repro

(P-N only; )  
56524 001 LEC, 8:00-12:05 M, , In Person Term Based; Catherine Niewoehner; 5 cr.

### 6812 Micro Biology and Immunology

(P-N only; )  
56517 001 LEC, 8:00-12:05 M, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Peter Southern; 5 cr.

### 6813 Neuroscience

(P-N only; )  
58078 002 LAB, In Person Term Based; Glenn Giesler; 3 cr.  
56518 001 LEC, 8:00-12:05 MWF, Moos Health Sci Tower 2-650, In Person Term Based; Scott Davenport; 3 cr.

### 6814 Physiology

(P-N only; )  
56519 001 LEC, In Person Term Based; 3 cr.

### 7000 Interdisciplinary Research

(H-N or Audit; Prereq: [3rd or 4th yr] medical student; MD/Ph.D. program preferred)  
50338 001 IND, In Person Term Based; Scott Davenport; 1-12 cr.

### 7001 Interdisciplinary Research II

(H-N or Audit; Prereq: 3rd or 4th yr medical student)  
50298 001 IND, In Person Term Based; Scott Davenport; 2-12 cr.

### 7214 MetroPAP: OB/Gyn

(H-N only; )  
67777 021 FWK, In Person Term Based; 6 cr.

### 7310 VAMC LIC - Medicine I (VALUE)

(H-N only; )  
69061 024 ROT, In Person Term Based; Heather Peterson; 8 cr.

### 7314 VAMC LIC - Primary Care Selective - Internal Medicine (VALUE)

(H-N only; )  
69062 019 ROT, In Person Term Based; Heather Peterson; 4 cr.

### 7315 VAMC LIC - Surgical Specialty Otolaryngology (VALUE)

(H-N only; )  
69064 007 ROT, In Person Term Based; Heather Peterson; 2-4 cr.

69063 020 ROT, In Person Term Based; Heather Peterson; 2-4 cr.

### 7316 VAMC LIC - Surgical Specialty Urology (VALUE)

(H-N only; )  
69065 020 ROT, In Person Term Based; Heather Peterson; 2-4 cr.  
69066 008 ROT, In Person Term Based; Heather Peterson; 2-4 cr.

### 7400 Advanced Clinical Skills: Independent Study

(P-N only; Prereq: TA)  
53940 001 FWK, In Person Term Based; 0-6 cr.

### 7521 Health Activism Elective

(P-N or Audit; Prereq: 3rd or 4th yr medical student)  
51704 001 LEC, In Person Term Based; 2-4 cr.

### 7540 Ambulatory Clinic for the Physician-Scientist

(H-N or Audit; Prereq: Med student)  
52812 001 ROT, In Person Term Based; Susan Shurson; 1-6 cr.

### 7552 Traditional Indian Medicine Clerkship

(H-N or Audit; Prereq: Med student, dept consent)  
51069 001 ROT, In Person Term Based; Joycelyn Dorscher; 2-6 cr.

### 7553 Elective Away at Centers for Disease Control (CDC)

(H-N or Audit; Prereq: Med student, dept consent)  
53344 001 ROT, In Person Term Based; 2-8 cr.

### 7555 Elective Away for Credit

(H-N or Audit; Prereq: Med student, dept consent)  
50308 002 ROT, In Person Term Based; Genne Fritts; 2-8 cr.  
49990 001 ROT, In Person Term Based; Genne Fritts; 2-8 cr.

### 7556 Elective Away for Credit 2

(H-N or Audit; )  
50299 001 ROT, In Person Term Based; Scott Davenport; 2-6 cr.

### 7557 Elective Away for Credit 3

(H-N or Audit; )  
51070 001 LEC, In Person Term Based; Scott Davenport; 2-6 cr.

### 7558 Elective Away for Credit 4

(H-N or Audit; )  
51071 001 LEC, In Person Term Based; Scott Davenport; 2-6 cr.

### 7565 Clinical Experience in International Medicine I

(P-N only; )  
51072 001 ROT, In Person Term Based; 1-12 cr.

### 7566 Clinical Experience in International Medicine II

(P-N only; )  
50304 002 ROT, In Person Term Based; 2-8 cr.  
49972 001 ROT, In Person Term Based; 2-8 cr.

### 7569 Clinical Experience in International Medicine III

(P-N only; Prereq: Med student, dept consent)  
52803 001 ROT, In Person Term Based; 2-6 cr.

### 7577 Introduction to Complementary and Alternative Therapies

(H-N or Audit; Prereq: Internet access, basic e-mail skills)  
49982 001 FWK, In Person Term Based; 3 cr.

### 7579 Rural Hawaii Public Health Elective

(H-N only; )  
52776 001 FWK, In Person Term Based; 2-6 cr.

### 7580 Integrative Healing in Hawaii

(H-N only; Prereq: Registered medical student)  
55993 001 FWK, In Person Term Based; 3 cr.

## Interior Design (IDES)

### 1602 Interior Design Studio II

(A-F only; Prereq: [1601 or DHA 1601] with grade of at least C-, interior design pre-major)

59733 002 LAB, 11:45-14:45 MW, McNeal Hall 470, In Person Term Based; Julie Hillman; 4 cr.  
59734 003 LAB, 15:00-18:00 MW, McNeal Hall 470, In Person Term Based; Julie Hillman; 4 cr.  
56245 001 LAB, 8:30-11:30 MW, McNeal Hall 470, In Person Term Based; Stephanie Zollinger; 4 cr.

### 2604 Interior Design Studio IV

(A-F or Audit; Prereq: [2603 or DHA 2603], 2613)  
56252 001 LAB, 12:50-15:50 MW, McNeal Hall 480, In Person Term Based; Abimbola Asojo; 4 cr.  
65577 002 LAB, 12:50-15:50 MW, McNeal Hall 475, In Person Term Based; Tina Patel; 4 cr.

### 2612 Interior Materials and Specifications

(A-F or Audit; Prereq: [Pass portfolio review, interior design major] or interior environments minor or design minor or instr consentENV)  
58350 001 LEC, 12:50-14:45 TTh, McNeal Hall 395, In Person Term Based; Julie Hillman; 4 cr.

### 2622 Computer Applications I

(A-F only; Prereq: Interior design major)  
58351 001 LAB, 8:30-10:25 MW, McNeal Hall 305, In Person Term Based; Abimbola Asojo; 2 cr.

### 3162 History of Interiors and Furnishings: 1750 to Present

(A-F or Audit; HIS)  
56342 001 LEC, 10:40-12:35 MW, Alderman Hall 415, In Person Term Based; Tasoulla Hadjiyanni; 4 cr.

### 3196 Field Study: National or International

(A-F or Audit; Prereq: instr consent)  
68411 001 FWK, 16:05-18:00 M, McNeal Hall 250, In Person Term Based; Stephanie Zollinger; 1-4 cr.

### 3605 Interior Design Studio V

(A-F only; Prereq: [2604 or DHA 2604, 2613] with grade of at least C-, interior design major)  
57669 001 LAB, 9:35-12:35 TTh, McNeal Hall 233, In Person Term Based; Tasoulla Hadjiyanni; 4 cr.

### 4160H Honors Capstone Project

(A-F only; Prereq: Interior design honors)  
56253 001 LEC, In Person Term Based; Abimbola Asojo; 2 cr.  
56255 004 LEC, In Person Term Based; Stephanie Zollinger; 2 cr.  
56254 002 LEC, In Person Term Based; Tasoulla Hadjiyanni; 2 cr.

### 4608 Interior Design Thesis

(A-F only; Prereq: [4615W or DHA 4615W], [4607 or DHA 4607] with grade of at least C-)  
56262 001 LAB, 8:30-11:30 TTh, McNeal Hall 475, In Person Term Based; Julie Hillman; 4 cr.

### 4616 Sustainable Commercial Interior Design

(A-F only; Prereq: 2613 or DHA 2613 or Architecture major or instr consent)  
56263 001 LEC, 18:15-21:00 T, McNeal Hall 144, In Person Term Based; 3 cr.

### 8192 Readings in Interior Design

(A-F or Audit; Prereq: instr consent)  
56268 001 IND, In Person Term Based; Abimbola Asojo; 1-3 cr.  
56270 004 IND, In Person Term Based; Stephanie Zollinger; 1-3 cr.  
56269 002 IND, In Person Term Based; Tasoulla Hadjiyanni; 1-3 cr.

### 8193 Directed Study

(A-F or Audit; Prereq: instr consent)  
56271 001 IND, In Person Term Based; Abimbola Asojo; 1-3 cr.  
56273 004 IND, In Person Term Based; Stephanie Zollinger; 1-3 cr.  
56272 002 IND, In Person Term Based; Tasoulla Hadjiyanni; 1-3 cr.

### 8222 Plan B Master's Project

(S-N or Audit; Prereq: [DHA or design] master's student, instr consent)  
56274 001 IND, In Person Term Based; Abimbola Asojo; 3 cr.  
56276 004 IND, In Person Term Based; Stephanie Zollinger; 3 cr.  
56275 002 IND, In Person Term Based; Tasoulla Hadjiyanni; 3 cr.

**International Business (IBUS)****1400 International Programs Elective**

(S-N only; )  
56489 001 LEC, Study Abroad; Allison Brimeyer; 1-4 cr.

**3010 Introduction to Global Entrepreneurship in China**

(A-F only; )  
54762 001 LEC, In Person Term Based; Allison Brimeyer; 4 cr.

**3021 Human Resources Management in Australia**

(A-F only; Prereq: ECON 1101, ECON 1102, PSY 1001)  
55590 001 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-114, In Person Term Based; Deirdre Opp; 4 cr.

**3033W Business Communication in Spain**

(A-F only; WI)  
58038 001 LEC, 13:00-14:15 TTh, Carlson School of Mgmt 1-136, In Person Term Based; Deirdre Opp; 4 cr.

**3101 Undergraduate Semester: CIMBA (Consortium of Universities for International Studies)**

(A-F only; Prereq: 60 cr)  
51101 001 LEC, Study Abroad; Deirdre Opp; 0-18 cr.

**3400 International Programs Elective**

(S-N only; )  
56490 001 LEC, Study Abroad; Deirdre Opp; 1-4 cr.

**3401 International Programs Elective**

(S-N only; )  
56491 001 LEC, Study Abroad; Deirdre Opp; 1-4 cr.

**3402 International Programs Elective**

(S-N only; )  
56492 001 LEC, Study Abroad; Deirdre Opp; 1-4 cr.

**3500 International Business: Undergraduate Exchange - BLOCK**

(S-N or Audit; Prereq: 60 cr)  
68718 001 LEC, Study Abroad; 0-18 cr.

**3999 International Experience Directed Study**

(S-N only; Prereq: dept consent)  
56488 001 IND, Study Abroad; Deirdre Opp; 1-3 cr.

**4082W Brand Management**

(A-F only; Prereq: MKTG 3001, MKTG 3010, MKTG 3040WI)  
55525 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-219, In Person Term Based; Deirdre Opp; 4 cr.

**4471 Information Systems and Innovation**

(A-F only; )  
68734 001 LEC, In Person Term Based; Deirdre Opp; 4 cr.

**5090 Study Abroad Independent Study**

(A-F only; )  
55932 001 LEC, Study Abroad; Deirdre Opp; 1-4 cr.

**5200 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr)  
54785 001 LEC, Study Abroad; Deirdre Opp; 0-16 cr.

**5201 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr)  
54786 001 LEC, Study Abroad; Deirdre Opp; 1-6 cr.

**5202 International Business: Undergraduate Exchange**

(S-N or Audit; )  
54787 001 LEC, Study Abroad; Deirdre Opp; 1-6 cr.

**5203 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr)  
54788 001 LEC, Study Abroad; Deirdre Opp; 0.5-6 cr.

**5204 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr)  
54789 001 LEC, Study Abroad; Deirdre Opp; 1-6 cr.

**5205 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr)  
54790 001 LEC, Study Abroad; Deirdre Opp; 1-6 cr.

**5206 International Business: Undergraduate Exchange**

(S-N or Audit; Prereq: 60 cr, Carlson School International Programs consent)  
54791 001 LEC, Study Abroad; Deirdre Opp; 1-6 cr.

**5400 Global Business Practicum**

(A-F only; Prereq: Grad student)  
68701 005 LEC, In Person Term Based; Deirdre Opp; 4 cr.  
68699 003 LEC, In Person Term Based; Deirdre Opp; 4 cr.  
68700 004 LEC, In Person Term Based; Deirdre Opp; 4 cr.  
68121 001 LEC, In Person Term Based; Deirdre Opp; 4 cr.  
68122 002 LEC, In Person Term Based; Deirdre Opp; 4 cr.

**6316 Sustainability & Cooperative Advantage in Scandinavia**

(A-F or Audit; Prereq: Carlson grad student)  
58457 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**6400 Carlson MBA Global Discovery**

(A-F only; Prereq: 2nd yr full-time Carlson MBA student)  
57596 003 LEC, 9:55-11:35 T, Carlson School of Mgmt 2-219, In Person Term Based; Deirdre Opp; 1-3 cr.  
56371 002 LEC, 11:50-13:30 W, Carlson School of Mgmt L-118, In Person Term Based; Deirdre Opp; 1-3 cr.  
56372 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt L-126, In Person Term Based; Deirdre Opp; 1-3 cr.

**Interprsnl Relations Research (IREL)****8001 Proseminar in Interpersonal Relationships Research**

(S-N or Audit; Prereq: Grad IRel minor)  
68753 001 LEC, 14:00-16:00 Th, Elliott Hall N353, In Person Term Based; Jeff Simpson; 2 cr.

**8360 Seminar: Topics in Interpersonal Relationships Research**

(Student Option; Prereq: Grad IRel minor or instr consent)  
57286 001 LEC, In Person Term Based; Jeff Simpson; 1-3 cr.

**Introduced Species, Genotypes (ISG)****5020 Risk Analysis Modeling for Introduced Species and Genotypes**

(S-N only; Prereq: [5010 or equiv], instr consent)  
54503 001 LEC, 9:00-17:00 TWTThF, Room TBA, In Person Term Based; David Andow; 1 cr.

**8001 Discussions in Introduced Species and Genotypes**

(S-N only; )  
55051 001 DIS, 8:00- 8:50 W, Ruttan Hall 143, In Person Term Based; Raymond Newman; 1 cr.

**Italian (ITAL)****1001 Beginning Italian**

(Student Option; )  
50997 002 DIS, 15:35-16:25 MTWThF, Kolthoff Hall 136, In Person Term Based; ; 5 cr.  
50996 001 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 139, In Person Term Based; ; 5 cr.  
50998 003 DIS, 16:40-18:45 MTh, Folwell Hall 120, In Person Term Based; ; 5 cr.

**1002 Beginning Italian**

(Student Option; Prereq: 1001 or instr consent)  
47738 004 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 138, In Person Term Based; ; 5 cr.  
48805 001 DIS, 10:10-11:00 MTWThF, Kolthoff Hall 139, In Person Term Based; ; 5 cr.

49809 005 DIS, 14:30-15:20 MTWThF, Folwell Hall 18, In Person Term Based; ; 5 cr.  
52994 006 DIS, 16:40-18:45 MTh, Folwell Hall 106, In Person Term Based; ; 5 cr.  
47736 002 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 140, In Person Term Based; ; 5 cr.  
47737 003 DIS, 12:20-13:10 MTWThF, Folwell Hall 118, In Person Term Based; Carlotta Dradi; 5 cr.

**1003 Intermediate Italian**

(Student Option; Prereq: 1001-1002)  
51261 001 DIS, 10:10-11:00 MTWThF, Kolthoff Hall 137, In Person Term Based; ; 5 cr.  
51262 002 DIS, 18:20-20:25 MTh, Kolthoff Hall 137, In Person Term Based; ; 5 cr.

**1004 Intermediate Italian**

(Student Option; Prereq: 1001, 1002, 1003)  
47746 002 DIS, 10:10-11:00 MTWThF, Folwell Hall 18, In Person Term Based; ; 5 cr.  
47749 004 DIS, 16:40-18:35 MTh, Folwell Hall 30, In Person Term Based; ; 5 cr.  
47748 001 DIS, 9:05- 9:55 MTWThF, Kolthoff Hall 137, In Person Term Based; ; 5 cr.  
47747 003 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 139, In Person Term Based; ; 5 cr.

**3015 Reading, Conversation, and Composition**

(Student Option; Prereq: 1004)  
50885 001 DIS, 12:20-14:15 MW, Folwell Hall 108, In Person Term Based; Susanna Ferlito; 4 cr.

**3550 Topics in 19th Century Italy**

(Student Option; Prereq: 3015 or instr consent)  
68046 001 LEC, 10:10-11:00 MWF, Folwell Hall 108, In Person Term Based; Susanna Ferlito; 3 cr.

**4970 Directed Readings**

(Student Option; Prereq: instr consent)  
47570 001 IND, In Person Term Based; 1-4 cr.  
52062 002 IND, In Person Term Based; 1-4 cr.  
52063 003 IND, In Person Term Based; 1-4 cr.

**5401 Mondo di Dante**

(Student Option; Prereq: 3015, 3201 or instr consent)  
68580 001 DIS, 14:30-16:25 TTh, Folwell Hall 107, In Person Term Based; Meets With: 001 ITAL 5609; Susan Noakes; 4 cr.

**5609 World of Dante**

(Student Option; )  
68048 001 DIS, 14:30-16:25 TTh, Folwell Hall 107, In Person Term Based; Meets With: 001 ITAL 5401; Susan Noakes; 4 cr.

**5970 Directed Readings**

(Student Option; Prereq: instr consent)  
47571 001 IND, In Person Term Based; 1-4 cr.  
51727 002 IND, In Person Term Based; 1-4 cr.  
52064 003 IND, In Person Term Based; 1-4 cr.

**8333 FTE: Masters**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49130 001 IND, In Person Term Based; 1 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))  
49417 001 IND, In Person Term Based; 1-18 cr.

**8992 Directed Readings**

(Student Option; Prereq: instr consent)  
47572 001 IND, In Person Term Based; 1-4 cr.  
52065 002 IND, In Person Term Based; 1-4 cr.  
52066 003 IND, In Person Term Based; 1-4 cr.

**Japanese (JPN)****1012 Beginning Japanese II**

(Student Option; Prereq: 1011)  
59688 003 LEC, 10:10-11:00 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 003 JPN 4002; Fumiko Matsumoto; 5 cr.  
59694 050 LEC, 16:40-19:00 TTh, Folwell Hall 31, In Person Term Based; Meets With: 050 JPN 4002; Fumiko Matsumoto; 5 cr.  
59686 001 LEC, 8:00- 8:50 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 JPN 4002; Fumiko Matsumoto; 5 cr.



59689 004 LEC, 11:15-12:05 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 004 JPN 4002; Fumiko Matsumoto; 5 cr.

59690 005 LEC, 12:20-13:10 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 005 JPN 4002; Fumiko Matsumoto; 5 cr.

59693 008 LEC, 14:30-15:20 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 008 JPN 4002; Fumiko Matsumoto; 5 cr.

59692 007 LEC, 13:25-14:15 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 007 JPN 4002; Fumiko Matsumoto; 5 cr.

59687 002 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 002 JPN 4002; Fumiko Matsumoto; 5 cr.

59691 006 LEC, 13:25-14:15 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 006 JPN 4002; Fumiko Matsumoto; 5 cr.

### 3022 Intermediate Japanese II

(Student Option; Prereq: 3021 or instr consent)

50069 001 LEC, 8:00-8:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 JPN 4004; Keiko Emmett; 5 cr.

58580 006 LEC, 14:30-15:20 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 006 JPN 4004; Keiko Emmett; 5 cr.

58989 004 LEC, 11:15-12:05 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 004 JPN 4004; Keiko Emmett; 5 cr.

58505 050 LEC, 16:40-19:00 TTh, Folwell Hall 13, In Person Term Based; Meets With: 050 JPN 4004; Keiko Emmett; 5 cr.

49725 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 005 JPN 4004; Keiko Emmett; 5 cr.

47928 002 LEC, 9:05-9:55 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 002 JPN 4004; Keiko Emmett; 5 cr.

54943 003 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 JPN 4004; Keiko Emmett; 5 cr.

### 3032 Third Year Japanese II

(Student Option; Prereq: 3031 or instr consent)

67658 001 LEC, 8:00-8:50 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 JPN 4006; Michiko Buchanan; 4 cr.

68413 003 LEC, 14:30-15:20 MTWThF, Kolthoff Hall 137, In Person Term Based; Meets With: 003 JPN 4006; Michiko Buchanan; 4 cr.

68412 002 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 140, In Person Term Based; Meets With: 002 JPN 4006; Michiko Buchanan; 4 cr.

### 3290 Japanese Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 4042)

56002 001 FWK, In Person Term Based; Michiko Buchanan; 1 cr.

### 4002 Beginning Japanese II

(Student Option; Prereq: 4001, grad student)

59697 003 LEC, 10:10-11:00 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 003 JPN 1012; Fumiko Matsumoto; 3 cr.

59703 050 LEC, 16:40-19:00 TTh, Folwell Hall 31, In Person Term Based; Meets With: 050 JPN 1012; Fumiko Matsumoto; 3 cr.

59695 001 LEC, 8:00-8:50 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 JPN 1012; Fumiko Matsumoto; 3 cr.

59698 004 LEC, 11:15-12:05 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 004 JPN 1012; Fumiko Matsumoto; 3 cr.

59699 005 LEC, 12:20-13:10 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 005 JPN 1012; Fumiko Matsumoto; 3 cr.

59702 008 LEC, 14:30-15:20 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 008 JPN 1012; Fumiko Matsumoto; 3 cr.

59701 007 LEC, 13:25-14:15 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 007 JPN 1012; Fumiko Matsumoto; 3 cr.

59696 002 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 002 JPN 1012; Fumiko Matsumoto; 3 cr.

59700 006 LEC, 13:25-14:15 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 006 JPN 1012; Fumiko Matsumoto; 3 cr.

### 4004 Intermediate Japanese II

(Student Option; Prereq: 4003, grad student)

58581 006 LEC, 14:30-15:20 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 006 JPN 3022; Keiko Emmett; 3 cr.

56900 004 LEC, 11:15-12:05 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 004 JPN 3022; Keiko Emmett; 3 cr.

58506 050 LEC, 16:40-19:00 TTh, Folwell Hall 13, In Person Term Based; Meets With: 050 JPN 3022; Keiko Emmett; 3 cr.

51185 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 005 JPN 3022; Keiko Emmett; 3 cr.

51184 002 LEC, 9:05-9:55 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 002 JPN 3022; Keiko Emmett; 3 cr.

55371 003 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 JPN 3022; Keiko Emmett; 3 cr.

51183 001 LEC, 8:00-8:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 JPN 3022; Keiko Emmett; 3 cr.

### 4006 Third Year Japanese II

(Student Option; Prereq: 4005, grad student)

67671 001 LEC, 8:00-8:50 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 JPN 3032; Michiko Buchanan; 3 cr.

67673 003 LEC, 14:30-15:20 MTWThF, Kolthoff Hall 137, In Person Term Based; Meets With: 003 JPN 3032; Michiko Buchanan; 3 cr.

67672 002 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 140, In Person Term Based; Meets With: 002 JPN 3032; Michiko Buchanan; 3 cr.

### 4042 Advanced Japanese Conversation and Composition II

(Student Option; Prereq: 4041 or instr consent)

54596 001 DIS, 9:05-11:00 TTh, Smith Hall 111, In Person Term Based; Michiko Buchanan; 4 cr.

### 5040 Readings in Japanese Texts

(A-F or Audit; Prereq: 4042 or equiv or instr consent)

67676 001 LEC, 9:45-11:00 MW, Folwell Hall 107, In Person Term Based; Maki Isaka; 3 cr.

### 5212 Introductory Classical Chinese II

(Student Option; Prereq: 5211 and two years of an East Asian language (Chinese, Japanese, Korean) or equivalent or instr consent)

60127 001 DIS, 12:20-13:10 MWF, Kolthoff Hall 137, In Person Term Based; Paul Rouzer; 3 cr.

## Jewish Studies (JWST)

### 3202 Bible: Prophecy in Ancient Israel

(Student Option; Prereq: ReIS 1001 or CNES 1201 or CNES 3201)

68555 001 LEC, 14:30-15:45 MW, Rapson Hall 13, In Person Term Based; Meets With: 001 CNES 3202001 RELS 3202; Hanne Levinson; 3 cr.

### 3512 History of Modern Israel/Palestine: Society, Culture, and Politics

(Student Option; GP)

68490 001 LEC, 13:00-14:15 TTh, Nicholson Hall 125, In Person Term Based; Meets With: 001 HIST 3512; Daniel Schroeter; 3 cr.

### 3729 Nazi Germany and Hitler's Europe

(Student Option; )

68491 001 LEC, 9:45-11:00 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 HIST 3729; Gary Cohen; 3 cr.

### 4000W Final Project, Writing Intensive

(A-F or Audit; Prereq: JwSt major, permission of dir of undergrad studiesW)

56039 002 IND, In Person Term Based; 4 cr.

52375 001 IND, In Person Term Based; 4 cr.

### 4001W Final Project, Writing Intensive

(A-F or Audit; Prereq: concurrent registration is required (or allowed) in 5xxx, JwSt major, permission of dir of undergrad studiesW)

47874 001 IND, In Person Term Based; 1 cr.

### 5992 Directed Readings

(Student Option; Prereq: instr consent)

53352 001 IND, In Person Term Based; 1-12 cr.

## Journalism & Mass Communication (JOUR)

### 1001 Introduction to Mass Communication (Student Option; SOCS,TS)

46185 003 LEC, 9:05-9:55 MWF, Murphy Hall 130, In Person Term Based; 3 cr.

46184 001 LEC, 8:15-9:30 TTh, Nicholson Hall 275, In Person Term Based; Julie Golias; 3 cr.

49566 002 LEC, 14:30-15:45 TTh, Nicholson Hall 275, In Person Term Based; Julie Golias; 3 cr.

### 1501 Digital Games, Sims and Apps: Storytelling, Play and Commerce

(Student Option; AH,TS)

67370 001 LEC, 14:30-15:45 MW, Bruininks Hall 114, In Person Term Based; 3 cr.

### 1904 Freshman Seminar

(A-F or Audit; Prereq: freshmanGP)

58611 001 LEC, 13:00-14:15 TTh, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.

### 3004V Honors: Information for Mass Communication

(A-F only; Prereq: Honors, [jour major or mass comm minor or approved BIS/IDIM/ICP program]W)

52683 001 LEC, 13:00-14:15 M, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

60088 002 DIS, 13:00-14:15 W, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 3004W Information for Mass Communication

(A-F only; Prereq: Jour major or jour minor or approved BIS/IDIM/ICP programW)

53065 009 DIS, 13:25-14:15 F, Murphy Hall 130, In Person Term Based; Meets With: 010 JOUR 3004W011 JOUR 3004W012 JOUR 3004W; 3 cr.

53066 010 DIS, 13:25-14:15 F, Murphy Hall 130, In Person Term Based; Meets With: 009 JOUR 3004W011 JOUR 3004W012 JOUR 3004W; 3 cr.

53067 011 DIS, 13:25-14:15 F, Murphy Hall 130, In Person Term Based; Meets With: 009 JOUR 3004W010 JOUR 3004W012 JOUR 3004W; 3 cr.

58438 012 DIS, 13:25-14:15 F, Murphy Hall 130, In Person Term Based; Meets With: 009 JOUR 3004W010 JOUR 3004W011 JOUR 3004W; 3 cr.

49567 002 DIS, 10:10-11:00 F, Blegen Hall 5, In Person Term Based; Meets With: 003 JOUR 3004W004 JOUR 3004W; 3 cr.

53062 003 DIS, 10:10-11:00 F, Blegen Hall 5, In Person Term Based; Meets With: 002 JOUR 3004W004 JOUR 3004W; 3 cr.

53063 004 DIS, 10:10-11:00 F, Blegen Hall 5, In Person Term Based; Meets With: 002 JOUR 3004W003 JOUR 3004W; 3 cr.

53064 008 LEC, 13:25-14:15 MW, Murphy Hall 130, In Person Term Based; 3 cr.

46186 001 LEC, 10:10-11:00 MW, Murphy Hall 130, In Person Term Based; Julie Golias; 3 cr.

### 3005 Mass Media Effects

(Student Option; SOCS)

57273 001 LEC, 13:00-14:15 TTh, Murphy Hall 130, In Person Term Based; Julie Golias; 3 cr.

### 3006 Visual Communication

(Student Option; )

50510 001 LEC, 11:15-12:30 MW, Murphy Hall 130, In Person Term Based; Julie Golias; 3 cr.

### 3101 News Reporting and Writing

(A-F only; Prereq: [3004W or 3004V or concurrent registration is required (or allowed) in 3004W or 3004V], [jour major or admitted pre-jour or approved BIS/IDIM/ICP program])

60071 001 LEC, 10:10-12:05 TTh, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

57827 003 LEC, 12:20-14:15 MW, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

56111 002 LEC, 12:20-14:15 TTh, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

### 3102 Multimedia Production and Storytelling

(A-F only; Prereq: [3004W or 3004V or concurrent registration is required (or allowed) in 3004W or concurrent registration is required (or allowed) in 3004V], [3101 or 3101H or concurrent registration is required (or allowed) in 3101 or concurrent registration is required (or allowed) in 3101H or 3279W or concurrent registration is required (or allowed) in 3279W or 3241 or concurrent registration is required (or allowed) in 3241], [jour major or admitted pre-jour or approved BIS/IDIM/ICP program])

56115 001 LEC, 14:30-16:25 MW, Murphy Hall 10 Center, In Person Term Based; Julie Golias; 3 cr.  
57828 002 LEC, 15:35-17:30 TTh, Murphy Hall 10 Center, In Person Term Based; Julie Golias; 3 cr.

### 3121 Intermediate News Reporting

(A-F only; Prereq: [3004W or 3004V], [3101 or 3101H], [jour major or approved BIS/IDIM/ICP program])  
53176 001 LEC, 9:45-11:00 TTh, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.

### 3155 Editing for Print and Digital Audiences

(A-F only; Prereq: [3004W or 3004V], 3101 or 3101H], [jour major or approved BIS/IDIM/ICP program])  
46187 001 LEC, 10:10-12:05 MW, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

### 3173W Magazine & Feature Writing

(A-F only; Prereq: [3004W or 3004V], 3101 or 3101H, or 3279W], [jour major or approved BIS/IDIM/ICP program]WI)  
60046 001 LEC, 13:00-14:15 TTh, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.

### 3201 Principles of Strategic Communication

(A-F or Audit; Prereq: [3004W or 3004V or concurrent registration is required (or allowed) in 3004W or concurrent registration is required (or allowed) in 3004V], [jour major or mass comm minor or admitted pre-jour or approved BIS/IDIM/ICP program])  
46189 001 LEC, 11:15-12:05 MWF, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.  
49831 002 LEC, 11:15-12:30 TTh, Murphy Hall 130, In Person Term Based; Julie Golias; 3 cr.

### 3241 Advertising Strategy and Creative Development

(A-F only; Prereq: [3004W or 3004V], 3201, [jour major or approved BIS/IDIM/ICP program])  
67448 003 LEC, 9:45-11:00 MW, Murphy Hall 228, In Person Term Based; 3 cr.  
50257 001 LEC, 14:30-15:45 MW, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.  
57831 002 LEC, 21:45-23:00 TTh, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.

### 3251 Evaluative Research in Strategic Communication

(A-F only; Prereq: [3004W or 3004V], [3201 or 3202], Jour major or approved BIS/IDIM/ICP major)  
48748 001 LEC, 14:30-15:45 TTh, Bruininks Hall 420B, In Person Term Based; Julie Golias; 3 cr.

### 3253 Account Planning

(A-F only; Prereq: [JOUR 3004W or JOUR 3004V], [JOUR 3201 or JOUR 3202], Jour major or approved BIS/IDIM/ICP major)  
57832 001 LEC, 20:15-21:30 MW, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 3261 Media Planning

(A-F only; Prereq: [3004W or 3004V], [3201 or 3202], [jour major or approved BIS/IDIM/ICP program])  
46192 001 LEC, 16:00-17:15 TTh, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 3275 Digital Strategy in Strategic Communication

(A-F only; Prereq: [3004W or 3004V], [3201 or 3202], [3241 or 3279W or concurrent registration is required (or allowed) in 3241 or concurrent registration is required (or allowed) in 3279W], [jour major or approved BIS/IDIM/ICP program])  
60041 001 LEC, 11:15-12:30 MW, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.  
58426 002 LEC, 11:15-12:30 TTh, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 3279W Professional Writing for Strategic Communication

(A-F only; Prereq: [3004W or 3004V], [3201 or 3202], [jour major or approved BIS/IDIM/ICP]WI)  
67412 002 LEC, 17:45-19:00 TTh, Murphy Hall 10 North, In Person Term Based; 3 cr.  
46188 001 LEC, 13:00-14:15 MW, Murphy Hall 10 Center, In Person Term Based; Julie Golias; 3 cr.  
58324 003 LEC, 14:30-15:45 TTh, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

### 3321 Media Design

(A-F only; Prereq: [3004V or 3004W or concurrent registration is required (or allowed) in 3004W or concurrent registration is required (or allowed) in 3004V], [jour major or admitted pre-jour or approved BIS/IDIM/ICP program])  
60079 003 LEC, 12:20-14:15 TTh, Murphy Hall 10 North, In Person Term Based; Julie Golias; 3 cr.  
48749 001 LEC, 12:20-14:15 MW, Murphy Hall 10 North, In Person Term Based; Julie Golias; 3 cr.  
53853 002 LEC, 14:30-16:25 TTh, Murphy Hall 10 North, In Person Term Based; Julie Golias; 3 cr.

### 3451 TV, Radio and Digital News Reporting

(A-F only; Prereq: [3004W or 3004V], [3101 or 3101H or 3279W], Jour 3102, [jour major or approved BIS/IDIM/ICP program])  
55196 001 LEC, 14:30-15:45 MW, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.  
55197 002 LAB, 15:45-17:30 M, Murphy Hall 10 South, In Person Term Based; Julie Golias; 3 cr.

### 3551 Economics of New Media

(Student Option; TS)  
60048 001 LEC, 9:45-11:00 TTh, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 3614 History of Media Communication

(Student Option; HIS,TS)  
68076 001 LEC, 14:30-15:45 TTh, Nicholson Hall 155, In Person Term Based; Julie Golias; 3 cr.

### 3745 Mass Media and Popular Culture

(Student Option; AH,DSJ)  
58203 002 LEC, 9:45-11:00 TTh, Nicholson Hall 155, In Person Term Based; Julie Golias; 3 cr.  
46190 001 LEC, 9:45-11:00 MW, Nicholson Hall 275, In Person Term Based; Julie Golias; 3 cr.

### 3771 Mass Media Ethics: Moral Reasoning and Case Studies

(Student Option; CIV)  
48539 001 LEC, 13:00-14:15 TTh, Rapson Hall 31, In Person Term Based; Julie Golias; 3 cr.

### 3775 Administrative Law and Regulation for Strategic Communication

(Student Option; CIV)  
57837 001 LEC, 8:15-9:30 TTh, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.

### 3776 Mass Communication Law

(A-F only; )  
46191 001 LEC, 8:15-9:30 TTh, Murphy Hall 130, In Person Term Based; 3 cr.

### 3993 Directed Study

(A-F or Audit; Prereq: [Jour major or jour minor or approved IDIM major or ICP major or BIS major], instr consent, dept consent, college consent.)  
50251 001 IND, In Person Term Based; 1-3 cr.  
50966 003 IND, In Person Term Based; 1-3 cr.  
50970 007 IND, In Person Term Based; 1-3 cr.  
50976 013 IND, In Person Term Based; 1-3 cr.  
50978 015 IND, In Person Term Based; 1-3 cr.  
50979 016 IND, In Person Term Based; 1-3 cr.  
51338 017 IND, In Person Term Based; 1-3 cr.  
51347 026 IND, In Person Term Based; 1-3 cr.  
51348 027 IND, In Person Term Based; 1-3 cr.  
50965 002 IND, In Person Term Based; 1-3 cr.  
50974 011 IND, In Person Term Based; 1-3 cr.  
51345 024 IND, In Person Term Based; 1-3 cr.  
51339 018 IND, In Person Term Based; Albert Tims; 1-3 cr.  
51343 022 IND, In Person Term Based; Dan Sullivan; 1-3 cr.  
51340 019 IND, In Person Term Based; Daniel Wackman; 1-3 cr.  
51346 025 IND, In Person Term Based; Gayle Golden; 1-3 cr.  
50967 004 IND, In Person Term Based; Giovanna Dell'Orto; 1-3 cr.  
50975 012 IND, In Person Term Based; Jane Kirtley; 1-3 cr.  
50973 010 IND, In Person Term Based; Jisu Huh; 1-3 cr.  
50969 006 IND, In Person Term Based; John Eighmey; 1-3 cr.  
50972 009 IND, In Person Term Based; Kathleen Hansen; 1-3 cr.  
50968 005 IND, In Person Term Based; Kenneth Doyle; 1-3 cr.  
51342 021 IND, In Person Term Based; Shayla Thiel-Stern; 1-3 cr.  
50971 008 IND, In Person Term Based; 1-3 cr.  
51344 023 IND, In Person Term Based; 1-3 cr.  
51349 028 IND, In Person Term Based; 1-3 cr.  
50977 014 IND, In Person Term Based; Christopher Ison; 1-3 cr.  
51341 020 IND, In Person Term Based; Marco Yzer; 1-3 cr.

### 3996 Directed Internship

(S-N or Audit; Prereq: Jour major, dept consent)  
57548 006 FWK, In Person Term Based; 1 cr.  
50980 001 FWK, In Person Term Based; 1 cr.  
53545 004 FWK, In Person Term Based; 1 cr.  
53543 002 FWK, In Person Term Based; Gayle Golden; 1 cr.  
53544 003 FWK, In Person Term Based; Jennifer Johnson; 1 cr.  
53546 005 FWK, In Person Term Based; Jerry Broeckert; 1 cr.

### 4193 Brovald-Sim Community Journalism Practicum: Murphy News Service

(A-F only; Prereq: [3004W or 3004V], [3101 or 3101H], [jour major or approved BIS/IDIM/ICP program])  
58458 001 LAB, 9:45-11:00 MW, Murphy Hall 10 North, In Person Term Based; Julie Golias; 3 cr.

### 4242 Advertising Portfolio Development

(A-F only; Prereq: [3004W or 3004V], 3201, 3241, [jour major or approved BIS/IDIM/ICP program])  
54136 001 LEC, 13:00-14:15 MW, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.

### 4251 Psychology of Advertising

(Student Option; )  
58703 001 LEC, 13:00-14:15 TTh, Nicholson Hall 155, In Person Term Based; Julie Golias; 3 cr.

### 4259 Strategic Communication Case Analysis

(A-F only; Prereq: [3004W or 3004V], [3201 or Jour 3202], any one additional 32xx skills course, [jour major or approved BIS/IDIM/ICP program])  
50256 002 LEC, In Person Term Based; 3 cr.  
68498 003 LEC, 11:15-12:30 TTh, Murphy Hall 25, In Person Term Based; 3 cr.  
68870 004 LEC, 8:15-9:30 TTh, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.  
58329 001 LEC, 11:15-12:30 TTh, Murphy Hall 228, In Person Term Based; Julie Golias; 3 cr.

### 4262 Management for Strategic Communication

(A-F only; Prereq: [3004W or 3004V], [3201 or 3202], one additional JOUR 32xx skills course, jour major or approved BIS/IDIM/ICP program)  
67427 001 LEC, 13:00-14:15 TTh, Murphy Hall 214, In Person Term Based; 3 cr.  
68377 002 LEC, 14:30-15:45 TTh, Murphy Hall 214, In Person Term Based; 3 cr.

### 4263 Strategic Communication Campaigns

(A-F or Audit; Prereq: [4242 or 4259 or 4262 or concurrent registration is required (or allowed) in 4242 or concurrent registration is required (or allowed) in 4259 or concurrent registration is required (or allowed) in 4262 or ROME 3003], [jour major or approved BIS/IDIM/ICP program])  
67429 007 LEC, 9:05-11:00 MW, Murphy Hall 15, In Person Term Based; 3 cr.  
67428 006 LEC, 16:00-17:55 MW, Murphy Hall 25, In Person Term Based; 3 cr.  
46193 001 LEC, 10:10-12:05 TTh, Murphy Hall 15, In Person Term Based; Julie Golias; 3 cr.  
48757 004 LEC, 8:00-9:55 MW, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.  
50262 002 LEC, 10:10-12:05 MW, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.  
58330 005 LEC, 14:30-16:25 TTh, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.  
57838 003 LEC, 16:40-18:35 TTh, Murphy Hall 25, In Person Term Based; Julie Golias; 3 cr.

### 4272 Interactive Advertising

(A-F or Audit; Prereq: Jour major or mass comm minor or approved BIS/IDIM/ICP program)  
53502 001 LEC, 11:15-12:30 MW, Nicholson Hall 35, In Person Term Based; Julie Golias; 3 cr.

### 4274W Advertising in Society

(Student Option; WI)  
46194 001 LEC, 16:40-17:55 MW, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

### 4302 Electronic Photojournalism

(A-F or Audit; Prereq: [3004W or 3004V], 3102, [jour major or approved BIS/IDIM/ICP program])  
50133 001 LEC, 11:15-12:30 MW, Murphy Hall 10 Center, In Person Term Based; Julie Golias; 3 cr.

### 4303 Documentary Photojournalism

(A-F only; Prereq: [[3004W or 3004V], 3102, [jour major or approved BIS/DIM/ICP program]] or instr consent)  
67430 001 LEC, 14:30-15:45 TTh, Murphy Hall 15, In Person  
Term Based; 3 cr.

#### 4452 Electronic Newscast Producing

(A-F only; Prereq: [3004W or 3004V], [3101 or 3101H], 3451, [3121 or concurrent registration is required (or allowed) in 3121] [jour major or approved BIS/DIM/ICP program])  
67431 001 LEC, 9:05- 9:55 MWF, Murphy Hall 10, 9:05- 9:55 MWF, Murphy Hall 10 Center, 9:05- 9:55 MWF, Murphy Hall 10H, In Person Term Based; 3 cr.  
67432 002 LAB, 10:10-11:00 MWF, Murphy Hall 10, 10:10-11:00 MWF, Murphy Hall 10 Center, 10:10-11:00 MWF, Murphy Hall 10H, In Person Term Based; 3 cr.

#### 4551 New Media and Culture

(Student Option; AH,TS)  
56391 001 LEC, 9:45-11:00 TTh, Murphy Hall 130, In Person  
Term Based; Julie Golias; 3 cr.

#### 4721 Mass Media and U.S. Society

(Student Option; DSJ,SOCs)  
57918 001 LEC, 9:45-11:00 MW, Murphy Hall 214, In Person  
Term Based; Meets With: 001 JOUR 4721H; 3 cr.

#### 4721H Mass Media and U.S. Society

(A-F only; Prereq: HonorsDSJ,SOCs)  
57919 001 LEC, 9:45-11:00 MW, Murphy Hall 214, In Person  
Term Based; Meets With: 001 JOUR 4721; 3 cr.

#### 4801 Global Communication

(Student Option; )  
60045 001 LEC, 14:30-15:45 TTh, Rapson Hall 31, In Person  
Term Based; Julie Golias; 3 cr.

#### 4992 Field Based Practicum

(A-F or Audit; Prereq: Jour major)  
54137 001 LAB, 9:00-10:30 W, Room TBA, In Person Term  
Based; Julie Golias; 3 cr.

#### 4993H Honors: Projects

(A-F or Audit; Prereq Jour major, honors div regis, college consent, dept consent, instr consent. )  
48758 001 IND, In Person Term Based; 3 cr.  
50981 002 IND, In Person Term Based; 3 cr.  
51350 007 IND, In Person Term Based; 3 cr.  
51356 013 IND, In Person Term Based; 3 cr.  
51359 016 IND, In Person Term Based; 3 cr.  
51360 017 IND, In Person Term Based; 3 cr.  
51369 026 IND, In Person Term Based; 3 cr.  
51370 027 IND, In Person Term Based; 3 cr.  
51354 011 IND, In Person Term Based; ; 3 cr.  
51366 023 IND, In Person Term Based; ; 3 cr.  
51367 024 IND, In Person Term Based; ; 3 cr.  
51361 018 IND, In Person Term Based; Albert Tims; 3 cr.  
51365 022 IND, In Person Term Based; Dan Sullivan; 3 cr.  
51362 019 IND, In Person Term Based; Daniel Wackman; 3 cr.  
51358 015 IND, In Person Term Based; Dona Schwartz; 3 cr.  
51368 025 IND, In Person Term Based; Gayle Golden; 3 cr.  
50983 004 IND, In Person Term Based; Giovanna Dell'Orto; 3 cr.  
51355 012 IND, In Person Term Based; Jane Kirtley; 3 cr.  
50982 003 IND, In Person Term Based; Jennifer Johnson; 3 cr.  
51353 010 IND, In Person Term Based; Jisu Huh; 3 cr.  
50985 006 IND, In Person Term Based; John Eighmey; 3 cr.  
51352 009 IND, In Person Term Based; Kathleen Hansen; 3 cr.  
50984 005 IND, In Person Term Based; Kenneth Doyle; 3 cr.  
51364 021 IND, In Person Term Based; Shayla Thiel-Stern; 3 cr.  
51351 008 IND, In Person Term Based; ; 3 cr.  
51371 028 IND, In Person Term Based; ; 3 cr.  
51357 014 IND, In Person Term Based; Christopher Ison; 3 cr.  
51363 020 IND, In Person Term Based; Marco Yzer; 3 cr.

#### 5155 Database Reporting

(A-F only; Prereq: Jour 3004W or 3004V, 3101 or 3101H, 3103, 3121 or concurrent registration is required (or allowed) in 3121 jour major or approved BIS/DIM/ICP program)  
49060 001 LEC, 8:15- 9:30 MW, Murphy Hall 10 South, In  
Person Term Based; Julie Golias; 3 cr.

#### 5174 Magazine Editing and Production

(A-F only; Prereq: [3004W or 3004V], [3155 or 3173W or 3279W or 3321 or 4302]], [jour major or approved BIS/DIM/ICP program])  
56064 001 LEC, 14:30-16:25 MW, Murphy Hall 10 North, 14:30-16:25 MW, Murphy Hall 214, In Person Term Based; Julie Golias; 3 cr.

#### 5251 Psychology of Advertising

(Student Option; Prereq: Strat Comm MA grad major or grad mass comm major/minor or instr consent)  
52959 001 LEC, 17:30-20:00 T, Murphy Hall 228, In Person  
Term Based; Julie Golias; 3 cr.

#### 5542 Theory-based Health Message Design

(A-F or Audit; )  
60050 001 LEC, 9:45-11:00 TTh, Murphy Hall 228, In Person  
Term Based; Julie Golias; 3 cr.

#### 5606W Literary Aspects of Journalism

(Student Option; WI)  
59265 001 LEC, 14:30-15:20 MWF, Murphy Hall 15, In  
Person Term Based; 3 cr.

#### 5993 Directed Study

(A-F or Audit; Prereq [Jour major or jour minor or approved IDIM major or ICP major or BIS major], GPA of at least 3.00, college consent, dept consent, instr consent.)  
48759 001 IND, In Person Term Based; 1-3 cr.  
50987 003 IND, In Person Term Based; 1-3 cr.  
51372 007 IND, In Person Term Based; 1-3 cr.  
51378 013 IND, In Person Term Based; 1-3 cr.  
51380 015 IND, In Person Term Based; 1-3 cr.  
51381 016 IND, In Person Term Based; 1-3 cr.  
51382 017 IND, In Person Term Based; 1-3 cr.  
51391 026 IND, In Person Term Based; 1-3 cr.  
51392 027 IND, In Person Term Based; 1-3 cr.  
51376 011 IND, In Person Term Based; ; 1-3 cr.  
51388 023 IND, In Person Term Based; ; 1-3 cr.  
51389 024 IND, In Person Term Based; ; 1-3 cr.  
51383 018 IND, In Person Term Based; Albert Tims; 1-3 cr.  
51387 022 IND, In Person Term Based; Dan Sullivan; 1-3 cr.  
51384 019 IND, In Person Term Based; Daniel Wackman; 1-3 cr.  
51390 025 IND, In Person Term Based; Gayle Golden; 1-3 cr.  
51375 010 IND, In Person Term Based; Jisu Huh; 1-3 cr.  
50990 006 IND, In Person Term Based; John Eighmey; 1-3 cr.  
51374 009 IND, In Person Term Based; Kathleen Hansen; 1-3 cr.  
50989 005 IND, In Person Term Based; Kenneth Doyle; 1-3 cr.  
51386 021 IND, In Person Term Based; Shayla Thiel-Stern; 1-3 cr.  
50986 002 IND, In Person Term Based; ; 1-3 cr.  
51373 008 IND, In Person Term Based; ; 1-3 cr.  
51393 028 IND, In Person Term Based; ; 1-3 cr.  
51379 014 IND, In Person Term Based; Christopher Ison; 1-3 cr.  
51385 020 IND, In Person Term Based; Marco Yzer; 1-3 cr.  
50988 004 IND, In Person Term Based; Giovanna Dell'Orto; 1-3 cr.  
51377 012 IND, In Person Term Based; Jane Kirtley; 1-3 cr.

#### 8003 Digital Media Issues and Theories

(A-F or Audit; Prereq: Journalism grad student)  
58437 001 LEC, 11:15-12:30 MW, Murphy Hall 15, In Person  
Term Based; Julie Golias; 3 cr.

#### 8202 Generation and Selection of Communication Strategies

(A-F only; Prereq: Strat Comm MA grad major)  
52960 001 LEC, 17:30-20:00 Th, Murphy Hall 228, In Person  
Term Based; Julie Golias; 3 cr.

#### 8205 Cases in Strategic Communication

(A-F only; Prereq: 8203, strat comm MA grad major)  
53503 001 LEC, 17:30-20:00 Th, Murphy Hall 214, In Person  
Term Based; Julie Golias; 3 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49131 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49228 001 IND, In Person Term Based; 1 cr.

#### 8503 Seminar: Qualitative Methods in Mass Communication Research

(A-F or Audit; Prereq: Grad students enrolled in Mass Communication MA or PhD program or instr consent)  
59151 001 LEC, 13:00-14:15 MW, Murphy Hall 15, In Person  
Term Based; Julie Golias; 3 cr.

#### 8621 Seminar: Public Relations Theory and Research

(A-F only; Prereq: Grad students enrolled in Mass Communication MA or PhD program or instr consent)  
67446 001 LEC, 14:30-15:45 MW, Murphy Hall 25, In Person  
Term Based; 3 cr.

#### 8651 Seminar: Mass Communication, Audiences, and Society

(A-F or Audit; Prereq: 8001 or 8002 or equiv)  
67447 001 LEC, 11:15-14:15 Th, Murphy Hall 200, In Person  
Term Based; 3 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49332 001 IND, In Person Term Based; ; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))  
49418 001 IND, In Person Term Based; 1-18 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49536 001 IND, In Person Term Based; 1-24 cr.

#### 8990 Special Problems in Mass Communications

(A-F or Audit; Prereq: Mass comm grad student or instr consent)  
68114 001 LEC, 13:00-14:15 TTh, Murphy Hall 15, In Person  
Term Based; 3-4 cr.

#### 8993 Directed Study

(A-F or Audit; Prereq: Grad mass comm major or minor, instr consent, dept consent)  
48760 001 IND, In Person Term Based; 1-6 cr.  
51395 003 IND, In Person Term Based; 1-6 cr.  
51399 007 IND, In Person Term Based; 1-6 cr.  
51405 013 IND, In Person Term Based; 1-6 cr.  
51407 015 IND, In Person Term Based; 1-6 cr.  
51408 016 IND, In Person Term Based; 1-6 cr.  
51409 017 IND, In Person Term Based; 1-6 cr.  
51418 026 IND, In Person Term Based; 1-6 cr.  
51419 027 IND, In Person Term Based; 1-6 cr.  
51394 002 IND, In Person Term Based; ; 1-6 cr.  
51403 011 IND, In Person Term Based; ; 1-6 cr.  
51416 024 IND, In Person Term Based; ; 1-6 cr.  
51410 018 IND, In Person Term Based; Albert Tims; 1-6 cr.  
51414 022 IND, In Person Term Based; Dan Sullivan; 1-6 cr.  
51411 019 IND, In Person Term Based; Daniel Wackman; 1-6 cr.  
51417 025 IND, In Person Term Based; Gayle Golden; 1-6 cr.  
51396 004 IND, In Person Term Based; Giovanna Dell'Orto; 1-6 cr.  
51404 012 IND, In Person Term Based; Jane Kirtley; 1-6 cr.  
51402 010 IND, In Person Term Based; Jisu Huh; 1-6 cr.  
51398 006 IND, In Person Term Based; John Eighmey; 1-6 cr.  
51401 009 IND, In Person Term Based; Kathleen Hansen; 1-6 cr.  
51397 005 IND, In Person Term Based; Kenneth Doyle; 1-6 cr.  
51412 020 IND, In Person Term Based; Marco Yzer; 1-6 cr.  
51413 021 IND, In Person Term Based; Shayla Thiel-Stern; 1-6 cr.  
51400 008 IND, In Person Term Based; ; 1-6 cr.  
51415 023 IND, In Person Term Based; ; 1-6 cr.  
51420 028 IND, In Person Term Based; ; 1-6 cr.  
51406 014 IND, In Person Term Based; Christopher Ison; 1-6 cr.

## Kinesiology (KIN)

#### 1050 Beginning Military Physical Fitness Training

(A-F or Audit; )  
48841 001 LEC, 6:30- 7:20 MWF, Armory Building 100, In  
Person Term Based; Meets With: 001 KIN 3050; Thomas  
Axtell; 1 cr.

#### 1871 Survey of Kinesiology, Recreation, and Sport

(A-F or Audit; )  
55457 002 LEC, 8:15- 9:30 TTh, Rapson Hall 100, In Person  
Term Based; Meets With: 001 KIN 1871; Chelsey Thul; 3  
cr.

46754 001 LEC, 8:15- 9:30 TTh, Rapson Hall 100, In Person Term Based; Meets With: 002 KIN 1871; Chelsey Thul; 3 cr.

### 3001 Lifetime Health and Wellness

(A-F or Audit; SOCS)

54870 003 LEC, 13:00-14:15 TTh, Akerman Hall 209, In Person Term Based; Carol Nielsen; 3 cr.  
46717 001 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-106, In Person Term Based; Daheia Barr-Anderson; 3 cr.  
50808 002 LEC, 11:15-12:30 TTh, Pillsbury Hall 110, In Person Term Based; Morgan Betker; 3 cr.

### 3027 Human Anatomy for Kinesiology

Students

(A-F or Audit; )

49629 001 LEC, 11:15-12:05 MW, Mechanical Engineering 18, In Person Term Based; George Biltz; 3 cr.  
49630 002 LAB, 12:20-13:10 W, Mariucci Arena 141, In Person Term Based; George Biltz; 3 cr.  
49631 003 LAB, 13:25-14:15 W, Mariucci Arena 141, In Person Term Based; George Biltz; 3 cr.  
56807 004 LAB, 14:30-15:20 W, Mariucci Arena 141, In Person Term Based; George Biltz; 3 cr.  
57902 005 LAB, 15:35-16:25 W, Mariucci Arena 141, In Person Term Based; George Biltz; 3 cr.

### 3050 Advanced Military Physical Fitness

Training

(A-F or Audit; Prereq: 4 cr of 1050 or instr consent)

48842 001 LEC, 6:30- 7:20 MWF, Armory Building 100, In Person Term Based; Meets With: 001 KIN 1050; Thomas Axtell; 1 cr.

### 3112 Introduction to Biomechanics

(A-F only; Prereq: [PHYS 1101W or PHYS 1201W or PHYS 1301W or PHYS 1401W or 1107], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601]; 3385 recommended)

48673 003 LAB, 10:10-11:50 Th, Cooke Hall 20, In Person Term Based; Joshua Aman; 4 cr.  
46864 001 LEC, 9:05-11:00 T, Bleggen Hall 317, In Person Term Based; Joshua Aman; 4 cr.  
48672 002 LAB, 8:15- 9:55 Th, Cooke Hall 20, In Person Term Based; Joshua Aman; 4 cr.  
48674 004 LAB, 12:05-13:45 Th, Cooke Hall 20, In Person Term Based; Joshua Aman; 4 cr.  
53301 005 LAB, 14:00-15:40 Th, Cooke Hall 20, In Person Term Based; Joshua Aman; 4 cr.  
57470 006 LAB, 16:00-17:40 Th, Cooke Hall 20, In Person Term Based; Joshua Aman; 4 cr.

### 3114 Prevention and Care of Athletic

Injuries

(A-F only; Prereq: [3027 or ANAT 3001 or ANAT 3601 or ANAT 3611 or equiv], [CEHD student or instr consent])

46753 001 LEC, 9:45-11:00 MW, Mechanical Engineering 221, In Person Term Based; Chad Osgood; 3 cr.

### 3126W Sport and Exercise Psychology

(A-F or Audit; Prereq: Kin major or instr consent(WI))

49632 002 DIS, 8:00- 8:50 F, Rapson Hall 13, In Person Term Based; ; 3 cr.  
57036 004 DIS, 10:10-11:00 F, Rapson Hall 13, In Person Term Based; ; 3 cr.  
57038 006 DIS, 12:20-13:10 F, Rapson Hall 13, In Person Term Based; ; 3 cr.  
55266 003 DIS, 9:05- 9:55 F, Rapson Hall 15, In Person Term Based; ; 3 cr.  
57037 005 DIS, 11:15-12:05 F, Rapson Hall 15, In Person Term Based; ; 3 cr.  
46689 001 LEC, 10:10-11:00 MW, Rapson Hall 45, In Person Term Based; Diane Wiese-Bjornstal; 3 cr.

### 3131W History and Philosophy of Sport

(A-F or Audit; Prereq: Kin major or instr consent(WI))

57040 004 DIS, 15:35-16:25 Th, Rapson Hall 13, In Person Term Based; ; 3 cr.  
49320 002 DIS, 15:35-16:25 T, Rapson Hall 13, In Person Term Based; ; 3 cr.  
57039 003 DIS, 16:40-17:30 T, Rapson Hall 13, In Person Term Based; ; 3 cr.  
57041 005 DIS, 16:40-17:30 Th, Rapson Hall 15, In Person Term Based; ; 3 cr.  
57042 006 DIS, 17:45-18:35 Th, Civil Engineering Bldg 213, In Person Term Based; ; 3 cr.  
46666 001 LEC, 14:30-15:20 TTh, Mechanical Engineering 18, In Person Term Based; Maureen Weiss; 3 cr.

### 3132 Introduction to Motor Development

Across the Lifespan

(A-F only; Prereq: Kin major or instr consent)

55952 002 LEC, 17:00-18:15 MW, Cooke Hall 214, In Person Term Based; Richard Rodgerson; 3 cr.

50887 001 LEC, 11:15-12:30 TTh, Akerman Hall 225, In Person Term Based; Richard Rodgerson; 3 cr.

### 3135 Introduction to Motor Learning and Control

(A-F or Audit; )

46663 001 LEC, 9:05-11:00 F, Rapson Hall 54, In Person Term Based; Jessica Holst-Wolf; 3 cr.  
57046 010 LEC, 9:05-11:00 W, Rapson Hall 43, In Person Term Based; Michael Wade; 3 cr.  
57043 002 LAB, 8:00- 8:50 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.  
57044 003 LAB, 9:05- 9:55 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.  
57045 004 LAB, 10:10-11:00 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.  
57047 011 LAB, 11:15-12:05 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.  
57048 012 LAB, 12:20-13:10 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.  
57049 013 LAB, 13:25-14:15 M, Room TBA, In Person Term Based; Frank Koslucher; 3 cr.

### 3136 Mental Skills Training for Sport

(A-F only; )

52409 001 LEC, 8:15- 9:30 TTh, Cooke Hall 214, In Person Term Based; ; 3 cr.

### 3143 Organization and Administration of Sport

(A-F or Audit; Prereq: Kin major or instr consent)

46667 001 LEC, 8:15- 9:30 MW, Cooke Hall 206, In Person Term Based; ; 3 cr.

### 3168 Soccer Coaching Theory and Skill Development

(A-F only; Prereq: [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes)

46875 001 LEC, 9:05-10:45 TTh, Hubert H. Humphrey Center 35, In Person Term Based; ; 2 cr.

### 3169 Volleyball Coaching Theory and Skill Development

(A-F only; Prereq: [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes)

46845 001 LEC, 8:15- 9:55 MW, Akerman Hall 327, In Person Term Based; Carol Nielsen; 2 cr.

### 3173 Football Coaching Theory and Skill Development

(A-F only; Prereq: [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes)

50565 001 LEC, 19:05-20:45 T, Cooke Hall 206, In Person Term Based; Gregory Peterson; 2 cr.

### 3178 Tennis Coaching Theory and Skill Development

(A-F only; Prereq: [Enrolled in coaching program or KIN major or instr consent], skills sufficient for participating in drills/game/match/contest for demonstration/teaching purposes)

54383 001 LEC, 10:10-11:50 MW, Akerman Hall 211, In Person Term Based; John Sanny; 2 cr.

### 3327 Teaching Physical Education in the Elementary School

(A-F only; )

46635 001 LEC, 13:25-15:20 T, University Rec Center 320, In Person Term Based; ; 2 cr.  
48675 002 LEC, 13:25-15:20 W, University Rec Center 320, In Person Term Based; Carol Nielsen; 2 cr.

### 3385 Human Physiology

(A-F or Audit; Prereq: [[KIN 3027 or ANAT 3001 or ANAT 3601 or ANAT 3611], KIN major] or instr consent)

52408 001 LEC, 11:15-12:30 TTh, Amundson Hall B75, In Person Term Based; George Biltz; 4 cr.  
57634 004 LAB, 15:35-16:25 T, Mariucci Arena 141, In Person Term Based; George Biltz; 4 cr.  
53483 002 LAB, 13:25-14:15 T, Mariucci Arena 141, In Person Term Based; George Biltz; 4 cr.  
53484 003 LAB, 14:30-15:20 T, Mariucci Arena 141, In Person Term Based; George Biltz; 4 cr.

### 3696 Supervised Practical Experience

(S-N only; Prereq: instr consent)

46789 002 FWK, In Person Term Based; Matt Vollum; 1-10 cr.

57058 006 FWK, In Person Term Based; Sue Stirling; 1-10 cr.  
46788 001 FWK, In Person Term Based; Sue Stirling; 1-10 cr.  
55790 009 FWK, In Person Term Based; Tiffany Richardson; 1-10 cr.

### 3982 Research Methods in Kinesiology

(A-F only; Prereq: Kin major or instr consent)

59279 003 LEC, 9:45-11:00 TTh, Cooke Hall 206, In Person Term Based; ; 3 cr.  
59278 002 LEC, 16:00-18:30 T, Cooke Hall 214, In Person Term Based; June Lee; 3 cr.  
59277 001 LEC, 14:30-15:45 MW, Cooke Hall 206, In Person Term Based; Carol Nielsen; 3 cr.

### 3993 Directed Study in Kinesiology

(A-F only; Prereq: instr consent)

46907 011 IND, In Person Term Based; Arthur Leon; 1-10 cr.  
54325 029 IND, In Person Term Based; Beth Lewis; 1-10 cr.  
60724 001 IND, In Person Term Based; Daheia Barr-Anderson; 1-10 cr.  
46910 025 IND, In Person Term Based; Diane Wiese-Bjornstal; 1-10 cr.  
49793 004 IND, In Person Term Based; Donald Dengel; 1-10 cr.  
58102 017 IND, In Person Term Based; Eric Snyder; 1-10 cr.  
53991 003 IND, In Person Term Based; George Biltz; 1-10 cr.  
55824 035 IND, In Person Term Based; Jo Ann Buysse; 1-10 cr.  
53953 008 IND, In Person Term Based; Juergen Konczak; 1-10 cr.  
57593 006 IND, In Person Term Based; Li Li Ji; 1-10 cr.  
51200 002 IND, In Person Term Based; Lisa Kihl; 1-10 cr.  
46906 007 IND, In Person Term Based; Mary Jo Kane; 1-10 cr.  
57056 020 IND, In Person Term Based; Matt Vollum; 1-10 cr.  
54318 023 IND, In Person Term Based; Maureen Weiss; 1-10 cr.  
46908 021 IND, In Person Term Based; Michael Wade; 1-10 cr.  
53233 027 IND, In Person Term Based; Nicole LaVoi; 1-10 cr.  
55823 031 IND, In Person Term Based; Rayla Allison; 1-10 cr.  
50234 009 IND, In Person Term Based; Richard Rodgerson; 1-10 cr.  
51201 012 IND, In Person Term Based; Stephen Ross; 1-10 cr.  
46909 019 IND, In Person Term Based; Thomas Stoffregen; 1-10 cr.  
58103 050 IND, In Person Term Based; Tiffany Richardson; 1-10 cr.  
60725 047 IND, In Person Term Based; Yuhei Inoue; 1-10 cr.  
57057 045 IND, In Person Term Based; Zan Gao; 1-10 cr.

### 3993H Directed Study in Kinesiology:

Honors

(A-F only; Prereq: Kin honors, instr consent)

57293 011 IND, In Person Term Based; Arthur Leon; 1-10 cr.  
55997 029 IND, In Person Term Based; Beth Lewis; 1-10 cr.  
54434 025 IND, In Person Term Based; Diane Wiese-Bjornstal; 1-10 cr.  
52703 004 IND, In Person Term Based; Donald Dengel; 1-10 cr.  
57288 003 IND, In Person Term Based; George Biltz; 1-10 cr.  
57291 008 IND, In Person Term Based; Juergen Konczak; 1-10 cr.  
58110 006 IND, In Person Term Based; Li Li Ji; 1-10 cr.  
57290 007 IND, In Person Term Based; Mary Jo Kane; 1-10 cr.  
57294 023 IND, In Person Term Based; Maureen Weiss; 1-10 cr.  
52704 021 IND, In Person Term Based; Michael Wade; 1-10 cr.  
55858 027 IND, In Person Term Based; Nicole LaVoi; 1-10 cr.  
57292 009 IND, In Person Term Based; Richard Rodgerson; 1-10 cr.  
59507 012 IND, In Person Term Based; Stephen Ross; 1-10 cr.  
52644 019 IND, In Person Term Based; Thomas Stoffregen; 1-10 cr.

### 4001H Honors Seminar in Kinesiology

(A-F or Audit; Prereq: Kinesiology honors)

52721 001 LEC, In Person Term Based; ; 3 cr.

### 4133 Perceptual-Motor Control and Learning

(A-F or Audit; Prereq: [3112, 3132, 3135, KIN major] or instr consent)

58553 001 LEC, 9:45-11:00 TTh, Akerman Hall 215, In Person Term Based; Thomas Stoffregen; 3 cr.

### 4134 The Aging Motor System

(A-F only; Prereq: [3132, 3135, Kin major] or instr consent)

61263 001 LEC, 13:00-14:15 MW, Akerman Hall 211, In Person Term Based; Michael Wade; 3 cr.

#### 4136 Embodied Cognition

(A-F only; Prereq: 3132 or 3135 or instr consent)

55500 001 LEC, 13:00-14:15 TTh, Akerman Hall 215, In Person Term Based; Thomas Stoffregen; 3 cr.

#### 4385 Exercise Physiology

(A-F only; Prereq: [[3385 or PHSL 3051, or equiv], kin major] or instr consent)

48677 004 LAB, 8:00- 9:50 F, Mariucci Arena 141, In Person Term Based; ; 4 cr.

48676 002 LAB, 8:00- 9:50 W, Mariucci Arena 141, In Person Term Based; ; 4 cr.

48755 005 LAB, 10:00-11:50 F, Mariucci Arena 141, In Person Term Based; ; 4 cr.

46791 001 LEC, 13:25-14:15 MW, Keller Hall 3-230, In Person Term Based; Donald Dengel; 4 cr.

57050 006 LAB, 8:00- 9:50 M, Mariucci Arena 141, In Person Term Based; Donald Dengel; 4 cr.

60109 007 LAB, 10:00-11:50 M, Mariucci Arena 141, In Person Term Based; Donald Dengel; 4 cr.

48678 003 LAB, 10:00-11:50 W, Mariucci Arena 141, In Person Term Based; Donald Dengel; 4 cr.

#### 4441 Movement Neuroscience

(A-F only; Prereq: 3135 or instr consent)

60732 001 LEC, 9:05-11:35 F, Akerman Hall 211, In Person Term Based; I-Ling Yeh; 3 cr.

#### 4520 Current Topics in Kinesiology

(Student Option; Prereq: Upper div in KIN or REC or SMGT or coaching or instr consent)

57425 504 LEC, Study Abroad; Donald Dengel; 2-4 cr.

58011 001 LEC, 18:45-20:15 W, Akerman Hall 313, In Person Term Based; ; 2-4 cr.

#### 4641 Training Theory & Analytics I for Sport Performance

(A-F only; Prereq: [KIN 4385 or exercise physiology course], [upper level undergrad or M.Ed. or grad student])

55738 001 LEC, 8:15- 9:30 MW, Akerman Hall 215, In Person Term Based; Christopher Lundstrom; 3 cr.

#### 4697 Student Coaching and Seminar

(S-N or Audit; Prereq: [Coaching minor or certificate] student, GPA of at least 2.50)

54412 001 FWK, 18:30-20:00 W, Cooke Hall 206, In Person Term Based; Christopher Lundstrom; 3 cr.

#### 4741 Training Theory & Analytics 2 for Sport Performance

(A-F only; Prereq: KIN 4641, [upper level undergrad or M.Ed. or grad student])

54403 001 LEC, 16:00-18:30 W, Civil Engineering Bldg 212, In Person Term Based; Zachary Rourke; 3 cr.

#### 4981 Understanding Kinesiology Research

(A-F only; Prereq: Intro statistics recommended)

54454 001 LEC, In Person Term Based; 3 cr.

#### 5103 Developmental/Adapted Physical Education

(A-F or Audit; )

55265 001 LEC, 16:40-19:10 T, Folwell Hall 28, In Person Term Based; Kathleen Healy; 3 cr.

#### 5111 Sports Facilities

(A-F or Audit; Prereq: Kin or Rec grad student or MEd student)

48756 001 LEC, In Person Term Based; 3 cr.

#### 5122 Applied Exercise Physiology

(A-F or Audit; Prereq: 4385 or equiv or instr consent)

53166 001 LEC, 16:40-19:10 T, Mariucci Arena 141, In Person Term Based; Eric Snyder; 3 cr.

#### 5123 Motivational Interventions in Physical Activity

(A-F only; Prereq: 3126W or grad student)

55489 001 LEC, 11:15-12:30 T, Cooke Hall 206, Partially Online; Beth Lewis; 3 cr.

#### 5126 Social Psychology of Sport & Physical Activity

(A-F only; Prereq: 3126W or equiv or grad student or instr consent)

57287 001 LEC, 9:45-11:00 TTh, Akerman Hall 211, In Person Term Based; Maureen Weiss; 3 cr.

#### 5136 Psychology of Coaching

(Student Option; )

51034 001 LEC, 16:00-18:30 Th, Akerman Hall 211, In Person Term Based; Nicole LaVoi; 3 cr.

#### 5142 Applied Nutrition for Sport Performance

(A-F only; )

53229 001 LEC, 16:40-19:10 Th, Mariucci Arena 141, In Person Term Based; ; 3 cr.

#### 5152 Curriculum Development in Physical Education

(A-F or Audit; Prereq: initial licensure/MEd phys ed student)

57696 001 LEC, 18:00-20:00 W, Akerman Hall 317, In Person Term Based; Matt Vollum; 2 cr.

#### 5196 Practicum: Developmental/Adapted Physical Education

(S-N only; Prereq: [5103 or 5104], instr consent)

46664 001 LEC, In Person Term Based; Jessica Braun; 1-4 cr.

#### 5203 Health Media, Consumerism, and Communication

(A-F only; )

57697 001 IND, Completely Online; Matt Vollum; 2 cr.

#### 5235 Advanced Biomechanics II: Kinetics

(A-F or Audit; Prereq: [3112 or equiv], PMed 5135, undergrad college physics, intro calculus)

55267 001 LEC, 13:00-14:30 TTh, Civil Engineering Bldg 213, In Person Term Based; Meets With: 001 RSC 5235; ; 3 cr.

#### 5371 Sport and Society

(A-F or Audit; Prereq: [3126W, grad student] or instr consent)

50891 001 LEC, 17:00-19:30 W, Akerman Hall 215, In Person Term Based; Mary Jo Kane; 3 cr.

#### 5375 Competitive Sport for Children and Youth

(Student Option; )

50081 001 LEC, 13:00-14:15 TTh, Akerman Hall 211, In Person Term Based; Diane Wiese-Bjornstal; 3 cr.

#### 5385 Exercise for Healthy Aging & Disease Prevention and Management

(A-F only; Prereq: Physiology or biology undergrad)

46487 001 LEC, 14:30-15:45 TTh, Akerman Hall 211, In Person Term Based; Arthur Leon; 3 cr.

#### 5461 Issues in the Sport Industry

(A-F only; Prereq: postbac or grad student or instr consent)

52712 001 LEC, 17:30-20:00 W, Akerman Hall 225, In Person Term Based; Carol Nielsen; 3 cr.

#### 5485 Advanced Electrocardiogram Interpretation

(A-F only; Prereq: [3385, 4385] or instr consent)

56483 001 LEC, 16:00-18:30 M, Mariucci Arena 141, In Person Term Based; Brittney Nelson; 3 cr.

#### 5601 Sport Management Ethics and Policy

(A-F or Audit; Prereq: MEd or grad student or instr consent)

51190 001 LEC, 16:00-18:30 T, Akerman Hall 227, In Person Term Based; Lisa Kihl; 3 cr.

#### 5631 Programming and Promotion in Sport

(A-F or Audit; Prereq: Kin or Rec grad student or instr consent)

60993 001 LEC, 11:15-12:30 TTh, Akerman Hall 227, In Person Term Based; Stephen Ross; 3 cr.

#### 5641 Scientific Theory and Application of Training and Conditioning in Sport

(A-F only; Prereq: 4385 or SPST 3641 or SPST 4641 or exercise physiology course or instr consent)

54252 001 LEC, 9:05-11:35 F, Akerman Hall 227, In Person Term Based; Christopher Lundstrom; 3 cr.

#### 5696 Practicum in Kinesiology

(S-N only; Prereq: [Kin MEd or grad student], instr consent)

49770 011 FWK, In Person Term Based; Arthur Leon; 1-6 cr.

55800 015 FWK, In Person Term Based; Jo Ann Buysse; 1-6 cr.

49771 002 FWK, In Person Term Based; Lisa Kihl; 1-6 cr.

55630 021 FWK, In Person Term Based; Michael Wade; 1-6 cr.

53968 001 FWK, In Person Term Based; Rayla Allison; 1-6 cr.

55662 012 FWK, In Person Term Based; Stephen Ross; 1-6 cr.

#### 5720 Special Topics in Kinesiology

(Student Option; Prereq: Kin upper div undergrad or grad student or instr consent)

53073 001 LEC, 16:00-18:30 M, Akerman Hall 211, In Person Term Based; Zan Gao; 2-4 cr.

#### 5725 Organization and Management of Physical Education and Sport

(A-F or Audit; Prereq: Grad/initial licensure or instr consent)

56441 001 LEC, 16:00-18:30 M, Bruininks Hall 512B, In Person Term Based; Yuhei Inoue; 3 cr.

#### 5801 Legal Aspects of Sport and Recreation

(A-F or Audit; Prereq: Kin or rec major)

46711 001 LEC, 18:30-22:00 T, Akerman Hall 227, In Person Term Based; Andrea Smith; 4 cr.

#### 5804 National Collegiate Athletic Association (NCAA) Compliance

(A-F only; Prereq: [Upper div undergrad or grad student] in KIN, instr consent)

55934 001 LEC, 17:00-18:45 M, Akerman Hall 327, In Person Term Based; JT Bruett; 2 cr.

#### 5941 Clinical Movement Neuroscience

(A-F only; Prereq: [3027 or ANAT 3001 or ANAT 3601 or ANAT 3611 or equiv], [PHSL 3051 or equiv], [4441])

57051 001 LEC, 15:00-17:30 T, Civil Engineering Bldg 212, In Person Term Based; Juergen Konczak; 3 cr.

#### 5992 Readings in Kinesiology

(A-F only; Prereq: [KIN upper div undergrad or MEd or grad student], instr consent)

46935 011 IND, In Person Term Based; Arthur Leon; 1-9 cr.

54324 029 IND, In Person Term Based; Beth Lewis; 1-9 cr.

60726 001 IND, In Person Term Based; Daheia Barr-Anderson; 1-9 cr.

46938 025 IND, In Person Term Based; Diane Wiese-Bjornstal; 1-9 cr.

49794 004 IND, In Person Term Based; Donald Dengel; 1-9 cr.

58104 017 IND, In Person Term Based; Eric Snyder; 1-9 cr.

57053 035 IND, In Person Term Based; Jo Ann Buysse; 1-9 cr.

53954 008 IND, In Person Term Based; Juergen Konczak; 1-9 cr.

57594 006 IND, In Person Term Based; Li Li Ji; 1-9 cr.

51202 002 IND, In Person Term Based; Lisa Kihl; 1-9 cr.

46934 007 IND, In Person Term Based; Mary Jo Kane; 1-9 cr.

57054 020 IND, In Person Term Based; Matt Vollum; 1-9 cr.

54319 023 IND, In Person Term Based; Maureen Weiss; 1-9 cr.

46936 021 IND, In Person Term Based; Michael Wade; 1-9 cr.

53234 027 IND, In Person Term Based; Nicole LaVoi; 1-9 cr.

55801 031 IND, In Person Term Based; Rayla Allison; 1-9 cr.

52869 009 IND, In Person Term Based; Richard Rodgeron; 1-9 cr.

51203 012 IND, In Person Term Based; Stephen Ross; 1-9 cr.

46937 019 IND, In Person Term Based; Thomas Stoffregen; 1-9 cr.

60727 047 IND, In Person Term Based; Yuhei Inoue; 1-9 cr.

58105 045 IND, In Person Term Based; Zan Gao; 1-9 cr.

#### 5995 Research Problems in Applied Kinesiology

(A-F only; Prereq: [Kin upper div undergrad or MEd or grad student], 15 cr of major coursework [including 4981 or 5981], instr consent)

46925 011 IND, In Person Term Based; Arthur Leon; 1-6 cr.

54323 029 IND, In Person Term Based; Beth Lewis; 1-6 cr.

60728 001 IND, In Person Term Based; Daheia Barr-Anderson; 1-6 cr.

46928 025 IND, In Person Term Based; Diane Wiese-Bjornstal; 1-6 cr.

49795 004 IND, In Person Term Based; Donald Dengel; 1-6 cr.

58106 017 IND, In Person Term Based; Eric Snyder; 1-6 cr.  
 55803 035 IND, In Person Term Based; Jo Ann Buysse; 1-6 cr.  
 53955 008 IND, In Person Term Based; Juergen Konczak; 1-6 cr.  
 57595 006 IND, In Person Term Based; Li Li Ji; 1-6 cr.  
 51204 002 IND, In Person Term Based; Lisa Kihl; 1-6 cr.  
 46924 007 IND, In Person Term Based; Mary Jo Kane; 1-6 cr.  
 57055 020 IND, In Person Term Based; Matt Vollum; 1-6 cr.  
 54320 023 IND, In Person Term Based; Maureen Weiss; 1-6 cr.  
 46926 021 IND, In Person Term Based; Michael Wade; 1-6 cr.  
 53235 027 IND, In Person Term Based; Nicole LaVoi; 1-6 cr.  
 55802 031 IND, In Person Term Based; Rayla Allison; 1-6 cr.  
 51205 012 IND, In Person Term Based; Stephen Ross; 1-6 cr.  
 55192 016 IND, In Person Term Based; Thomas Smith; 1-6 cr.  
 46927 019 IND, In Person Term Based; Thomas Stoffregen; 1-6 cr.  
 60729 047 IND, In Person Term Based; Yuhei Inoue; 1-6 cr.  
 58107 045 IND, In Person Term Based; Zan Gao; 1-6 cr.

**6201 Clinical Experience I: Health****Education****(A-F only; )**

58170 001 FWK, 18:35-20:00 M, Akerman Hall 317, In Person Term Based; Shirleen Sylvester; 1-4 cr.

**6202 Clinical Experience II: Health****Education****(A-F only; )**

57698 001 FWK, 18:35-20:00 M, Akerman Hall 211, In Person Term Based; Shirleen Sylvester; 2-6 cr.

**6597 Clinical Experience II: Physical****Education****(A-F only; Prereq: 6596, initial licensure/MEd phys ed student or instr consent)**

46831 001 FWK, 16:40-18:20 M, Akerman Hall 317, In Person Term Based; Matt Vollum; 1-4 cr.

**6598 Clinical Experience III: Physical****Education****(A-F only; Prereq: [6597, init licensure/MEd phys ed student] or instr consent)**

46832 001 FWK, 16:40-18:20 M, Civil Engineering Bldg 213, In Person Term Based; Matt Vollum; 2-6 cr.

**8122 Seminar: Exercise Physiology****(A-F only; Prereq: 5122 or equiv or instr consent)**

59337 001 LEC, 16:15-18:00 W, Civil Engineering Bldg 213, In Person Term Based; George Biltz; 2 cr.

**8126 Sports Medicine Psychology****(A-F only; Prereq: Grad student or instr consent)**

57371 001 LEC, 11:30-14:00 W, Room TBA, In Person Term Based; Diane Wiese-Bjornstal; 3 cr.

**8136 Developmental Sport and Exercise****Psychology****(A-F only; Prereq: Grad student or instr consent)**

56533 001 LEC, 9:45-11:00 TTh, Civil Engineering Bldg 214, In Person Term Based; Maureen Weiss; 3 cr.

**8333 FTE: Master's****(No Grade Associated; Prereq: Master's student, adviser and DGS consent)**

49132 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral****(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)**

49229 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits****(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; Dept consent required; No grade associated; 4 completions allowed; up to 24 combined cr.)**

49333 001 IND, In Person Term Based; 1-6 cr.

**8696 Internship: Applied Sport Psychology****(S-N or Audit; Prereq: 5126, 8126, Kin PhD student, instr consent)**

50890 001 FWK, In Person Term Based; Diane Wiese-Bjornstal; 3-6 cr.

**8777 Thesis Credits: Master's****(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))**

49419 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral****(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)**

49538 001 IND, In Person Term Based; 1-24 cr.

**8980 Graduate Research Seminar in****Kinesiology****(S-N only; Prereq: KIN M.S. or Ph.D. or SMTG M.A. or instr consent)**

46939 001 LEC, 14:30-16:25 M, Rapson Hall 15, In Person Term Based; George Biltz; 1 cr.

**8995 Research Problems in Kinesiology****(S-N only; Prereq: Kin Ph.D. student or SMTG grad student or instr consent)**

46930 011 IND, In Person Term Based; Arthur Leon; 1-12 cr.

54322 029 IND, In Person Term Based; Beth Lewis; 1-12 cr.

60730 001 IND, In Person Term Based; Daheia Barr-Anderson; 1-12 cr.

46933 025 IND, In Person Term Based; Diane Wiese-Bjornstal; 1-12 cr.

49796 004 IND, In Person Term Based; Donald Dengel; 1-12 cr.

58108 017 IND, In Person Term Based; Eric Snyder; 1-12 cr.

55128 030 IND, In Person Term Based; Jo Ann Buysse; 1-12 cr.

53956 008 IND, In Person Term Based; Juergen Konczak; 1-12 cr.

58111 006 IND, In Person Term Based; Li Li Ji; 1-12 cr.

51206 002 IND, In Person Term Based; Lisa Kihl; 1-12 cr.

46929 007 IND, In Person Term Based; Mary Jo Kane; 1-12 cr.

54321 023 IND, In Person Term Based; Maureen Weiss; 1-12 cr.

46931 021 IND, In Person Term Based; Michael Wade; 1-12 cr.

53822 027 IND, In Person Term Based; Nicole LaVoi; 1-12 cr.

51207 012 IND, In Person Term Based; Stephen Ross; 1-12 cr.

46932 019 IND, In Person Term Based; Thomas Stoffregen; 1-12 cr.

60731 047 IND, In Person Term Based; Yuhei Inoue; 1-12 cr.

58109 045 IND, In Person Term Based; Zan Gao; 1-12 cr.

**Korean (KOR)****1012 Beginning Korean II****(Student Option; Prereq: 1011)**

52586 050 LEC, 18:15-20:35 MW, Folwell Hall 13, In Person Term Based; Meets With: 050 KOR 4002; Hangtae Cho; 5 cr.

50066 001 LEC, 9:05-9:55 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 KOR 4002; Hangtae Cho; 5 cr.

57940 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 KOR 4002; Hangtae Cho; 5 cr.

60111 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 004 KOR 4002; Hangtae Cho; 5 cr.

52585 002 LEC, 10:10-11:00 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 002 KOR 4002; Hangtae Cho; 5 cr.

**3022 Intermediate Korean II****(Student Option; Prereq: 3021)**

58512 002 LEC, 15:35-16:25 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 KOR 4004; Hangtae Cho; 5 cr.

57945 050 LEC, 18:15-20:35 TTh, Folwell Hall 32, In Person Term Based; Meets With: 050 KOR 4004; Hangtae Cho; 5 cr.

51140 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 KOR 4004; Hangtae Cho; 5 cr.

**3032 Third Year Korean II****(Student Option; Prereq: 3031)**

51240 001 LEC, 15:35-17:30 MW, Vincent Hall 364, In Person Term Based; Meets With: 001 KOR 4006; Hangtae Cho; 4 cr.

**3290 Korean Language Teaching Tutorial****(S-N only; Prereq: Grade of A in 3032)**

55860 001 FWK, In Person Term Based; Hangtae Cho; 1 cr.

**4002 Beginning Korean II****(Student Option; Prereq: 4001, grad student)**

52588 050 LEC, 18:15-20:35 MW, Folwell Hall 13, In Person Term Based; Meets With: 050 KOR 1012; Hangtae Cho; 3 cr.

51250 001 LEC, 9:05-9:55 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 KOR 1012; Hangtae Cho; 3 cr.

57941 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 KOR 1012; Hangtae Cho; 3 cr.

60112 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 004 KOR 1012; Hangtae Cho; 3 cr.

52587 002 LEC, 10:10-11:00 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 002 KOR 1012; Hangtae Cho; 3 cr.

**4004 Intermediate Korean II****(Student Option; Prereq: 4003, grad student)**

58513 002 LEC, 15:35-16:25 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 KOR 3022; Hangtae Cho; 3 cr.

57984 050 LEC, 18:15-20:35 TTh, Folwell Hall 32, In Person Term Based; Meets With: 050 KOR 3022; Hangtae Cho; 3 cr.

52326 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 KOR 3022; Hangtae Cho; 3 cr.

**4006 Third Year Korean II****(Student Option; Prereq: 4005, grad student)**

53463 001 LEC, 15:35-17:30 MW, Vincent Hall 364, In Person Term Based; Meets With: 001 KOR 3032; Hangtae Cho; 3 cr.

**4042 Advanced Readings in Modern Korean II****(Student Option; Prereq: 4041 or equiv or instr consent)**

55372 001 DIS, 10:10-12:05 TTh, Peik Hall 315, In Person Term Based; Hangtae Cho; 4 cr.

**5140 Readings in Sino-Korean Texts****(Student Option; Prereq: 3032 or equiv or instr consent)**

68484 001 DIS, 14:30-15:45 MW, Folwell Hall 107, In Person Term Based; Hangtae Cho; 3 cr.

**5212 Introductory Classical Chinese II****(Student Option; Prereq: 5211 and two years of an East Asian language (Chinese, Japanese, Korean) or equivalent or instr consent)**

60126 001 DIS, 14:30-15:20 MWF, Folwell Hall 118, In Person Term Based; Paul Rouzer; 3 cr.

**5993 Directed Studies****(Student Option No Audit; Prereq: instr consent, dept consent, college consent)**

59567 001 IND, In Person Term Based; 1-5 cr.

**Laboratory Medicine and Path (LAMP)****4177 Nature of Disease: Pathology for Allied Health Students****(Student Option; Prereq: [One anatomy course, one physiology course, registered in allied health program] or instr consent)**

48245 001 LEC, In Person Term Based; 3 cr.

51132 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 3 cr.

**6304 Gastrointestinal Pathology****(P-N or Audit; Prereq: MS 2 standing)**

54435 001 LAB, In Person Term Based; 0.5 cr.

**7113 Surgical Pathology- Fairview****University Medical Center****(H-N or Audit; Prereq: Registered 3rd and 4th year medical students)**

49984 001 ROT, In Person Term Based; 2-6 cr.

**7114 Surgical Pathology-Hennepin County****Medical Center****(H-N or Audit; Prereq: Registered 3rd and 4th year medical students.)**

50008 001 ROT, In Person Term Based; 3-6 cr.

**7115 Surgical Pathology-Veterans Affairs****Medical Center****(H-N or Audit; Prereq: Registered 3rd and 4th year medical students.)**

55912 001 ROT, In Person Term Based; 6 cr.

**7119 Forensic Pathology**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students)  
49976 001 ROT, In Person Term Based; 3-6 cr.

**7141 Problems in Experimental Pathology**

(H-N or Audit; Prereq: [3rd or 4th] yr medical student; before beginning project, contact Mary Ramey, D-142 Mayo, 612-625-5421)  
49975 001 ROT, In Person Term Based; 1-15 cr.

**7145 Neuropathology: Fairview University Medical Center**

(H-N or Audit; Prereq: Registered 3rd or 4th yr medical student)  
53368 001 ROT, In Person Term Based; 3-6 cr.

**7150 Anatomic Pathology**

(H-N or Audit; Prereq: Registered 3rd and 4th yr medical students)  
49981 001 ROT, In Person Term Based; 2-6 cr.

**7152 Anatomic Pathology in a Hospital**

**Setting-Veterans Affairs Medical Center**  
(H-N or Audit; Prereq: Registered [3rd or 4th yr medical student])  
55913 001 ROT, In Person Term Based; 3-6 cr.

**7153 Anatomic Pathology in a Hospital**

**Setting-Regions Medical Center**  
(H-N or Audit; Prereq: Registered 3rd and 4th year medical students)  
52777 001 ROT, In Person Term Based; 3-6 cr.

**7154 Anatomic Pathology in a Hospital**

**Setting-Abbott Northwestern Hospital**  
(H-N or Audit; Prereq: Registered 3rd and 4th year medical students considering the practice of pathology or laboratory medicine as a career. Noon meal and parking provided. Contact course director 6 weeks prior to starting.)  
55914 001 LEC, In Person Term Based; 1-15 cr.

**7158 Cardiac Pathology**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students)  
50009 001 ROT, In Person Term Based; 3-6 cr.

**7181 Hematopathology**

(H-N or Audit; Prereq: Registered 3rd and 4th yr medical students, prior approval of the course directors)  
53923 001 ROT, In Person Term Based; 3-6 cr.

**7184 Introduction to Transfusion Therapy**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical student)  
52778 001 ROT, In Person Term Based; 3-6 cr.

**7186 Laboratory Medicine in a Community Hospital**

(H-N or Audit; Prereq: Only 4th year students should register for this elective. SPECIAL INSTRUCTIONS: Students must contact Dr. Apple at least one month prior to beginning elective.)  
52813 001 ROT, In Person Term Based; 3-6 cr.

**7187 Clinical Laboratory in Medical Practice**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students who have completed one medicine or one RPAP rotation; students may audit with permission of the course director)  
55915 001 LEC, In Person Term Based; 4-6 cr.

**7188 Pathology Externship: Clinical and Surgical-Methodist Hospital**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students considering the practice of pathology or laboratory medicine as a career. Noon meals provided. Contact Dr. Manoles one month prior to start.)  
50300 001 ROT, In Person Term Based; 3-6 cr.

**7193 Pathology and Laboratory Medicine Externship: Central Mesabi Medical**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students. Meals and housing provided. Contact Dr. Uncini one month prior to starting elective (to make arrangements).)  
50010 001 ROT, In Person Term Based; 3-6 cr.

**7195 Medical Informatics**

(H-N or Audit; Prereq: Registered 3rd and 4th year medical students with computer experience for word processing, spreadsheet calculations, bibliographic searching, etc. Contact Dr. Speedie one month prior to starting to arrange project, instr consent)  
50011 001 ROT, In Person Term Based; 3-6 cr.

**7400 Pathology-Duluth**

(H-N or Audit; Prereq: Registered 3rd or 4th yr medical student)  
52779 001 ROT, In Person Term Based; 2-6 cr.

**7910 Laboratory Medicine and Pathology Medical Residency**

(No Grade Associated; )  
56678 001 FWK, In Person Term Based; 6 cr.

**7930 Laboratory Medicine and Pathology Medical Fellowship**

(No Grade Associated; )  
56676 001 FWK, In Person Term Based; 6 cr.

**Land and Atmospheric Science (LAAS)****5051 Thesis Proposal Writing for Land & Atmospheric Science**

(A-F or Audit; )  
59469 001 DIS, In Person Term Based; Tracy Twine; 2 cr.

**5480 Special Topics in Land and**

**Atmospheric Science**  
(Student Option; Prereq: grad student or instr consent)  
55809 001 LEC, In Person Term Based; Deborah Allan; 1-4 cr.  
55732 002 LEC, 10:15-11:30 TTh, Soils S415, In Person Term Based; Dylan Millet; 1-4 cr.

**5515 Soil Formation: Earth Surface**

**Processes and Biogeochemistry**  
(A-F or Audit; Prereq: 2125 or instr consent)  
52345 001 LEC, In Person Term Based; Kyungsoo Yoo; 3 cr.  
52346 002 LAB, In Person Term Based; Kyungsoo Yoo; 3 cr.

**8128 Land and Atmospheric Science**

**Seminar**  
(S-N or Audit; )  
47850 001 LEC, 15:00-15:50 W, Borlaug Hall 375, In Person Term Based; Kari Jarcho; 1.5 cr.

**8195 Research Problems in Soils**

(Student Option; Prereq: [Grad major in soil sci or related field], instr consent)  
48142 001 IND, In Person Term Based; Ed Nater; 1-5 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49166 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49257 001 IND, In Person Term Based; 1 cr.

**8550 Teaching Experience**

(S-N or Audit; Prereq: Grad major in soil sci or related field, instr consent)  
48133 001 FWK, In Person Term Based; Deborah Allan; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49361 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49466 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49562 001 IND, In Person Term Based; 1-24 cr.

**Landscape Architecture (LA)****1401 The Designed Environment**

(A-F or Audit; )  
52897 005 DIS, 13:00-14:15 F, Room TBA, In Person Term Based; ; 3 cr.  
52893 001 LEC, 13:00-14:15 MW, Rapson Hall 54, In Person Term Based; Bradley Agee; 3 cr.  
52896 004 DIS, 13:00-14:15 F, Room TBA, In Person Term Based; Bradley Agee; 3 cr.  
52894 002 DIS, 13:00-14:15 F, Mechanical Engineering 221, In Person Term Based; Bradley Agee; 3 cr.  
52895 003 DIS, 13:00-14:15 F, Rapson Hall 58, In Person Term Based; Bradley Agee; 3 cr.

**1601 Design and Equity**

(A-F or Audit; AH,DSJ)  
59580 001 LEC, 9:05-12:05 F, Rapson Hall 56, In Person Term Based; Meets With: 001 LA 3601; Kristine Miller; 3 cr.

**2302 Computer-Aided Representation for Environmental Design**

(Student Option; Prereq: 1301, 2301)  
55436 001 LAB, 17:00-20:00 W, Rapson Hall 33, In Person Term Based; Rachel Blaseg; 3 cr.

**3002 Informants of Creating Landscape Space**

(A-F or Audit; Prereq: 3001, Arch 3401, 3501)  
51611 001 LEC, 10:10-11:00 F, Rapson Hall 43, 8:00-9:55 F, Rapson Hall 43, In Person Term Based; Coal Dorius; 3 cr.

**3004 Regional Environmental Landscape Planning**

(Student Option; Prereq: prereq FR 3131 or Concurrent registration is required (or allowed) in FR 3131 or GEOG 3561 or Concurrent registration is required (or allowed) in GEOG 3561, or equivalent)  
55437 001 LEC, 16:00-17:15 TTh, Rapson Hall 45, In Person Term Based; David Pitt; 4 cr.  
56486 002 LAB, 17:30-20:30 T, Rapson Hall 33, In Person Term Based; David Pitt; 4 cr.

**3204 Holistic Landscape Ecology and Bioregional Practice**

(A-F or Audit; Prereq: [IEEB 3001 or ESPM 3108], sr BED major] or equiv)  
49775 001 LEC, 18:00-20:30 W, Rapson Hall 58, In Person Term Based; Laura Musacchio; 3 cr.

**3501 Environmental Design and Its Biological and Physical Context**

(A-F or Audit; ENV)  
47923 008 DIS, 8:00- 8:50 F, Rapson Hall 58, In Person Term Based; 3 cr.  
49059 005 DIS, 8:00- 8:50 W, Rapson Hall 58, In Person Term Based; 3 cr.  
48582 004 DIS, 8:00- 8:50 W, Mechanical Engineering 221, In Person Term Based; ; 3 cr.  
47922 006 DIS, 8:00- 8:50 Th, Room TBA, In Person Term Based; ; 3 cr.  
47924 007 DIS, 8:00- 8:50 Th, Room TBA, In Person Term Based; ; 3 cr.  
48581 003 DIS, 8:00- 8:50 W, Rapson Hall 43, In Person Term Based; ; 3 cr.  
47925 002 DIS, 8:00- 8:50 Th, Rapson Hall 58, In Person Term Based; ; 3 cr.  
49058 009 DIS, 9:05- 9:55 F, Rapson Hall 58, In Person Term Based; ; 3 cr.  
47921 001 LEC, 13:00-14:15 TTh, Rapson Hall 100, In Person Term Based; David Pitt; 3 cr.

**3514 Making the Mississippi**

(A-F or Audit; CIV)  
51313 001 LAB, 13:00-14:15 MW, Rapson Hall 43, In Person Term Based; Meets With: 001 LA 5514; Patrick Nunnally; 3 cr.

**3601 Design and Equity**

(A-F or Audit; AH,DSJ)  
59615 001 LEC, 9:05-12:05 F, Rapson Hall 56, In Person Term Based; Meets With: 001 LA 1601; Kristine Miller; 3 cr.

**4002 Implementation of Sustainable Landscape Design and Planning Practices**

(Student Option; )  
55516 001 LAB, 14:30-15:45 TTh, Mechanical Engineering 221, In Person Term Based; Maura Rockcastle; 3 cr.

**4096 Internship in Landscape Design and Planning**(S-N only; Prereq: 1301, 2301, 2302, 3001, 3002, 3003)  
55441 001 FWK, In Person Term Based; Bradley Agee; 1 cr.**4755 Infrastructure, Natural Systems, and Space of Inhabited Landscapes**(A-F or Audit; Prereq: Jr or srTS)  
51609 001 LEC, In Person Term Based; 3 cr.**5203 Ecological Dimensions of Space Making**(A-F or Audit; Prereq: LA major or instr consent; recommended for both BED and Grad students)  
48176 001 LAB, 14:30-17:30 MWF, Rapson Hall 259, In Person Term Based; John Koepke; 6 cr.**5204 Metropolitan Landscape Ecology**(A-F only; Prereq: BED accelerated status or LA grad student or instr consent)  
50082 001 LAB, 9:05-11:35 T, Rapson Hall 58, In Person Term Based; Laura Musacchio; 3 cr.**5351 AutoCAD I**(Student Option; Prereq: B.E.D. major or LA grad or instr consent; may not be taken for graduate credit)  
60783 001 LEC, In Person Term Based; 3 cr.**5352 AutoCAD II**(Student Option; Prereq: Arch 5351 or LA 5351, B.E.D. major or LA grad or instr consent; may not be taken for graduate credit)  
60784 001 LEC, In Person Term Based; 3 cr.**5374 Representation for Landscape Architectural Construction**(Student Option; )  
55521 001 LAB, 11:40-14:05 T, Rapson Hall 33, In Person Term Based; Vincent deBritto; 3 cr.**5377 Representation II**(A-F only; Prereq: Master of Landscape Architecture (MLA) or Accelerated Bachelor of Environmental Design)  
59581 001 LAB, 9:00-13:00 Th, Rapson Hall 33, In Person Term Based; Egle Vanagaite; 4 cr.**5400 Topics in Landscape Architecture**(Student Option; Prereq: B.E.D. accelerated status or LA grad or instr consent)  
50354 002 LEC, In Person Term Based; 1-3 cr.  
48356 003 LEC, In Person Term Based; 1-3 cr.  
48357 004 LEC, In Person Term Based; 1-3 cr.  
48358 005 LEC, In Person Term Based; 1-3 cr.  
48362 006 LEC, In Person Term Based; 1-3 cr.  
48359 007 LEC, In Person Term Based; 1-3 cr.  
48360 008 LEC, In Person Term Based; 1-3 cr.  
48361 009 LEC, In Person Term Based; 1-3 cr.  
51659 010 LEC, In Person Term Based; 1-3 cr.  
48355 001 LEC, In Person Term Based; 1-3 cr.**5401 Directed Studies in Emerging Areas of Landscape Architecture**(Student Option; Prereq: instr consent)  
49917 502 IND, Study Abroad; 1-3 cr.  
51645 517 IND, Study Abroad; 1-3 cr.  
48365 002 IND, In Person Term Based; 1-3 cr.  
48366 003 IND, In Person Term Based; 1-3 cr.  
48367 004 IND, In Person Term Based; 1-3 cr.  
48371 005 IND, In Person Term Based; 1-3 cr.  
48368 006 IND, In Person Term Based; 1-3 cr.  
48369 007 IND, In Person Term Based; 1-3 cr.  
48370 008 IND, In Person Term Based; 1-3 cr.  
51660 009 IND, In Person Term Based; 1-3 cr.  
48364 001 IND, In Person Term Based; 1-3 cr.  
51644 516 IND, Study Abroad; Cynthia Lapp; 1-3 cr.**5402 Directed Studies in Landscape Architecture History and Theory**(Student Option; Prereq: instr consent)  
51068 502 IND, Study Abroad; 1-6 cr.  
48407 002 IND, In Person Term Based; 1-6 cr.  
48408 003 IND, In Person Term Based; 1-6 cr.  
48409 004 IND, In Person Term Based; 1-6 cr.  
48410 006 IND, In Person Term Based; 1-6 cr.  
48411 007 IND, In Person Term Based; 1-6 cr.  
48412 008 IND, In Person Term Based; 1-6 cr.  
51661 009 IND, In Person Term Based; 1-6 cr.  
48406 001 IND, In Person Term Based; 1-6 cr.  
51646 516 IND, Study Abroad; Arthur Chen; 1-6 cr.  
48413 005 IND, In Person Term Based; 1-6 cr.**5403 Directed Studies in Landscape Architecture Technology**(Student Option; Prereq: instr consent)  
48415 002 IND, In Person Term Based; 1-6 cr.  
48416 003 IND, In Person Term Based; 1-6 cr.  
48417 004 IND, In Person Term Based; 1-6 cr.  
48421 005 IND, In Person Term Based; 1-6 cr.  
48418 006 IND, In Person Term Based; 1-6 cr.  
48419 007 IND, In Person Term Based; 1-6 cr.  
48420 008 IND, In Person Term Based; 1-6 cr.  
51662 009 IND, In Person Term Based; 1-6 cr.  
48414 001 IND, In Person Term Based; 1-6 cr.  
53315 516 IND, Study Abroad; Arthur Chen; 1-6 cr.**5404 Directed Studies in Landscape Architecture Design**(Student Option; Prereq: instr consent)  
48422 001 IND, In Person Term Based; 1-6 cr.  
48427 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
48423 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
48429 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
48426 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
51663 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
48425 004 IND, In Person Term Based; Patrick Nunnally; 1-6 cr.  
48424 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
48428 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
55894 516 IND, Study Abroad; Vincent deBritto; 1-6 cr.**5405 Interdisciplinary Studies in Landscape Architecture**(A-F or Audit; Prereq: instr consent)  
48431 002 IND, In Person Term Based; 1-6 cr.  
48434 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
48436 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
48430 001 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
51664 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
48432 003 IND, In Person Term Based; Patrick Nunnally; 1-6 cr.  
48435 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
48433 004 IND, In Person Term Based; Roger Martin; 1-6 cr.**5407 Landscape Architecture Studio**(A-F or Audit; Prereq: Admitted to Denmark International Study Program co-sponsored by the University; given in Denmark)  
48479 007 IND, In Person Term Based; David Pitt; 3-4 cr.  
48475 002 IND, In Person Term Based; John Koepke; 3-4 cr.  
48481 005 IND, In Person Term Based; Kristine Miller; 3-4 cr.  
48478 006 IND, In Person Term Based; Lance Neckar; 3-4 cr.  
51666 009 IND, In Person Term Based; Laura Musacchio; 3-4 cr.  
48476 003 IND, In Person Term Based; Rebecca Krinke; 3-4 cr.  
48480 008 IND, In Person Term Based; Robert Sykes; 3-4 cr.  
48477 004 IND, In Person Term Based; Roger Martin; 3-4 cr.  
48474 001 IND, In Person Term Based; Susan Galatowitsch; 3-4 cr.**5408 Landscape Architecture, Architecture, and Planning**(A-F or Audit; Prereq: Admitted to Denmark International Study Program co-sponsored by the University; given in Denmark)  
48487 007 IND, In Person Term Based; David Pitt; 3-4 cr.  
48483 002 IND, In Person Term Based; John Koepke; 3-4 cr.  
48489 005 IND, In Person Term Based; Kristine Miller; 3-4 cr.  
48486 006 IND, In Person Term Based; Lance Neckar; 3-4 cr.  
51667 009 IND, In Person Term Based; Laura Musacchio; 3-4 cr.  
48484 003 IND, In Person Term Based; Rebecca Krinke; 3-4 cr.  
48488 008 IND, In Person Term Based; Robert Sykes; 3-4 cr.  
48485 004 IND, In Person Term Based; Roger Martin; 3-4 cr.  
48482 001 IND, In Person Term Based; Susan Galatowitsch; 3-4 cr.**5514 Making the Mississippi**(A-F or Audit; )  
55666 001 LAB, 13:00-14:15 MW, Rapson Hall 43, In Person Term Based; Meets With: 001 LA 3514; Patrick Nunnally; 3 cr.**5772 Landscape Infrastructure Systems II**(A-F only; Prereq: Master of Landscape Architecture Student, [Accelerated BED Student or instr consent])  
60798 002 LEC, 11:15-12:05 MW, Rapson Hall 259, In Person Term Based; Joseph Favour; 3 cr.  
60796 001 LAB, 9:45-11:00 MW, Rapson Hall 58, In Person Term Based; Joseph Favour; 3 cr.**8202 Design of Planned Developments**(Student Option; Prereq: Grad LA major or instr consent)  
51544 001 LEC, In Person Term Based; Robert Sykes; 2-3 cr.**8205 Urban Form Options: Landscape Architecture Studio**(Student Option; Prereq: 2 yrs of studio, grad LA major or instr consent)  
51314 001 LAB, 14:30-17:30 MWF, Rapson Hall 261, In Person Term Based; Sara Grothe; 6-8 cr.**8207 Cities on Water International Workshop**(A-F only; Prereq: Grad LA or ARCH major or instr consent)  
59611 502 LAB, Study Abroad; Vincent deBritto; 4-8 cr.  
59612 516 LAB, Study Abroad; Vincent deBritto; 4-8 cr.**8302 Professional Practice**(A-F or Audit; Prereq: 8205, grad LA major or instr consent)  
48141 001 LEC, 15:00-17:30 W, Peik Hall 165, In Person Term Based; Matthew Tucker; 3 cr.**8333 FTE: Masters**(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49133 001 IND, In Person Term Based; 1 cr.**8400 Topics in Landscape Architecture**(Student Option; Prereq: Grad LA major or instr consent)  
48335 004 LEC, In Person Term Based; 1-8 cr.  
48337 007 LEC, In Person Term Based; David Pitt; 1-8 cr.  
48334 002 LEC, In Person Term Based; John Koepke; 1-8 cr.  
48339 005 LEC, In Person Term Based; Kristine Miller; 1-8 cr.  
48336 006 LEC, In Person Term Based; Lance Neckar; 1-8 cr.  
48338 008 LEC, In Person Term Based; Robert Sykes; 1-8 cr.  
48333 001 LEC, In Person Term Based; Susan Galatowitsch; 1-8 cr.**8401 Directed Studies in Emerging Areas of Landscape Architecture**(Student Option; Prereq: instr consent)  
48378 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
48374 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
48380 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
48377 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
51668 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
48375 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
48379 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
48376 004 IND, In Person Term Based; Roger Martin; 1-6 cr.  
48373 001 IND, In Person Term Based; Susan Galatowitsch; 1-6 cr.**8402 Directed Studies in Landscape Architecture History and Theory**(Student Option; Prereq: Grad LA major or instr consent)  
48386 008 IND, In Person Term Based; David Pitt; 1-6 cr.  
48382 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
48385 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
51669 010 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
50350 007 IND, In Person Term Based; Peter Olin; 1-6 cr.  
48383 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
48387 009 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
48384 004 IND, In Person Term Based; Roger Martin; 1-6 cr.  
48381 001 IND, In Person Term Based; Susan Galatowitsch; 1-6 cr.  
48388 005 IND, In Person Term Based; Lance Neckar; 1-6 cr.**8403 Directed Studies in Landscape Architecture Technology**(Student Option; Prereq: Grad LA major or instr consent)  
48394 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
48390 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
48396 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
48393 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
51670 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
48391 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
48395 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
48392 004 IND, In Person Term Based; Roger Martin; 1-6 cr.  
48389 001 IND, In Person Term Based; Susan Galatowitsch; 1-6 cr.



**8404 Directed Studies in Landscape Architecture Design****(Student Option; Prereq: Grad LA major or instr consent)**

49932 500 IND, Study Abroad; 1-6 cr.  
 49918 502 IND, Study Abroad; 1-6 cr.  
 51647 516 IND, Study Abroad; 1-6 cr.  
 48402 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
 48398 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
 48404 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
 48401 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
 51671 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
 48399 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
 48403 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
 48400 004 IND, In Person Term Based; Roger Martin; 1-6 cr.  
 48397 001 IND, 9:00-12:00 F, Rapson Hall 9, In Person Term Based; Rachel Blaseg; 1-6 cr.

**8405 Interdisciplinary Studies in Landscape Architecture****(A-F or Audit; Prereq: Grad LA major or instr consent)**

48442 007 IND, In Person Term Based; David Pitt; 1-6 cr.  
 48438 002 IND, In Person Term Based; John Koepke; 1-6 cr.  
 49919 502 IND, Study Abroad; Katherine Moss; 1-6 cr.  
 50326 504 IND, Study Abroad; Katherine Moss; 1-6 cr.  
 48444 005 IND, In Person Term Based; Kristine Miller; 1-6 cr.  
 48441 006 IND, In Person Term Based; Lance Neckar; 1-6 cr.  
 51672 009 IND, In Person Term Based; Laura Musacchio; 1-6 cr.  
 48439 003 IND, In Person Term Based; Rebecca Krinke; 1-6 cr.  
 48443 008 IND, In Person Term Based; Robert Sykes; 1-6 cr.  
 48440 004 IND, In Person Term Based; Roger Martin; 1-6 cr.  
 48437 001 IND, In Person Term Based; Susan Galatowitsch; 1-6 cr.  
 51648 516 IND, Study Abroad; Arthur Chen; 1-6 cr.

**8411 The foundational studio course on international applications of sustainable design in urban Europe.****(A-F only; Prereq: Grad LA or ARCH major or instr consent)**

60907 516 LEC, Study Abroad; Vincent deBritto; 4-8 cr.

**8555 Advanced Landscape Planning and Design****(A-F or Audit; Prereq: 8205, grad land arch major or instr consent)**

46847 001 LAB, 14:30-17:30 MF, Room TBA, In Person Term Based; Joseph Favour; 6 cr.

**8575 The Art and Ecology of Landscape Detail****(Student Option; Prereq: Grad LA major or instr consent)**

49716 001 LEC, 16:00-17:15 T, Rapson Hall 54, In Person Term Based; Joseph Favour; 3 cr.  
 55893 516 LEC, Study Abroad; Vincent deBritto; 3 cr.  
 49717 002 DIS, 15:45-17:30 Th, Mechanical Engineering 221, In Person Term Based; Joseph Favour; 3 cr.

**8741 Metropolitan Design Workshop and Optional Seminar****(A-F or Audit; Prereq: Enrollment in CMD prog or instr consent)**

60782 001 LEC, In Person Term Based; 3-6 cr.

**8775 Landscape Infrastructure and Site Technology V****(A-F only; Prereq: 8773, 8774 preferred, students outside of Master of Landscape Architecture program are encouraged to enroll upon demonstration of similar pre-requisite coursework and instr consent)**

60781 001 LAB, In Person Term Based; Matthew Tucker; 3 cr.

**8777 Thesis Credits: Master's****(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))**

49420 001 IND, In Person Term Based; 1-18 cr.

47399 002 LEC, 9:05-9:55 MTWThF, Folwell Hall 112, In Person Term Based; Stephen Smith; 5 cr.  
 47400 003 LEC, 13:25-14:15 MTWThF, Appleby Hall 319, In Person Term Based; Stephen Smith; 5 cr.

**3004 Intermediate Latin Poetry: Vergil****(Student Option; Prereq: Grade of at least C- or S in 3003 or 3113 or dept consent)**

69107 704 LEC, In Person Term Based; Daniel Tess; 3 cr.  
 68836 701 LEC, In Person Term Based; Emese Drew; 3 cr.  
 68835 700 LEC, In Person Term Based; Linda McGouirk; 3 cr.  
 68838 703 LEC, In Person Term Based; Maurice Taraschi; 3 cr.  
 68837 702 LEC, In Person Term Based; Shonda Tohm; 3 cr.  
 54548 001 LEC, 14:30-15:20 MWF, Nicholson Hall 115, In Person Term Based; Meets With: 001 LAT 5004; Spencer Cole; 3 cr.  
 58398 002 LEC, 11:15-12:05 MWF, Appleby Hall 223, In Person Term Based; Meets With: 002 LAT 5004; Stephen Smith; 3 cr.

**3993 Directed Studies****(Student Option; Prereq: instr consent and dept consent)**

47418 001 IND, In Person Term Based; 1-4 cr.

**4951W Major Project****(Student Option; Prereq: [Greek-Latin or Latin major], three 3xxx Latin courses, instr consent, dept consentW)**

47865 001 IND, In Person Term Based; 4 cr.

**5001 Intensive Latin****(Student Option; Prereq: Prev experience in another foreign language is desirable)**

68589 001 LEC, 10:10-11:00 MTWThF, Peik Hall 28, In Person Term Based; Stephen Smith; 3 cr.

**5004 Intermediate Latin Poetry for Graduate Students****(Student Option; )**

54541 001 LEC, 14:30-15:20 MWF, Nicholson Hall 115, In Person Term Based; Meets With: 001 LAT 3004; Spencer Cole; 3 cr.  
 68563 002 LEC, 11:15-12:05 MWF, Appleby Hall 223, In Person Term Based; Meets With: 002 LAT 3004; Stephen Smith; 3 cr.

**5200 Advanced Reading in Later Latin****(Student Option; Prereq: [LAT 3004 or equiv], at least two yrs of college level Latin. Must contact Classical and Near Eastern Studies department for permission to register.)**

56987 001 LEC, 14:30-15:45 TTh, Civil Engineering Bldg 214, In Person Term Based; Oliver Nicholson; 3 cr.

**5701 Latin Prose Composition****(Student Option; Prereq: Grad student or instr consent)**

68564 001 LEC, 12:20-13:10 MWF, Civil Engineering Bldg 214, In Person Term Based; George Sheets; 3 cr.

**5800 Sight Reading for Graduate Students****(S-N only; Prereq: Enrolled in a grad program in Department of Classical/Near Eastern Studies)**

54494 001 DIS, In Person Term Based; Aaron Thompson; 1 cr.

**5993 Directed Studies****(Student Option; Prereq: instr consent, dept consent)**

47419 001 IND, In Person Term Based; 1-4 cr.

**5994 Directed Research****(Student Option; Prereq: Grad student or instr consent)**

47421 001 IND, In Person Term Based; 1-12 cr.

**5996 Directed Instruction****(Student Option; Prereq: Grad student or instr consent)**

47420 001 IND, In Person Term Based; 1-12 cr.

**8300 Readings in Latin Texts****(Student Option; Prereq: Advanced grad student)**

68585 001 LEC, 14:30-17:00 M, Folwell Hall 28, In Person Term Based; George Sheets; 3 cr.

60507 004 DIS, 11:15-12:05 Th, Blegen Hall 430, In Person Term Based; 4 cr.  
 60508 005 DIS, 12:20-13:10 Th, Blegen Hall 430, In Person Term Based; 4 cr.  
 60502 002 DIS, 11:15-12:05 M, Social Sciences Building 278, In Person Term Based; Meets With: 002 HIST 3402W; 4 cr.  
 53020 001 LEC, 9:45-11:00 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 HIST 3402W; Patrick McNamara; 4 cr.  
 60509 006 DIS, 12:20-13:10 W, Blegen Hall 260, In Person Term Based; Meets With: 006 HIST 3402W; Patrick McNamara; 4 cr.

**3429 Latin American History in Film and Text****(Student Option; AH,GP)**

59582 001 LEC, 13:25-16:25 Th, Carlson School of Mgmt L-126, In Person Term Based; Meets With: 001 HIST 3429; Sarah Chambers; 3 cr.

**Law School (LAW)****5003 Writing, Analysis & Persuasion****(A-F only; )**

69013 001 LEC, 16:05-17:00 T, , 15:35-17:30 M, , In Person Term Based; Paula Swanson; 3 cr.

**5026 Patent Law Proseminar II****(A-F only; )**

60942 001 LEC, In Person Term Based; Meets With: 001 LAW 6926; Paula Swanson; 1 cr.

**5075 Ethics for Patent Agents****(A-F only; )**

60946 001 LEC, In Person Term Based; Paula Swanson; 1 cr.

**5232 Patent Prosecution Practice II****(A-F only; )**

60940 001 LEC, In Person Term Based; Meets With: 001 LAW 6232; Christopher Frank; 2 cr.

**5290 Patent Law Capstone: Innovation****(A-F only; )**

60945 001 LEC, In Person Term Based; Christopher Frank; 3 cr.

**5707 Seminar: Intellectual Property Transactions****(A-F only; )**

60944 001 LEC, In Person Term Based; Christopher Frank; 2 cr.

**6000 First Year Law Coursework****(A-F only; )**

60875 001 LEC, In Person Term Based; Carol Rachac; 13 cr.

**6003 Legal Writing & Research & Statutory Interpretation****(P-F only; )**

60635 011 DIS, 8:00- 8:55 W, , In Person Term Based; Brett McDonnell; 3 cr.  
 60636 012 DIS, 8:00- 8:55 W, , In Person Term Based; Brett McDonnell; 3 cr.  
 60637 013 DIS, 8:00- 8:55 W, , In Person Term Based; Brett McDonnell; 3 cr.  
 60638 014 DIS, 8:00- 8:55 W, , In Person Term Based; Brett McDonnell; 3 cr.  
 60639 015 DIS, 8:00- 8:55 W, , In Person Term Based; Brett McDonnell; 3 cr.  
 60644 031 DIS, 8:00- 8:55 Th, , In Person Term Based; Carol Chomsky; 3 cr.  
 60645 032 DIS, 8:00- 8:55 Th, , In Person Term Based; Carol Chomsky; 3 cr.  
 60646 033 DIS, 8:00- 8:55 Th, , In Person Term Based; Carol Chomsky; 3 cr.  
 60647 034 DIS, 8:00- 8:55 Th, , In Person Term Based; Carol Chomsky; 3 cr.  
 60648 035 DIS, 8:00- 8:55 Th, , In Person Term Based; Carol Chomsky; 3 cr.  
 60649 041 DIS, 8:00- 8:55 Th, , In Person Term Based; Fred Morrison; 3 cr.  
 60650 042 DIS, 8:00- 8:55 Th, , In Person Term Based; Fred Morrison; 3 cr.  
 60651 043 DIS, 8:00- 8:55 Th, , In Person Term Based; Fred Morrison; 3 cr.  
 60652 044 DIS, 8:00- 8:55 Th, , In Person Term Based; Fred Morrison; 3 cr.  
 60653 045 DIS, 8:00- 8:55 Th, , In Person Term Based; Fred Morrison; 3 cr.

**Latin (LAT)****1002 Beginning Latin II****(Student Option; Prereq: Grade of at least C- or S in 1001 or instr consent)**

50776 001 LEC, 8:00- 8:50 MTWThF, Folwell Hall 31, In Person Term Based; Stephen Smith; 5 cr.

**Latin American Studies (LAS)****3402W Modern Latin America 1825 to Present****(Student Option; GP,WI,HIS)**

60506 003 DIS, 12:20-13:10 M, Blegen Hall 205, In Person Term Based; Meets With: 003 HIST 3402W; 4 cr.

60640 021 DIS, 8:00- 8:55 W, , In Person Term Based; Kristin Hickman; 3 cr.  
 60641 022 DIS, 8:00- 8:55 W, , In Person Term Based; Kristin Hickman; 3 cr.  
 60642 023 DIS, 8:00- 8:55 W, , In Person Term Based; Kristin Hickman; 3 cr.  
 60671 024 DIS, 8:00- 8:55 W, , In Person Term Based; Kristin Hickman; 3 cr.  
 60643 025 DIS, 8:00- 8:55 W, , In Person Term Based; Kristin Hickman; 3 cr.  
 47879 010 LEC, 9:05-10:00 WTh, , In Person Term Based; Brett McDonnell; 3 cr.  
 47882 040 LEC, 9:05-10:00 WTh, , In Person Term Based; Fred Morrison; 3 cr.  
 47880 020 LEC, 9:05-10:00 WTh, , In Person Term Based; Kristin Hickman; 3 cr.  
 47881 030 LEC, 9:05-10:00 WTh, , In Person Term Based; Stacy Nordstrom; 3 cr.

**6004 Property**

(A-F only; )  
 47885 003 LEC, 13:25-14:20 T, , 13:25-14:50 MW, , In Person Term Based; Judith Younger; 4 cr.  
 54970 004 LEC, 13:25-14:20 MTWTh, , In Person Term Based; Paula Swanson; 4 cr.  
 47883 001 LEC, 13:25-14:20 MTWTh, , In Person Term Based; Paula Swanson; 4 cr.  
 47884 002 LEC, 13:25-15:25 MW, , In Person Term Based; Paula Swanson; 4 cr.

**6009 Criminal Law**

(A-F only; Prereq: dept consent)  
 50099 002 LEC, 10:10-11:35 ThF, , In Person Term Based; Kevin Reitz; 3 cr.  
 50100 003 LEC, 10:10-11:45 WTh, , In Person Term Based; Neha Jain; 3 cr.  
 68501 004 LEC, 11:15-12:10 WThF, , In Person Term Based; Paula Swanson; 3 cr.  
 50098 001 LEC, 10:10-11:35 ThF, , In Person Term Based; Susanna Blumenthal; 3 cr.

**6010 Perspectives: 1L**

(A-F only; )  
 55014 001 LEC, 9:35-11:10 MT, , In Person Term Based; Francesco Parisi; 3 cr.

**6011 International Law: 1L**

(A-F only; )  
 55015 001 LEC, 9:35-11:05 MT, , In Person Term Based; Fionnuala Ni Aolain; 3 cr.

**6012 Corporations: 1L**

(A-F only; )  
 55016 001 LEC, 9:35-11:05 MT, , In Person Term Based; Edward Adams; 3 cr.

**6013 Law In Practice 1L**

(P-F only; )  
 61285 034 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61286 035 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61287 036 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61292 044 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61293 045 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61294 046 DIS, 8:00-10:00 F, , In Person Term Based; Margaret Benz; 3 cr.  
 61274 020 LEC, 14:30-16:00 T, , In Person Term Based; Margaret Benz; 3 cr.  
 61281 030 LEC, 14:30-16:00 T, , In Person Term Based; Margaret Benz; 3 cr.  
 61288 040 LEC, 14:30-16:00 T, , In Person Term Based; Margaret Benz; 3 cr.  
 61268 011 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61269 012 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61270 013 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61275 021 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61276 022 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61277 023 DIS, 14:30-16:30 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61271 014 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61272 015 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61273 016 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61278 024 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.

61279 025 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61280 026 DIS, 16:40-18:40 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61282 031 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61283 032 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61284 033 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61289 041 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61290 042 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61291 043 DIS, 18:50-20:50 Th, , In Person Term Based; Margaret Benz; 3 cr.  
 61267 010 LEC, 14:30-16:00 T, , In Person Term Based; Mitchell Zamoff; 3 cr.

**6015 Civil Procedure II**

(A-F only; )  
 56782 001 LEC, 9:35-11:05 MT, , In Person Term Based; Paula Swanson; 3 cr.

**6017 Humphrey Law Course**

(P-F only; )  
 55034 001 LEC, 12:15-13:10 T, Mondale Hall 473, 11:15-13:10 M, Mondale Hall 473, In Person Term Based; Fionnuala Ni Aolain; 2 cr.

**6019 Seminar: LL.M. Leadership and the Law**

(A-F only; )  
 59571 001 LEC, 17:00-19:00 T, , In Person Term Based; Khary Hornsby; 2 cr.

**6021 Seminar: LL.M. Legal Writing and Legal Skills I**

(A-F only; )  
 59570 003 LEC, 17:00-19:00 Th, , In Person Term Based; Karen Lundquist; 2 cr.  
 59569 002 LEC, 17:00-19:00 W, , In Person Term Based; Karen Lundquist; 2 cr.  
 52651 001 LEC, 17:00-19:00 T, , In Person Term Based; Karen Lundquist; 2 cr.

**6022 Seminar: LL.M. Legal Writing and Legal Skills II**

(A-F only; )  
 68990 002 LEC, 16:30-18:30 W, , In Person Term Based; Paula Swanson; 2 cr.  
 68989 001 LEC, 16:30-18:30 T, , In Person Term Based; Paula Swanson; 2 cr.

**6025 Wrongful Convictions**

(A-F only; )  
 69006 001 LEC, 18:00-20:00 W, Mondale Hall N204, In Person Term Based; Paula Swanson; 2 cr.

**6026 Gaming Law**

(A-F only; )  
 69007 001 LEC, 8:35-10:00 TW, , In Person Term Based; Zachary Atherton-Ely; 3 cr.

**6028 LL.M. Judicial Observation**

(S-N only; Prereq: LLM student)  
 52842 001 FWK, In Person Term Based; Khary Hornsby; 1-2 cr.

**6031 Smart Growth**

(A-F only; )  
 69003 001 LEC, 16:05-18:00 T, , In Person Term Based; Paula Swanson; 3 cr.

**6036 Reproductive Rights**

(A-F only; )  
 57530 001 LEC, 11:15-12:10 MTW, , In Person Term Based; Judith Younger; 3 cr.

**6040 Perspectives on the Law**

(A-F only; )  
 55557 001 LEC, 9:35-11:10 MT, , In Person Term Based; Francesco Parisi; 3 cr.

**6041 Investment Management Law**

(A-F only; )  
 68996 001 LEC, 16:05-18:00 Th, , In Person Term Based; Paula Swanson; 2 cr.

**6042 Nonprofits and Public Sectors Externships**

(A-F only; )

60500 001 LEC, 15:35-17:30 MW, , In Person Term Based; Nancy Cook; 3 cr.

**6055 Advanced Corporate Law**

(A-F only; )  
 49866 001 LEC, 10:10-11:05 MTW, , In Person Term Based; John Matheson; 3 cr.

**6057 Judicial Externship**

(P-F only; )  
 47891 001 LEC, In Person Term Based; Paula Swanson; 2-3 cr.

**6058 Human Rights Advocacy**

(A-F only; )  
 60501 001 LEC, 14:30-17:15 W, Blegen Hall 230, In Person Term Based; Meets With: 001 GLOS 5403; Barbara Frey; 3 cr.

**6059 Seminar: Constitutional Law, Theories of Freedom of Expression**

(A-F only; )  
 53282 001 LEC, In Person Term Based; Jane Kirtley; 3 cr.

**6061 Financial Regulation**

(A-F only; )  
 60504 001 LEC, 13:25-14:50 WTh, , In Person Term Based; Brett McDonnell; 2-3 cr.

**6062 Energy Law**

(A-F only; )  
 60510 001 LEC, 13:25-14:50 TW, , In Person Term Based; Paula Swanson; 2-3 cr.

**6071 International Law**

(A-F only; Prereq: Upper division students only)  
 60736 001 LEC, 9:35-11:05 MT, , In Person Term Based; Fionnuala Ni Aolain; 3 cr.

**6072 Corporations**

(A-F only; Prereq: Upper division students only)  
 60737 001 LEC, 9:35-11:05 MT, , In Person Term Based; Edward Adams; 3 cr.

**6075 Civil Procedure II**

(A-F only; Prereq: Upper division students only)  
 68951 001 LEC, 9:35-11:05 MT, , In Person Term Based; Michael Galegher; 3 cr.

**6081 Constitutional Law II**

(A-F only; )  
 68969 001 LEC, 11:15-12:10 MTW, , In Person Term Based; Michael Galegher; 3 cr.

**6083 First Amendment**

(A-F only; )  
 68975 001 LEC, 10:10-11:35 ThF, , In Person Term Based; Paula Swanson; 3 cr.

**6085 Criminal Procedure**

(A-F only; )  
 68971 001 LEC, 13:25-14:50 ThF, , In Person Term Based; Paula Swanson; 3 cr.

**6100 Taxation I**

(A-F only; )  
 47902 001 LEC, 13:25-14:50 WThF, , In Person Term Based; Kristin Hickman; 4 cr.

**6103 Privacy**

(A-F only; )  
 60505 001 LEC, 13:25-14:20 WThF, , In Person Term Based; William McGeeveran; 2-3 cr.

**6107 Bankruptcy**

(A-F only; )  
 60503 001 LEC, 14:30-16:00 ThF, , In Person Term Based; Christopher Soper; 3 cr.

**6109 Creditors' Remedies/Secured Transactions**

(A-F only; )  
 68970 001 LEC, 13:25-14:50 MT, , In Person Term Based; Paula Swanson; 3 cr.

**6114 Partnership Taxation**

(A-F only; )  
 69000 001 LEC, 13:25-14:50 MT, , In Person Term Based; Paula Swanson; 3 cr.

**6115 Civil Litigation: Case Development and Discovery**

- (A-F only; )  
69017 001 LEC, In Person Term Based; Paula Swanson; 2 cr.
- 6117 CL: Civil Rights Enforcement**  
(A-F only; )  
69018 001 FWK, In Person Term Based; Paula Swanson; 2 cr.
- 6126 Water Law**  
(A-F only; )  
69005 001 LEC, 10:10-11:35 WTh, , In Person Term Based; Brad Karkkainen; 3 cr.
- 6202 Conflicts**  
(A-F only; )  
60511 001 LEC, 9:05-10:00 MTW, , In Person Term Based; Sharon Paulsen; 3 cr.
- 6208 Local Government Law**  
(A-F only; )  
68998 001 LEC, 13:25-14:50 TTh, Mondale Hall N204, In Person Term Based; Paula Swanson; 2-3 cr.
- 6211 Federal Securities Regulations**  
(A-F only; Prereq: Business Associations/Corporations I)  
53267 001 LEC, 11:15-12:10 MTWTh, , In Person Term Based; Richard Painter; 3-4 cr.
- 6217 Securities Litigation**  
(A-F only; Prereq: [Business associations or securities] regulation recommended)  
55737 001 LEC, 13:25-14:20 MT, Room TBA, In Person Term Based; Richard Painter; 2 cr.
- 6219 Evidence**  
(A-F only; )  
51561 001 LEC, 8:00-10:00 MT, , In Person Term Based; Francis Shen; 4 cr.
- 6223 Poverty Law II**  
(A-F only; )  
60847 001 LEC, 15:35-18:30 M, , In Person Term Based; Lawrence Mc Donough; 3 cr.
- 6228 American Legal History**  
(A-F only; )  
68949 001 LEC, In Person Term Based; Paula Swanson; 3 cr.
- 6229 Criminal Process**  
(A-F only; Prereq: Criminal procedure recommended)  
68972 001 LEC, In Person Term Based; Paula Swanson; 3 cr.
- 6232 Patent Prosecution Practice II**  
(A-F only; )  
60941 001 LEC, In Person Term Based; Meets With: 001 LAW 5232; Christopher Frank; 2 cr.
- 6234 Natural Resources**  
(A-F only; )  
68999 001 LEC, 10:10-11:35 MT, , In Person Term Based; Paula Swanson; 3 cr.
- 6236 Indian Law**  
(A-F only; )  
69011 001 LEC, 8:35-10:00 ThF, , In Person Term Based; 3 cr.
- 6242 Patent Application Drafting**  
(A-F only; )  
69001 001 LEC, In Person Term Based; 1 cr.
- 6245 Interviewing, Counseling, and Negotiating**  
(A-F only; Prereq: dept consent)  
53820 001 LEC, 8:00-10:00 W, Mondale Hall 170, 8:00-9:00 M, Mondale Hall 170, In Person Term Based; Elizabeth Shields Thompson; 3 cr.
- 6247 Depositions**  
(A-F only; )  
68973 001 LEC, 18:10-20:00 W, , 16:05-18:00 M, , In Person Term Based; Paula Swanson; 2 cr.
- 6248 Advanced Patents**  
(A-F only; )  
60512 001 LEC, 14:30-15:25 WTh, , In Person Term Based; Thomas Cotter; 2 cr.
- 6400 Seminar: International Environmental Law**  
(A-F only; )  
68988 001 LEC, 15:35-17:30 M, , In Person Term Based; Paula Swanson; 2 cr.
- 6405 Labor and Employment Law Capstone**  
(A-F only; )  
68997 001 LEC, 16:05-18:00 T, Mondale Hall 473, In Person Term Based; Paula Swanson; 5 cr.
- 6413 Family Law Capstone**  
(A-F only; )  
68974 001 LEC, 10:10-11:35 ThF, Mondale Hall 473, In Person Term Based; Paula Swanson; 3 cr.
- 6490 Patent Law Capstone: Innovation**  
(A-F only; )  
68992 001 LEC, In Person Term Based; 3 cr.
- 6600 Professional Responsibility**  
(A-F only; )  
69002 003 LEC, In Person Term Based; 3 cr.  
47901 001 LEC, 14:30-15:25 MTW, , In Person Term Based; David Schultz; 3 cr.
- 6601 International Business Transactions**  
(A-F only; )  
53269 001 LEC, 13:25-14:50 ThF, , In Person Term Based; Oren Gross; 3 cr.
- 6605 Health Law**  
(A-F only; )  
57528 001 LEC, 10:10-11:35 MT, , In Person Term Based; Amy Monahan; 3 cr.
- 6606 Administrative Law**  
(A-F only; )  
47886 001 LEC, 10:10-11:35 ThF, , In Person Term Based; Christopher Roberts; 3 cr.
- 6608 Trademarks**  
(A-F only; )  
60514 001 LEC, 10:10-11:05 WThF, , In Person Term Based; Paula Swanson; 3 cr.
- 6610 Unfair Competition**  
(A-F only; )  
53816 001 LEC, 11:15-12:10 WThF, , In Person Term Based; Thomas Cotter; 3 cr.
- 6613 Copyright**  
(A-F only; )  
60515 001 LEC, 13:25-14:20 MTW, , In Person Term Based; Daniel Gifford; 3 cr.
- 6615 Jurisprudence**  
(A-F only; )  
51077 001 LEC, 10:10-11:05 MWF, Room TBA, In Person Term Based; Meets With: 001 PHIL 5415; Brian Bix; 3 cr.
- 6618 Trial Practice**  
(A-F only; Prereq: Evidence)  
47903 001 LEC, 18:10-21:00 M, Mondale Hall 170, In Person Term Based; Paula Swanson; 3 cr.  
47904 002 LEC, 18:10-21:00 T, Mondale Hall 170, In Person Term Based; Paula Swanson; 3 cr.
- 6619 International Trade Law**  
(A-F only; )  
60516 001 LEC, 10:10-11:05 WThF, , In Person Term Based; Oren Gross; 2-3 cr.
- 6621 Civil Rights**  
(A-F only; )  
57529 001 LEC, 16:05-19:05 Th, , In Person Term Based; Christopher Roberts; 2-3 cr.
- 6623 Integrative Leadership: From Theory to Practice**  
(A-F only; )  
60832 001 LEC, 18:00-20:45 M, Carlson School of Mgmt L-122, In Person Term Based; Meets With: 001 PA 5105060 MGMT 6402001 OLPD 6402001 PUBH 6702; Katie White; 3 cr.
- 6624 Strategic Management of Intellectual Property**  
(A-F only; )  
60831 001 LEC, 10:10-11:35 MT, , In Person Term Based; Paul Vaaler; 2-3 cr.
- 6626 Complex and Cross-Cultural Negotiations**  
(A-F only; )  
69016 001 LEC, In Person Term Based; 2 cr.
- 6627 International Tax**  
(A-F only; )  
68978 001 LEC, 8:00-10:00 F, , In Person Term Based; Kenneth Levinson; 2 cr.
- 6628 Advanced Trial Practice**  
(A-F only; )  
49023 001 LEC, In Person Term Based; Paula Swanson; 2-3 cr.
- 6643 Business Strategy for Legal Professionals**  
(A-F only; )  
68950 001 LEC, In Person Term Based; 3 cr.
- 6648 International Criminal Law**  
(A-F only; )  
68977 001 LEC, 13:25-14:50 WTh, Mondale Hall 475, In Person Term Based; Paula Swanson; 3 cr.
- 6701 Seminar: Criminal Law and Literature - Examining Criminal Practice & Theory through Didactic Fiction**  
(A-F only; )  
60524 001 LEC, 16:05-19:05 Th, Mondale Hall 475, In Person Term Based; Michael Tonry; 3 cr.
- 6707 Seminar: Intellectual Property Transactions**  
(A-F only; )  
68976 001 LEC, In Person Term Based; 2 cr.
- 6709 Seminar: Agriculture & the Environment**  
(A-F only; )  
68981 001 LEC, 15:35-17:30 W, Mondale Hall 473, In Person Term Based; Paula Swanson; 2 cr.
- 6712 Seminar: Complex Criminal Investigations**  
(A-F only; )  
68948 001 LEC, 18:10-20:10 T, Mondale Hall 475, In Person Term Based; Paula Swanson; 2 cr.
- 6713 Comparative Legal Professions**  
(A-F only; )  
68968 001 LEC, 13:25-14:20 MT, Mondale Hall 473, In Person Term Based; Paula Swanson; 2 cr.
- 6714 Seminar: E-Discovery**  
(A-F only; )  
68985 001 LEC, 16:05-18:00 T, , In Person Term Based; Paula Swanson; 2 cr.
- 6812 Statistics for Legal Practice**  
(A-F only; )  
69004 001 LEC, 15:35-17:30 M, Mondale Hall 471, In Person Term Based; Paula Swanson; 3 cr.
- 6814 Racketeering and the RICO Act: Criminal & Civil Liability**  
(A-F only; )  
68993 001 LEC, 16:05-18:00 Th, Mondale Hall 473, In Person Term Based; Paula Swanson; 2 cr.
- 6817 Seminar: Practical Estate Planning**  
(A-F only; )  
47911 001 LEC, 15:35-17:30 M, Mondale Hall 473, In Person Term Based; Bronwen Count; 2 cr.
- 6824 Seminar: Genetics: Law and Ethics (A-F or Audit; )**  
56739 001 LEC, In Person Term Based; Brian Van Ness; 2 cr.
- 6827 Seminar: Women's International Human Rights**  
(A-F only; )  
60901 001 LEC, 10:10-12:10 Th, Mondale Hall 475, In Person Term Based; Marsha Freeman; 2 cr.
- 6830 Seminar: Corporate Counsel**  
(A-F only; )

60526 001 LEC, 16:05-18:00 Th, Mondale Hall N209, In Person Term Based; David Fisher; 2 cr.

**6832 Seminar: Cyber-Security - Spies, Lies and Prying Eyes**

(A-F only; )  
68984 001 LEC, 16:05-18:00 Th, Mondale Hall N202, In Person Term Based; Paula Swanson; 2 cr.

**6837 Seminar: Contract Drafting**

(A-F only; )  
55699 002 LEC, 15:35-17:30 M, , In Person Term Based; Paula Swanson; 2 cr.  
54407 001 LEC, 8:00-10:00 M, Mondale Hall N202, In Person Term Based; Paula Swanson; 2 cr.

**6840 Seminar: Comparative Antitrust**

(A-F only; )  
57563 001 LEC, 16:05-18:00 T, , In Person Term Based; Daniel Gifford; 2 cr.

**6842 Seminar: Advanced Criminal Procedure**

(A-F or Audit; )  
68979 001 LEC, 16:05-18:00 T, Mondale Hall 170, In Person Term Based; Paula Swanson; 2 cr.

**6844 Seminar: Advanced Real Estate Transactions**

(A-F only; )  
68980 001 LEC, 16:30-18:30 T, , In Person Term Based; Paula Swanson; 2 cr.

**6846 Seminar: Philosophy of Punishment**

(A-F only; )  
60529 001 LEC, 16:05-19:05 T, Mondale Hall N204, In Person Term Based; Michael Tonry; 2-3 cr.

**6849 Seminar: Comparative Theories of Ownership**

(A-F only; )  
60550 001 LEC, 16:05-18:00 T, Mondale Hall 475, In Person Term Based; Ann Burkhart; 2 cr.

**6851 Practice-Ready Legal Research**

(A-F only; )  
47907 001 LEC, 15:35-17:30 W, , In Person Term Based; Kurt Meyer; 2 cr.

**6873 Seminar: Nonprofit Law**

(A-F only; )  
68991 001 LEC, 15:35-17:30 M, Mondale Hall N202, In Person Term Based; Paula Swanson; 2 cr.

**6875 Joint Degree Program in Law, Science & Technology Proseminar**

(S-N only; Prereq: dept consent)  
60530 001 LEC, In Person Term Based; Paula Swanson; 0.5 cr.

**6876 Seminar: Digital Evidence**

(A-F only; )  
53281 001 LEC, 16:05-18:00 T, , In Person Term Based; Michael Hannon; 2 cr.

**6878 Seminar: Regulating Personal Health Information**

(A-F only; )  
68995 001 LEC, 16:05-18:00 T, , In Person Term Based; Paula Swanson; 2 cr.

**6888 Creative Legal Reasoning**

(P-F only; )  
68983 001 LEC, 15:35-17:30 M, , In Person Term Based; Paula Swanson; 1 cr.

**6889 Laws of War**

(A-F only; )  
60531 001 LEC, 13:25-14:20 MTW, Mondale Hall N202, In Person Term Based; Fionnuala Ni Aolain; 2-3 cr.

**6890 Seminar: Rule by Law in China: An Advanced Seminar**

(A-F only; )  
68994 001 LEC, 15:35-17:30 M, Mondale Hall N209, In Person Term Based; Paula Swanson; 2 cr.

**6892 Seminar: Comparative Criminal Procedure**

(A-F only; )  
68982 001 LEC, 15:35-18:35 M, Mondale Hall N204, In Person Term Based; Paula Swanson; 3 cr.

**6897 Seminar: Game Theory**

(A-F only; )  
69012 001 LEC, 14:30-15:55 TTh, Mondale Hall 473, In Person Term Based; Paula Swanson; 3 cr.

**6919 Seminar: Health Care Fraud and Abuse**

(A-F or Audit; )  
68987 001 LEC, 16:05-18:00 Th, Mondale Hall N204, In Person Term Based; Paula Swanson; 2 cr.

**6923 Federal Reserve System - Legal and Policy Perspectives**

(A-F only; )  
68986 001 LEC, 16:05-18:00 T, , In Person Term Based; Paula Swanson; 2 cr.

**6926 Patent Law Proseminar II**

(A-F only; )  
60943 001 LEC, In Person Term Based; Meets With: 001 LAW 5026; Paula Swanson; 1 cr.

**6999 Transfer**

(P-F only; )  
50774 001 LEC, In Person Term Based; 1-50 cr.

**7000 CL: Civil Practice**

(A-F only; )  
48795 002 FWK, In Person Term Based; Kathleen Weston; 3-4 cr.  
47910 001 FWK, 15:35-17:30 W, Room TBA, In Person Term Based; Kathleen Weston; 3-4 cr.

**7001 CL: Civil Practice Director**

(A-F only; Prereq: dept consent)  
49025 001 LEC, In Person Term Based; Kathleen Weston; 3 cr.

**7003 Seminar: Student Legal Writing Instructor**

(A-F only; )  
53847 001 LEC, In Person Term Based; Bradley Clary; 2 cr.

**7004 Seminar: Structured Study Group Instructors**

(S-N only; )  
54505 001 LEC, In Person Term Based; Paula Swanson; 2 cr.

**7005 Practice and Professionalism Student Instructors**

(P-F only; )  
55183 001 LEC, 11:15-12:10 F, Room TBA, In Person Term Based; Nancy Cook; 1-2 cr.

**7006 ABA Negotiation Competition Team**

(P-F only; )  
56013 001 LEC, In Person Term Based; Mary Alton; 1-2 cr.

**7008 CL: Insurance Law Clinic**

(A-F only; )  
69015 001 FWK, 15:35-17:30 W, , In Person Term Based; Paula Swanson; 2-3 cr.

**7010 CL: Innocence**

(A-F only; )  
52708 001 FWK, 15:35-17:30 W, Room TBA, In Person Term Based; Julie Jonas; 3 cr.

**7012 CL: Environmental Sustainability Policy: Land, Water and Energy**

(A-F only; )  
56810 002 FWK, In Person Term Based; 3 cr.  
55752 001 FWK, 14:30-16:30 M, Room TBA, In Person Term Based; Paula Swanson; 3 cr.

**7013 CL: Environmental Sustainability Policy Directors**

(A-F only; )  
56817 001 FWK, In Person Term Based; Paula Swanson; 2-3 cr.

**7015 CL: Worker Rights**

(A-F only; )  
52709 001 FWK, 15:35-17:30 W, Room TBA, In Person Term Based; Paula Swanson; 2 cr.

**7016 CL: Workers Rights Directors**

(A-F only; )  
53316 001 FWK, In Person Term Based; Kathleen Weston; 2 cr.

**7017 International Humphrey Fellow Student Instructor**

(A-F only; )  
60862 001 IND, In Person Term Based; Kristi Rudelius-Palmer; 1-2 cr.

**7018 Intercollegiate Trial Team**

(A-F only; Prereq: Trial practice)  
53380 001 LEC, In Person Term Based; Bradley Clary; 2 cr.

**7020 CL: Special Education Law**

(A-F only; )  
53287 001 FWK, 15:35-17:30 T, Room TBA, In Person Term Based; Daniel Stewart; 2-3 cr.

**7021 CL: Special Education Director**

(A-F only; )  
53882 001 FWK, 14:30-16:30 M, , In Person Term Based; Kathleen Weston; 2-3 cr.

**7025 ABA Moot Court Competition Team**

(A-F only; Prereq: dept consent)  
49026 001 LEC, 18:00-18:55 T, , In Person Term Based; Bradley Clary; 1 cr.

**7026 ABA Moot Court Competition Director**

(A-F only; Prereq: dept consent)  
49027 001 LEC, In Person Term Based; Bradley Clary; 1-2 cr.

**7030 CL: Consumer Protection**

(A-F only; )  
60535 001 FWK, 15:35-17:30 W, , In Person Term Based; Prentiss Cox; 3-4 cr.

**7031 CL: Consumer Protection Directors**

(A-F only; )  
60536 001 FWK, In Person Term Based; Paula Swanson; 3 cr.

**7035 Environmental Law Moot Court**

(A-F only; Prereq: dept consent)  
47888 001 LEC, In Person Term Based; Collette Adkins-Giese; 1 cr.

**7036 Environmental Law Moot Court Director**

(A-F only; Prereq: dept consent)  
49028 001 LEC, In Person Term Based; Collette Adkins-Giese; 1 cr.

**7037 Environmental Law Moot Court Competition Team**

(A-F only; Prereq: dept consent)  
49029 001 LEC, In Person Term Based; Collette Adkins-Giese; 1 cr.

**7040 CL: Community Mediation**

(A-F only; )  
69019 001 FWK, In Person Term Based; 3 cr.

**7041 CL: Community Mediation Directors**

(A-F only; )  
69074 001 FWK, In Person Term Based; Karmit Bulman; 2 cr.

**7042 CL: Federal Immigration Litigation**

(A-F only; )  
60533 001 LEC, 15:35-17:30 W, , In Person Term Based; Ben Casper; 3-4 cr.

**7043 CL: Federal Immigration Litigation Director**

(A-F only; )  
60534 001 LEC, In Person Term Based; Ben Casper; 3 cr.

**7045 ABA Journal of Labor and Employment Law Editors**

(S-N only; Prereq: 3rd yr, dept consent)  
47906 001 LEC, In Person Term Based; Laura Cooper; 2 cr.

**7046 ABA Journal of Labor & Employment Law: Research & Writing**

(P-F only; )  
49030 001 LEC, In Person Term Based; Stephen Befort; 1 cr.

**7055 Maynard Pirsig Moot Court**

**(A-F only; Prereq: dept consent)**

47896 003 LEC, 8:00- 8:55 M, , In Person Term Based; Neal Buehe; 1 cr.  
 60740 008 LEC, 18:00-18:55 T, , In Person Term Based; Stacy Nordstrom; 1 cr.  
 51095 006 LEC, 12:15-13:10 T, , In Person Term Based; Bradley Clary; 1 cr.  
 51715 007 LEC, 8:00- 8:55 T, , In Person Term Based; Stacy Nordstrom; 1 cr.  
 47897 004 LEC, 12:15-13:10 W, , In Person Term Based; Stacy Nordstrom; 1 cr.  
 47898 005 LEC, 12:15-13:10 T, , In Person Term Based; Stacy Nordstrom; 1 cr.  
 47895 002 LEC, 12:15-13:10 M, , In Person Term Based; Stacy Nordstrom; 1 cr.  
 47894 001 LEC, 18:00-18:55 W, , In Person Term Based; Stacy Nordstrom; 1 cr.

**7056 Maynard Pirsig Moot Court Director**

**(A-F only; Prereq: dept consent)**  
 49031 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7057 Maynard Pirsig Moot Court Research Director**

**(A-F only; Prereq: dept consent)**  
 49032 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7058 Maynard Pirsig Moot Court Managing Director**

**(A-F only; )**  
 49033 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7065 National Moot Court**

**(A-F only; Prereq: dept consent)**  
 47900 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7066 National Moot Court Director**

**(A-F only; Prereq: dept consent)**  
 49034 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7067 National Moot Court Administrative Director**

**(A-F only; Prereq: dept consent)**  
 49035 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7068 National Moot Court Competition Team**

**(A-F only; )**  
 49036 001 LEC, In Person Term Based; Bradley Clary; 1 cr.

**7075 International Moot Court**

**(A-F only; Prereq: dept consent)**  
 47890 001 LEC, In Person Term Based; Geoffrey Larson; 1 cr.

**7076 International Moot Court Director**

**(A-F only; )**  
 49037 001 LEC, In Person Term Based; Geoffrey Larson; 1 cr.

**7078 International Moot Court Competition Team**

**(A-F only; )**  
 49867 001 LEC, In Person Term Based; Geoffrey Larson; 1 cr.

**7085 Intellectual Property Moot Court**

**(A-F only; Prereq: dept consent)**  
 47889 001 LEC, In Person Term Based; Katherine Muller; 1 cr.

**7086 Intellectual Property Moot Court Competition Team**

**(A-F only; )**  
 49038 001 LEC, In Person Term Based; Katherine Muller; 1 cr.

**7087 Intellectual Property Moot Court Director**

**(A-F only; Prereq: dept consent)**  
 49039 001 LEC, In Person Term Based; Katherine Muller; 1 cr.

**7092 CL: Bankruptcy Clinic**

**(A-F only; )**  
 49040 001 LEC, 16:05-18:00 T, Room TBA, In Person Term Based; Clinton Cutler; 3 cr.

**7093 CL: Bankruptcy Clinic Director**

**(A-F only; Prereq: dept consent)**

49041 001 LEC, In Person Term Based; Maury Landsman; 2-3 cr.

**7094 Civil Rights Moot Court Administrative Director**

**(A-F only; )**  
 49042 001 LEC, In Person Term Based; Jody Ward; 1-2 cr.

**7095 Civil Rights Moot Court**

**(A-F only; Prereq: dept consent)**  
 47887 001 LEC, In Person Term Based; Stacy Nordstrom; 1 cr.

**7096 Civil Rights Moot Court Director**

**(A-F only; )**  
 49043 001 LEC, In Person Term Based; Jody Ward; 1 cr.

**7097 Civil Rights Moot Court Competition Team**

**(A-F only; Prereq: dept consent)**  
 49044 001 LEC, In Person Term Based; Jody Ward; 1 cr.

**7098 CL: Indian Child Welfare Act**

**(A-F only; )**  
 49045 001 LEC, In Person Term Based; Jean Sanderson; 3-4 cr.

**7099 CL: Indian Child Welfare Clinic Director**

**(A-F only; Prereq: dept consent)**  
 49046 001 LEC, In Person Term Based; Jean Sanderson; 3 cr.

**7100 Law Review Editors**

**(S-N only; Prereq: instr consent)**  
 47893 001 LEC, In Person Term Based; Kristin Hickman; 2 cr.

**7102 Law Review: Research & Writing**

**(P-F only; )**  
 55030 001 LEC, In Person Term Based; Kristin Hickman; 1 cr.

**7200 Law and Inequality Journal Editor**

**(S-N only; Prereq: instr consent)**  
 47892 001 LEC, In Person Term Based; Michele Goodwin; 2 cr.

**7202 Law & Inequality Journal: Research & Writing**

**(P-F only; )**  
 55031 001 LEC, In Person Term Based; Michele Goodwin; 1 cr.

**7246 CL: Housing**

**(A-F only; )**  
 51096 001 LEC, 15:35-17:30 W, , 9:05-10:00 M, Room TBA, In Person Term Based; Paula Swanson; 3 cr.

**7247 CL: Housing Clinic Director**

**(A-F only; Prereq: dept consent)**  
 51097 001 LEC, In Person Term Based; Lawrence Mc Donough; 1-4 cr.

**7300 Minnesota Journal of International Law Editor**

**(S-N only; )**  
 47899 001 LEC, In Person Term Based; David Weissbrodt; 2 cr.

**7302 Journal of International Law:**

**Research & Writing**  
**(P-F only; )**  
 55029 001 LEC, In Person Term Based; David Weissbrodt; 1 cr.

**7400 CL: Human Rights Litigation and International Legal Advocacy**

**(A-F only; Prereq: dept consent)**  
 55751 001 FWK, 14:30-16:30 W, Room TBA, In Person Term Based; Kathleen Weston; 4 cr.

**7401 CL: Human Rights Litigation and International Legal Advocacy Directors**

**(A-F only; Prereq: dept consent)**  
 55996 001 FWK, In Person Term Based; Jennifer Green; 3 cr.

**7500 CL: Misdemeanor Defense**

**(A-F only; )**

47913 001 FWK, In Person Term Based; Meets With: 001 LAW 7550; Paula Swanson; 2-3 cr.

**7501 CL: Criminal Justice Directors**

**(A-F only; Prereq: dept consent)**  
 49047 001 LEC, In Person Term Based; Stephen Simon; 2 cr.

**7550 CL: Misdemeanor Prosecution**

**(A-F only; )**  
 47914 001 FWK, In Person Term Based; Meets With: 001 LAW 7500; Paula Swanson; 3 cr.

**7551 CL: Criminal Justice**

**(A-F only; )**  
 56818 001 FWK, 15:35-17:30 M, Room TBA, In Person Term Based; Paula Swanson; 3 cr.

**7572 Clinic: Federal Defense**

**(A-F only; Prereq: Criminal law, criminal procedure/ evidence; evidence course may be enrolled in concurrently)**  
 52695 001 FWK, In Person Term Based; Richard Frase; 3 cr.

**7600 Minnesota Journal of Law, Science, and Technology Editor**

**(S-N only; )**  
 48858 001 LEC, In Person Term Based; Susan Wolf; 2 cr.

**7602 Journal of Law, Science & Technology: Research & Writing**

**(P-F only; )**  
 55028 001 LEC, In Person Term Based; Susan Wolf; 1 cr.

**7675 CL: Child Advocacy**

**(A-F only; )**  
 49048 001 FWK, In Person Term Based; Jean Sanderson; 3-4 cr.

**7676 CL: Child Advocacy Director**

**(A-F only; Prereq: dept consent)**  
 49049 001 LEC, In Person Term Based; Jean Sanderson; 3 cr.

**7700 Off-Campus Legal Studies**

**(S-N only; Prereq: dept consent)**  
 50339 001 LEC, In Person Term Based; Paula Swanson; 0-18 cr.

**7750 CL: Community Practice**

**(A-F only; )**  
 60537 001 FWK, 15:35-17:30 W, Mondale Hall 475, In Person Term Based; Paula Swanson; 2-3 cr.

**7842 CL: Immigration and Human Rights**

**(A-F only; )**  
 48531 001 LEC, 15:35-17:30 W, Mondale Hall N202, In Person Term Based; Paula Swanson; 3-4 cr.

**7843 CL: Immigration Clinic Director**

**(A-F only; Prereq: dept consent)**  
 49050 001 LEC, In Person Term Based; Kathleen Weston; 3 cr.

**7844 CL: Detainee Rights**

**(A-F only; )**  
 69014 001 FWK, 15:35-17:30 W, , In Person Term Based; Paula Swanson; 3-4 cr.

**7850 CL: Public Interest Law**

**(A-F only; )**  
 49868 001 FWK, 16:05-18:00 T, Room TBA, In Person Term Based; Monica Bogucki; 2 cr.

**7860 CL: Business Law**

**(A-F only; )**  
 51098 001 LEC, 15:35-17:30 MW, , In Person Term Based; David Fisher; 3 cr.

**7950 CL: Tax Clinic**

**(A-F only; )**  
 47915 001 FWK, 12:15-13:15 T, , In Person Term Based; Kathryn Sedo; 3-4 cr.

**7951 CL: Tax Clinic Director**

**(A-F only; Prereq: dept consent)**  
 49051 001 LEC, In Person Term Based; Kathryn Sedo; 3 cr.

**Learning and Academic Skills (LASK)**

**1001 Mastering Skills for College Success**  
(Student Option; )

48959 006 LEC, 12:20-14:15 TTh, Rapson Hall 15, In Person Term Based; ; 2 cr.  
 48958 004 LEC, 11:15-12:05 TTh, Peik Hall 375, In Person Term Based; ; 2 cr.  
 50128 005 LEC, 14:30-15:20 TTh, Burton Hall 120, In Person Term Based; ; 2 cr.  
 48957 007 LEC, 18:20-20:10 W, Peik Hall 335, In Person Term Based; ; 2 cr.  
 48956 003 LEC, 15:35-16:25 MW, Folwell Hall 123, In Person Term Based; William Slattery; 2 cr.  
 48955 002 LEC, 11:15-12:05 MW, Peik Hall 335, In Person Term Based; William Slattery; 2 cr.  
 48954 001 LEC, 10:10-11:00 MW, Peik Hall 375, In Person Term Based; William Slattery; 2 cr.

**1101 Academic Refresher**

(S-N or Audit; Prereq: instr consent)  
 48992 001 LEC, 9:05-9:55 W, Peik Hall 375, In Person Term Based; Jo Quanbeck; 1 cr.

**1102 Academic Success**

(S-N only; Prereq: instr consent; preference given to students on academic probation or returning from academic suspension)  
 54799 001 LEC, In Person Term Based; ; 2 cr.  
 55057 003 LEC, In Person Term Based; ; 2 cr.  
 55056 002 LEC, In Person Term Based; ; 2 cr.

**Liberal Studies (LS)****5100 Liberal Studies Seminar**

(A-F or Audit; )  
 61460 008 LEC, In Person Term Based; 1-4 cr.  
 56996 004 LEC, 18:20-20:50 Th, Room TBA, In Person Term Based; 1-4 cr.  
 56997 006 LEC, 18:20-20:50 T, Room TBA, In Person Term Based; 1-4 cr.  
 48173 007 LEC, 18:20-20:50 W, Room TBA, In Person Term Based; Araela Kumaraea; 1-4 cr.  
 59100 A94 LEC, Online & Distance Lrng (ODL); Arthur Harkins; 1-4 cr.  
 57297 005 LEC, 18:20-20:50 M, Room TBA, In Person Term Based; Julie Neraas; 1-4 cr.  
 57296 003 LEC, 18:20-20:50 T, Room TBA, In Person Term Based; Roslye Utlan; 1-4 cr.  
 48171 001 LEC, 18:00-20:30 M, Blegen Hall 210, In Person Term Based; Meets With: 001 ACL 5200; Tom Borrup; 1-4 cr.  
 48172 002 LEC, 18:20-20:50 W, Folwell Hall 116, In Person Term Based; Meets With: 001 IS 5100; Virajita Singh; 1-4 cr.

**5125 Field Experience**

(A-F or Audit; Prereq: MLS student or instr consent)  
 50245 001 FWK, In Person Term Based; Adam Reef; 1-8 cr.

**5950 Special Topics**

(A-F or Audit; )  
 57359 001 LEC, 9:00-15:00 Sa, Ruttan Hall B36, In Person Term Based; 1-4 cr.  
 61261 002 LEC, 9:00-15:00 Sa, Ruttan Hall B36, In Person Term Based; David Husom; 1-4 cr.

**5993 Directed Studies**

(Student Option; Prereq: Grad student, dept consent)  
 49845 012 IND, In Person Term Based; 1-4 cr.  
 49846 013 IND, In Person Term Based; 1-4 cr.  
 52996 001 IND, In Person Term Based; 1-4 cr.  
 52997 002 IND, In Person Term Based; 1-4 cr.  
 49836 003 IND, In Person Term Based; 1-4 cr.  
 49837 004 IND, In Person Term Based; 1-4 cr.  
 49838 005 IND, In Person Term Based; 1-4 cr.  
 49839 006 IND, In Person Term Based; 1-4 cr.  
 49840 007 IND, In Person Term Based; 1-4 cr.  
 49841 008 IND, In Person Term Based; 1-4 cr.  
 49842 009 IND, In Person Term Based; 1-4 cr.  
 49843 010 IND, In Person Term Based; 1-4 cr.  
 49844 011 IND, In Person Term Based; 1-4 cr.  
 49847 014 IND, In Person Term Based; 1-4 cr.  
 49848 015 IND, In Person Term Based; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq: instr consent)  
 48174 001 IND, In Person Term Based; 1-4 cr.

**8001 Introduction to Interdisciplinary Inquiry**

(A-F or Audit; Prereq: MLS student, dept consent)  
 48169 001 DIS, 18:15-20:45 T, Ford Hall 170, In Person Term Based; Anita Gonzalez; 3 cr.

**8002 Final Project for Graduate Liberal Studies**

(A-F or Audit; Prereq: MLS; all MLS coursework must be completed by end of sem, dept consent)  
 48170 001 LEC, 18:20-20:50 Th, Blegen Hall 235, In Person Term Based; David Shupe; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49135 001 IND, In Person Term Based; 1 cr.

**Linguistics (LING)****1701 Language and Society**

(Student Option; DSJ)  
 57073 051 DIS, 20:45-21:35 W, Folwell Hall 103, In Person Term Based; 4 cr.  
 57072 050 LEC, 18:10-20:35 W, Folwell Hall 120, In Person Term Based; ; 4 cr.

**1910W Freshman Seminar**

(Student Option; Prereq: FreshmanWI)  
 58992 001 LEC, 13:00-15:30 F, Elliott Hall N647, In Person Term Based; Jeanette Gundel; 3 cr.

**3001 Introduction to Linguistics**

(Student Option; SOCS)  
 57091 052 DIS, 20:45-21:35 T, Folwell Hall 103, In Person Term Based; 4 cr.  
 57090 051 DIS, 20:45-21:35 T, Folwell Hall 104, In Person Term Based; 4 cr.  
 50113 002 DIS, 11:15-12:05 T, Vincent Hall 1, In Person Term Based; 4 cr.  
 50114 003 DIS, 11:15-12:05 Th, Vincent Hall 2, In Person Term Based; 4 cr.  
 50112 001 LEC, 11:15-12:05 MWF, Elliott Hall N119, In Person Term Based; ; 4 cr.  
 57089 050 LEC, 18:10-20:35 T, Nicholson Hall 125, In Person Term Based; ; 4 cr.

**3001H Honors: Introduction to Linguistics**

(A-F only; Prereq: Honors student or instr consentSOCS)  
 59784 002 DIS, 12:20-13:10 T, Bruininks Hall 123, In Person Term Based; 4 cr.  
 59751 001 LEC, 12:20-13:10 MWF, Nicholson Hall 315, In Person Term Based; Jean-Philippe Marcotte; 4 cr.

**3052V Honors: Thesis**

(A-F only; Prereq: 3051WI)  
 48683 001 IND, 13:25-16:25 F, Nicholson Hall 345, In Person Term Based; Meets With: 001 LING 8005001 LING 8888W; Jean-Philippe Marcotte; 3 cr.

**3601 Historical Linguistics**

(Student Option; Prereq: 3001 or instr consent)  
 48211 001 LEC, 16:00-17:15 TTh, Nicholson Hall 145, In Person Term Based; Meets With: 001 LING 5601; John Harkness; 3 cr.

**4002 Linguistic Analysis**

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consent)  
 54241 001 LEC, 13:25-14:15 MWF, Room TBA, In Person Term Based; ; 3 cr.

**4201 Syntax I**

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consent)  
 54801 001 LEC, 9:45-11:00 TTh, Nicholson Hall 120, In Person Term Based; Hooi Ling Soh; 3 cr.

**4302W Phonology I**

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consentWI)  
 54802 001 LEC, 11:15-12:30 TTh, Nicholson Hall 335, In Person Term Based; Daniel Karvonen; 3 cr.

**4901W Major Project Seminar**

(S-N only; Prereq: Ling major, [jr or sr]WI)  
 47930 001 LEC, 13:25-16:25 F, Nicholson Hall 355, In Person Term Based; ; 3 cr.

**5202 Syntactic Theory II**

(Student Option; Prereq: 4201 or 5201)  
 59679 001 LEC, 13:00-14:15 TTh, Bruininks Hall 117, In Person Term Based; Hooi Ling Soh; 3 cr.

**5206 Linguistic Pragmatics**

(Student Option; Prereq: [4201 or 5201] or instr consent)  
 58040 001 DIS, 16:00-17:15 TTh, Peik Hall 335, In Person Term Based; Brian Reese; 3 cr.

**5303 Phonological Theory II**

(Student Option; Prereq: 4302W or 5302 or instr consent)  
 59678 001 LEC, 11:15-12:30 MW, Peik Hall 165, In Person Term Based; Anna Lubowicz; 3 cr.

**5462 Field Research in Spoken Language**

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consent)  
 55527 001 DIS, 14:30-15:45 TTh, Scott Hall 4, In Person Term Based; Polly Szatrowski; 3 cr.

**5601 Historical Linguistics**

(Student Option; Prereq: 3001 or 3011H or 5001)  
 52391 001 LEC, 16:00-17:15 TTh, Nicholson Hall 145, In Person Term Based; Meets With: 001 LING 3601; John Harkness; 3 cr.

**5801 Introduction to Computational Linguistics**

(Student Option; Prereq: [4201 or 5201] or programming experience or instr consent)  
 54818 001 LEC, 13:00-14:15 MW, Nicholson Hall 145, In Person Term Based; Brian Reese; 3 cr.

**5900 Topics in Linguistics**

(Student Option; )  
 60230 003 LEC, 13:00-14:15 MW, Bruininks Hall 420A, In Person Term Based; Meets With: 001 LING 8900; Michael Kac; 1-4 cr.  
 55528 002 LEC, 11:15-12:30 TTh, Keller Hall 2-260, In Person Term Based; Meets With: 003 ANTH 5980; Polly Szatrowski; 1-4 cr.  
 60693 004 LEC, 14:30-15:45 TTh, Elliott Hall N647, In Person Term Based; Sungok Hong; 1-4 cr.

**5993 Directed Study**

(Student Option; Prereq: instr consent, dept consent, college consent)  
 52116 004 IND, In Person Term Based; Brian Reese; 1-3 cr.  
 53023 005 IND, In Person Term Based; Claire Halpert; 1-3 cr.  
 58636 006 IND, In Person Term Based; Jean-Philippe Marcotte; 1-3 cr.  
 47929 001 IND, In Person Term Based; Jeanette Gundel; 1-3 cr.  
 50353 002 IND, In Person Term Based; Hooi Ling Soh; 1-3 cr.  
 52115 003 IND, In Person Term Based; Tim Hunter; 1-3 cr.

**8005 Research Paper Workshop**

(S-N or Audit; Prereq: [5105, 5202, 5205, [4302W or 5302]] or [instr consent, grad ling major])  
 52358 001 DIS, 13:25-16:25 F, Nicholson Hall 345, In Person Term Based; Meets With: 001 LING 3052V001 LING 8888W; Jean-Philippe Marcotte; 3 cr.

**8106 Field Methods in Linguistics II**

(Student Option; Prereq: 8105 (taken in same academic yr))  
 54819 001 FWK, 14:30-16:25 MW, Civil Engineering Bldg 214, In Person Term Based; Claire Halpert; 4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49134 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49230 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49334 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49421 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49539 001 IND, In Person Term Based; ; 1-24 cr.

### 8888W Thesis Credit Dissertation Seminar (No Grade Associated; Prereq: Doctoral student who has passed oral prelims)

55998 001 IND, 13:25-16:25 F, Nicholson Hall 345, In Person Term Based; Meets With: 001 LING 3052V001 LING 8005; Jean-Philippe Marcotte; 1-3 cr.

### 8900 Seminar: Topics in Linguistics

(Student Option; Prereq: instr consent)  
60247 001 LEC, 13:00-14:15 MW, Bruininks Hall 420A, In Person Term Based; Meets With: 003 LING 5900; Michael Kac; 3 cr.

### 8991 Independent Study

(Student Option; Prereq: instr consent)  
52070 004 IND, In Person Term Based; Claire Halpert; 1-4 cr.  
52068 002 IND, In Person Term Based; Hooi Ling Soh; 1-4 cr.  
52071 005 IND, In Person Term Based; Tim Hunter; 1-4 cr.  
52069 003 IND, In Person Term Based; Brian Reese; 1-4 cr.  
47793 001 IND, In Person Term Based; Jeanette Gundel; 1-4 cr.

## Management (MGMT)

### 1001 Contemporary Management

(A-F only; Prereq: Carlson School fr or soph)  
58039 003 LEC, 14:30-15:45 MW, Hanson Hall, Room 1-109, In Person Term Based; Brenda Lucy; 3 cr.  
54519 002 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-109, In Person Term Based; Susan Suchy; 3 cr.  
54518 001 LEC, 11:15-12:30 MW, Hanson Hall, Room 1-109, In Person Term Based; Susan Suchy; 3 cr.

### 1005 Corporate Responsibility and Ethics

(A-F only; Prereq: Carlson School studentCIV)  
58252 003 LEC, 14:30-15:45 MW, Hanson Hall, Room 1-107, In Person Term Based; Allison Brimeyer; 3 cr.  
58251 002 LEC, 11:15-12:30 MW, Hanson Hall, Room 1-107, In Person Term Based; Allison Brimeyer; 3 cr.  
58256 007 LEC, 14:30-15:45 TTh, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 3 cr.  
58253 004 LEC, 8:15- 9:30 TTh, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 3 cr.  
58255 006 LEC, 13:00-14:15 TTh, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 3 cr.  
58254 005 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 3 cr.  
58250 001 LEC, 9:45-11:00 MW, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 3 cr.

### 1005H Corporate Responsibility and Ethics

(A-F only; Prereq: Honors studentCIV)  
60365 001 LEC, 8:15- 9:30 MW, Carlson School of Mgmt L-126, In Person Term Based; Rand Park; 3 cr.

### 3001 Fundamentals of Management

(A-F or Audit; )  
55499 A94 LEC, Online & Distance Lrng (ODL); David Kaiser; 3 cr.  
56825 A95 LEC, Online & Distance Lrng (ODL); David Kaiser; 3 cr.  
54073 001 LEC, 11:15-12:30 WF, Hanson Hall, Room 1-106, In Person Term Based; Allison Brimeyer; 3 cr.  
56993 003 LEC, 14:30-15:45 MW, Hanson Hall, Room 1-106, In Person Term Based; Allison Brimeyer; 3 cr.  
48196 002 LEC, 8:15- 9:30 TTh, Hanson Hall, Room 1-106, In Person Term Based; Allison Brimeyer; 3 cr.  
48593 020 LEC, 17:45-20:15 Th, Hanson Hall, Room 1-104, In Person Term Based; Allison Brimeyer; 3 cr.

### 3004 Business Strategy

(A-F only; Prereq: CSOM, soph or jr)  
58257 005 LEC, 14:30-15:45 MW, Room TBA, In Person Term Based; Allison Brimeyer; 3 cr.  
54533 004 LEC, 8:15- 9:30 MW, Room TBA, In Person Term Based; Allison Brimeyer; 3 cr.  
54531 002 LEC, 9:45-11:00 WF, Room TBA, In Person Term Based; Allison Brimeyer; 3 cr.  
54530 001 LEC, 9:45-11:00 TTh, Room TBA, In Person Term Based; Allison Brimeyer; 3 cr.  
54532 003 LEC, 14:30-15:45 TTh, Room TBA, In Person Term Based; Allison Brimeyer; 3 cr.

### 3010 Introduction to Entrepreneurship

(A-F or Audit; )  
52949 002 LEC, 12:20-14:00 TTh, Hanson Hall, Room 1-105, In Person Term Based; Allison Brimeyer; 4 cr.

52406 003 LEC, 14:30-16:10 TTh, Hanson Hall, Room 1-105, In Person Term Based; Allison Brimeyer; 4 cr.  
52405 001 LEC, 10:10-11:50 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Allison Brimeyer; 4 cr.

### 3033W Business Communication

(A-F or Audit; Prereq: Fr composition, CSOM upper- div, at least 60 crWV)  
60072 011 LEC, 14:30-15:45 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
59740 001 LEC, 8:15- 9:30 MW, Carlson School of Mgmt 2-228, In Person Term Based; Holly Littlefield; 3 cr.  
56857 010 LEC, 13:00-14:15 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54527 008 LEC, 9:45-11:00 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54521 002 LEC, 9:45-11:00 MW, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
55359 009 LEC, 11:15-12:30 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54522 003 LEC, 11:15-12:30 MW, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54523 004 LEC, 13:00-14:15 MW, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54525 006 LEC, 14:30-15:45 MW, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54526 007 LEC, 16:00-17:15 MW, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54528 020 LEC, 17:45-20:15 T, Carlson School of Mgmt 2-228, In Person Term Based; Allison Brimeyer; 3 cr.  
54524 005 LEC, 13:00-14:15 MW, Carlson School of Mgmt 1-136, In Person Term Based; Allison Brimeyer; 3 cr.

### 3040 Understanding the International Environment of Firms: International Business

(A-F or Audit; Prereq: 1001 or 1001H or 3001)  
48307 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 2 cr.

### 3900 International Business

Communication  
(A-F only; GP)  
56639 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-107, In Person Term Based; Allison Brimeyer; 3 cr.

### 4000 Issues in Nonprofit Management

(A-F only; Prereq: Sr nonprofit major or instr consent)  
55434 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Allison Brimeyer; 4 cr.

### 4008 Entrepreneurial Management

(A-F only; Prereq: concurrent registration is required (or allowed) in [3010 or IBUS 3010])  
49801 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-213, In Person Term Based; Allison Brimeyer; 4 cr.

### 4050 Management of Innovation and Change

(A-F or Audit; Prereq: 1001, [3001 or 3010])  
52404 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Allison Brimeyer; 2 cr.

### 4100 Topics in Management

(A-F only; Prereq: instr consent)  
60765 001 LEC, 15:45-17:25 T, Room TBA, In Person Term Based; 2-4 cr.  
69035 002 LEC, In Person Term Based; Harry Sapienza; 2-4 cr.

### 4101 Independent Study in Strategic Management and Organization

(A-F or Audit; Prereq: instr consent or dept consent)  
53072 001 IND, In Person Term Based; Noelle French; 1-4 cr.

### 4170W New Business Feasibility and Planning

(A-F only; Prereq: 3010WI)  
55374 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 1-127, In Person Term Based; Allison Brimeyer; 4 cr.

### 4172 Entrepreneurship in Action II

(A-F only; Prereq: 4171)  
55375 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-127, In Person Term Based; Allison Brimeyer; 4 cr.

### 4500 Senior Seminar in International Business

(A-F only; Prereq: CSOM sr, completed semester abroad, IB major or minor)  
60379 001 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-127, In Person Term Based; Svtjetlana Madzar; 2 cr.

### 6004 Negotiation Strategies

(A-F only; Prereq: MBA student)  
60035 071 LEC, Completely Online; Brenda Lucy; 2 cr.  
50560 050 LEC, 8:00-17:00 Sa, Carlson School of Mgmt 1-143, In Person Term Based; Susan Suchy; 2 cr.  
49815 070 LEC, Completely Online; Susan Suchy; 2 cr.

### 6032 Strategic Alliances

(A-F only; Prereq: MBA student)  
52171 090 LEC, 12:30-15:50 Sa, Carlson School of Mgmt 1-132, In Person Term Based; Allison Brimeyer; 2 cr.

### 6033 Managing the Strategy Process

(A-F only; Prereq: MBA student)  
49352 090 LEC, 17:45-21:05 W, Hanson Hall, Room 1-103, In Person Term Based; Allison Brimeyer; 2 cr.

### 6034 Strategic Leadership

(A-F or Audit; Prereq: 6033, MBA student)  
51174 060 LEC, 17:45-21:05 T, Hanson Hall, Room 1-103, In Person Term Based; Allison Brimeyer; 2 cr.

### 6035 Complex and Cross-Cultural Negotiations

(A-F or Audit; Prereq: [6004, MBA student] or instr consent)  
53577 050 LEC, 8:00-17:00 F, Carlson School of Mgmt 1-132, In Person Term Based; Allison Brimeyer; 2 cr.

### 6040 International Strategy and Organization

(A-F only; Prereq: MBA student)  
60723 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Gurneeta Singh; 2 cr.  
54240 090 LEC, 17:45-21:05 T, Hanson Hall, Room 1-109, In Person Term Based; Allison Brimeyer; 2 cr.

### 6050 Management of Innovation and Change

(A-F only; Prereq: MBA student)  
55378 050 LEC, In Person Term Based; 2 cr.  
68869 051 LEC, 13:00-17:00 F, Carlson School of Mgmt 1-142, 13:00-17:00 F, Carlson School of Mgmt 1-142, 13:00-17:00 F, Carlson School of Mgmt 1-142, In Person Term Based; Allison Brimeyer; 2 cr.

### 6084 Management of Groups

(A-F only; )  
59841 070 LEC, Completely Online; Brenda Lucy; 2 cr.  
58258 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Brenda Lucy; 2 cr.  
55380 060 LEC, 17:45-21:05 T, Hanson Hall, Room 1-103, In Person Term Based; Susan Suchy; 2 cr.

### 6100 Topics in Management

(A-F only; Prereq: CSOM grad student or instr consent)  
60766 001 LEC, 15:45-17:25 T, Carlson School of Mgmt 2-219, In Person Term Based; 2-4 cr.  
60262 050 LEC, 8:00-17:00 M, Carlson School of Mgmt 1-132, 8:00-17:00 M, Carlson School of Mgmt 1-132, 8:00-17:00 Sa, Carlson School of Mgmt 1-132, In Person Term Based; Mary Zellmer-Bruhn; 2-4 cr.

### 6101 Independent Study in Strategic Management and Organization

(A-F or Audit; Prereq: instr consent or dept consent)  
53071 060 IND, In Person Term Based; 1-8 cr.

### 6305 The International Environment of Business

(A-F only; Prereq: MBA student)  
56858 090 LEC, 17:45-21:05 W, Hanson Hall, Room 1-107, In Person Term Based; Allison Brimeyer; 4 cr.

### 6402 Integrative Leadership: From Theory to Practice

(A-F only; Prereq: MBA student)  
57259 060 LEC, 18:00-20:45 M, Carlson School of Mgmt L-122, In Person Term Based; Meets With: 001 PA 5105001 OLPD 6402001 PUBH 6702001 LAW 6623; Katie White; 3 cr.

### 8101 Theory Building and Research Design (Student Option; Prereq: Business admin PhD student or instr consent)

53535 001 LEC, In Person Term Based; Allison Brimeyer; 4 cr.

### 8405 Topics in Strategy II

(A-F or Audit; Prereq: PhD student or instr consent)  
67299 001 LEC, In Person Term Based; Shaker Zahra; 2-4 cr.

**8892 Readings in Management Theory and Administration**

(Student Option; Prereq: Business admin PhD student or instr consent, adviser consent)  
49371 001 IND, In Person Term Based; 1-8 cr.

**8894 Graduate Research in Management Theory and Administration**

(Student Option; Prereq: Business admin PhD student or instr consent, adviser consent)  
49372 001 IND, In Person Term Based; 1-8 cr.

**Management of Technology (MOT)****4001 Leadership, Professionalism and Business Basics for Engineers**

(A-F only; )  
54304 001 LEC, 14:00-15:55 M, Keller Hall 2-260, In Person Term Based; Damian Damiani; 2 cr.

**4010 Management of Science and Technology in the Middle East, Global Seminar**

(A-F only; GP)  
57393 001 LEC, 15:35-17:30 T, Room TBA, In Person Term Based; 3 cr.

**5002 Creating Technological Innovation**

(A-F only; Prereq: Degree seeking or non-degree graduate students.)  
61186 001 LEC, 15:30-17:10 W, Keller Hall 2-260, In Person Term Based; Steve Webster; 2 cr.

**5003 Technological Business Planning Workshop**

(A-F only; Prereq: Degree seeking or non-degree graduate students. Student must also enroll for MOT 5001 or MOT 5002.)  
61187 001 LEC, 17:15-18:05 W, Keller Hall 2-260, In Person Term Based; Steve Webster; 1 cr.  
61187 001 LEC, 17:15-18:05 W, Keller Hall 2-260, In Person Term Based; Steve Webster; 1 cr.

**8111 Marketing Management for Technology-based Organizations**

(A-F or Audit; Prereq: Grad MOT major)  
53146 001 LEC, In Person Term Based; Tarun Soni; 2 cr.

**8113 Operations Management for Competitive Advantage**

(A-F or Audit; Prereq: Grad MOT major)  
49800 001 LEC, In Person Term Based; Kevin Linderman; 1.5 cr.

**8122 Financial Management for Technology-based Organizations**

(A-F or Audit; Prereq: Grad MOT major)  
48535 001 LEC, In Person Term Based; Dileep Rao; 2 cr.

**8213 Macroenvironment of Technology**

(A-F or Audit; Prereq: Grad MOT major)  
52640 001 LEC, In Person Term Based; Alfred Marcus; 2 cr.

**8214 Technology Foresight and Forecasting**

(A-F only; Prereq: Grad MOT major)  
53147 001 LEC, In Person Term Based; Damian Damiani; 2 cr.

**8221 Project and Knowledge Management**

(A-F or Audit; Prereq: Grad MOT major)  
48763 001 LEC, In Person Term Based; Karl Smith; 1.5 cr.

**8232 Managing Technological Innovation**

(A-F or Audit; )  
49856 001 LEC, In Person Term Based; Damian Damiani; 2 cr.

**8234 Capstone Project**

(A-F or Audit; Prereq: Completion of two semesters, grad MOT major)  
52639 001 LEC, In Person Term Based; Damian Damiani; 0.5-2 cr.

**8500 Innovation Leadership and Organizational Effectiveness**

(A-F only; Prereq: MOT major)  
60329 001 LEC, In Person Term Based; Kirk Froggatt; 0.5-2 cr.

**8921 Global Management of Technology**

(A-F only; Prereq: MOT student)  
59047 001 LEC, In Person Term Based; Damian Damiani; 0.5 cr.

**8940 Managing Intellectual Property**

(S-N only; Prereq: MOT grad student)  
49373 001 LEC, In Person Term Based; Damian Damiani; 0.5 cr.

**8950 International Management of Technology Project**

(A-F or Audit; Prereq: MOT grad student)  
49374 001 LEC, In Person Term Based; Damian Damiani; 1.5 cr.

**Managerial Communications (MCOM)****5510 Persuasive Writing in Business**

(A-F only; Prereq: MBA student)  
67282 070 LEC, Completely Online; 2 cr.

**5530 Strategies and Skills for Managerial Presentations**

(A-F only; Prereq: MBA student)  
50907 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-149, In Person Term Based; Allison Brimeyer; 2 cr.

**Manufacturing Operations Mgmt (MM)****3001 Manufacturing in a Global Economy**

(A-F or Audit; )  
54755 A94 LEC, Online & Distance Lrng (ODL); William King; 3 cr.

**4011 Design of Manufacturing Systems and Simulations**

(A-F or Audit; Prereq: 3001 or manufacturing experience)  
57378 001 LEC, 18:00-20:45 Th, Ford Hall 150, Partially Online; Michael Boone; 3 cr.

**4012 Manufacturing Processes and Technology**

(A-F or Audit; Prereq: 3001 or manufacturing experience)  
53529 A94 LEC, Online & Distance Lrng (ODL); Dave Edmonson; 3 cr.

**4039 Manufacturing Outsourcing Decisions**

(A-F or Audit; )  
58192 001 LEC, 18:00-21:35 M, Amundson Hall 116, Partially Online; Jack Sandahl; 2 cr.

**4045 Regulated Industry Compliance**

(A-F or Audit; Prereq: 3001 or manufacturing experience)  
55549 001 LEC, 18:00-20:45 T, Amundson Hall 116, Primarily Online; Lynn Cross; 3 cr.

**4201 Quality Engineering and Process Improvement**

(A-F or Audit; Prereq: Statistics, 45 cr)  
61463 A44 LEC, Online & Distance Lrng (ODL); 3 cr.

**4311 Sustainable Lean Manufacturing**

(A-F or Audit; Prereq: 3001, 45 cr)  
58420 001 LEC, 18:00-21:35 M, Amundson Hall 120, In Person Term Based; Lynn Cross; 2 cr.

**Manufacturing Technology (MT)****3111 Elements of Microelectronic Manufacturing**

(A-F only; Prereq: Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr)  
53149 001 LEC, 13:25-14:15 MWF, Mechanical Engineering 102, In Person Term Based; Stephen Campbell; 3 cr.

**3112 Elements of Micro and Nano Manufacturing Laboratory**

(A-F only; Prereq: concurrent registration is required (or allowed) in 3111)  
53156 004 LAB, 8:00-12:00 Th, Keller Hall 1-165, In Person Term Based; Gregory Cibuzar; 1 cr.  
53155 003 LAB, 8:00-12:00 W, Keller Hall 1-165, In Person Term Based; Gregory Cibuzar; 1 cr.  
53154 002 LAB, 8:00-12:00 T, Keller Hall 1-165, In Person Term Based; Gregory Cibuzar; 1 cr.  
61467 005 LAB, 8:00-12:00 F, Keller Hall 1-165, In Person Term Based; Gregory Cibuzar; 1 cr.  
61466 001 LAB, 8:00-12:00 M, Keller Hall 1-165, In Person Term Based; Gregory Cibuzar; 1 cr.

**3121 Thin Films Deposition**

(A-F only; Prereq: Physics, chemistry, [college algebra or precalculus], 45 cr)  
53150 001 LEC, 15:35-16:25 MWF, Mechanical Engineering 221, In Person Term Based; Nang Tran; 3 cr.

**3131 Introduction to Materials Characterization**

(A-F only; Prereq: Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr)  
53151 001 LEC, 14:30-15:20 MWF, Mechanical Engineering 102, In Person Term Based; Bing Luo; 4 cr.  
53801 005 LAB, 8:00-12:00 Th, Room TBA, In Person Term Based; Jason Myers; 4 cr.  
53800 004 LAB, 8:00-12:00 W, Room TBA, In Person Term Based; Jason Myers; 4 cr.  
53799 003 LAB, 8:00-12:00 T, Room TBA, In Person Term Based; Jason Myers; 4 cr.  
61470 006 LAB, 8:00-12:00 F, Room TBA, In Person Term Based; Jason Myers; 4 cr.  
61469 002 LAB, 8:00-12:00 M, Room TBA, In Person Term Based; Jason Myers; 4 cr.

**3141 Principles and Applications of Bionanotechnology**

(A-F only; Prereq: Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr)  
53152 001 LEC, 13:25-14:50 TTh, Gortner Laboratory 239, In Person Term Based; Ping Wang; 4 cr.  
53807 005 LAB, 8:00-12:00 Th, Room TBA, In Person Term Based; Frederick Schendel; 4 cr.  
53806 004 LAB, 8:00-12:00 W, Room TBA, In Person Term Based; Frederick Schendel; 4 cr.  
53805 003 LAB, 8:00-12:00 T, Room TBA, In Person Term Based; Frederick Schendel; 4 cr.  
61471 002 LAB, 8:00-12:00 M, Room TBA, In Person Term Based; Frederick Schendel; 4 cr.

**3142 Nanoparticle Technology and Engineering Laboratory**

(A-F only; Prereq: Completion of physics, chemistry, [college algebra or precalculus] with grade of at least C-, 45 sem cr)  
53159 004 LAB, 8:00-12:00 Th, Room TBA, In Person Term Based; Sang-Hyun Oh; 1 cr.  
53158 003 LAB, 8:00-12:00 W, Room TBA, In Person Term Based; Sang-Hyun Oh; 1 cr.  
53157 002 LAB, 8:00-12:00 T, Room TBA, In Person Term Based; Sang-Hyun Oh; 1 cr.  
61468 001 LAB, 8:00-12:00 M, Room TBA, In Person Term Based; Sang-Hyun Oh; 1 cr.

**Marketing (MKTG)****3001 Principles of Marketing**

(A-F or Audit; Prereq: ECON 1101)  
56370 007 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-104, In Person Term Based; Debra Basarich; 3 cr.  
49804 020 LEC, 17:45-20:15 M, Hanson Hall, Room 1-104, In Person Term Based; Debra Basarich; 3 cr.  
52531 006 LEC, 13:00-14:15 MW, Hanson Hall, Room 1-108, In Person Term Based; Debra Basarich; 3 cr.  
57262 A94 LEC, Online & Distance Lrng (ODL); Lydia Mackenzie; 3 cr.  
57380 A95 LEC, Online & Distance Lrng (ODL); Lydia Mackenzie; 3 cr.  
48193 001 LEC, 9:45-11:00 MW, Room TBA, In Person Term Based; Debra Basarich; 3 cr.  
48194 002 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; Debra Basarich; 3 cr.  
52530 004 LEC, 13:00-14:15 TTh, Room TBA, In Person Term Based; Debra Basarich; 3 cr.  
54516 005 LEC, 14:30-15:45 TTh, Room TBA, In Person Term Based; Debra Basarich; 3 cr.



48195 003 LEC, 14:30-15:45 MW, Room TBA, In Person Term Based; Debra Basarich; 3 cr.

### 3010 Marketing Research

(A-F or Audit; Prereq: 3001, [SCO 2550 or equiv statistics course])  
67300 004 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-224, In Person Term Based; Seth Werner; 4 cr.  
48281 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Debra Basarich; 4 cr.  
48282 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Debra Basarich; 4 cr.  
57654 003 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-224, In Person Term Based; Debra Basarich; 4 cr.

### 3040 Buyer Behavior

(A-F or Audit; Prereq: 3001, [3010 or concurrent registration is required (or allowed) in 3010])  
68044 003 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Alison Xu; 4 cr.  
48284 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Debra Basarich; 4 cr.  
48283 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Debra Basarich; 4 cr.

### 4030 Sales Management

(A-F or Audit; Prereq: 3001, 3010, 3040)  
52967 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-142, In Person Term Based; Debra Basarich; 4 cr.  
49814 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-147, In Person Term Based; Debra Basarich; 4 cr.

### 4050 Integrated Marketing Communications

(A-F or Audit; Prereq: 3001, 3010, 3040)  
48596 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Debra Basarich; 4 cr.  
48597 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Debra Basarich; 4 cr.

### 4060 Marketing Channels

(A-F or Audit; Prereq: 3001, 3010, 3040)  
55388 001 LEC, 8:00-9:40 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Debra Basarich; 4 cr.  
55389 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Debra Basarich; 4 cr.

### 4080W Marketing Strategy

(A-F or Audit; Prereq: 3001, 3010, 3040, 12 cr in marketing, srWI)  
48285 001 DIS, 8:00-9:40 MW, Carlson School of Mgmt 1-127, In Person Term Based; Debra Basarich; 4 cr.  
55391 003 DIS, 9:55-11:35 MW, Carlson School of Mgmt 1-127, In Person Term Based; Debra Basarich; 4 cr.  
55390 002 DIS, 13:45-15:25 MW, Carlson School of Mgmt 1-127, In Person Term Based; Debra Basarich; 4 cr.

### 4082W Brand Management

(A-F only; Prereq: 3001, 3010, 3040W)  
58259 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-114, In Person Term Based; Debra Basarich; 4 cr.

### 4092H Globalization, Culture, and Brands

(A-F only; )  
59557 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt L-118, In Person Term Based; Debra Basarich; 2 cr.

### 6051 Marketing Research

(A-F only; Prereq: MBA 6210, MBA student)  
48323 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Debra Basarich; 4 cr.

### 6055 Buyer Behavior

(A-F only; Prereq: MBA 6210, MBA student)  
55039 060 LEC, 17:45-21:05 W, Hanson Hall, Room 1-111, In Person Term Based; Debra Basarich; 4 cr.  
59744 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Tiffany Meeks; 4 cr.

### 6073 Technology Marketing

(A-F only; Prereq: [MBA 6210 or equiv], MBA student] or dept consent)  
50226 060 LEC, 17:45-21:05 T, Carlson School of Mgmt L-114, In Person Term Based; Debra Basarich; 4 cr.

### 6075 Pricing Strategy

(A-F only; Prereq: MBA 6210, MBA student)  
52362 060 LEC, 17:45-21:05 T, Hanson Hall, Room 1-107, In Person Term Based; Debra Basarich; 4 cr.

### 6082 Brand Management

(A-F only; Prereq: MBA 6210, MBA student)

50227 001 LEC, 9:55-11:35 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Debra Basarich; 4 cr.  
50228 090 LEC, 17:45-21:05 M, Hanson Hall, Room 1-107, In Person Term Based; Debra Basarich; 4 cr.

### 6088 Strategic Marketing

(A-F only; Prereq: MBA 6210, MBA student)  
51243 060 LEC, 17:45-21:05 M, Hanson Hall, Room 1-109, In Person Term Based; Debra Basarich; 2 cr.

### 6090 Surprisingly Irrational Consumer Behavior

(A-F only; Prereq: MBA 6210, MBA student)  
59801 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Tiffany Meeks; 1-4 cr.

### 8810 Consumer Behavior Special Topics

(A-F or Audit; Prereq: Doctoral student or [master's program student, instr consent])  
67301 001 LEC, In Person Term Based; Tiffany Meeks; 2 cr.

### 8813 Consumer Judgment and Decision Making I

(A-F or Audit; Prereq: Doctoral student or [master's program student, instr consent])  
59745 001 LEC, In Person Term Based; Tiffany Meeks; 2 cr.

### 8814 Consumer Judgment and Decision Making II

(A-F or Audit; Prereq: Doctoral student or [master's program student, instr consent])  
59746 001 LEC, In Person Term Based; Tiffany Meeks; 2 cr.

### 8831 Seminar: Inter-Organizational Relations

(Student Option; Prereq: MBA 6210 or equiv, business admin PhD student or instr consent)  
59747 001 LEC, In Person Term Based; Tiffany Meeks; 4 cr.

### 8892 Readings in Marketing

(Student Option; Prereq: MBA 6210 or equiv, business admin PhD student or instr consent)  
46807 001 IND, In Person Term Based; Debra Basarich; 1-8 cr.

### 8894 Graduate Research in Marketing

(Student Option; Prereq: MBA 6210 or equiv, business admin PhD student or instr consent)  
46808 001 IND, In Person Term Based; Debra Basarich; 1-8 cr.

## Master of Business Admin (MBA)

### 5200 Directed Studies for Curricular Practical Training (International Full-Time MBA Students Only)

(S-N only; Prereq: International FT MBA student with approval from the MBA Office)  
48526 001 FWK, 11:50-13:30 MTWTh, Carlson School of Mgmt 1-123, In Person Term Based; Christina Wiencke; 1-3 cr.

### 6030 Financial Accounting

(A-F only; Prereq: MBA Student)  
58576 090 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-123, In Person Term Based; Frank Beil; 3 cr.  
48524 091 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-123, In Person Term Based; Deb Cross; 3 cr.

### 6035 Managerial Accounting

(A-F only; Prereq: 6030, 6230, MBA student)  
48525 090 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-123, In Person Term Based; Deb Cross; 3 cr.

### 6110 Leading Others

(A-F only; )  
55490 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt 1-147, In Person Term Based; Susan Suchy; 2 cr.  
55491 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-147, In Person Term Based; Susan Suchy; 2 cr.  
56934 091 LEC, 8:00-11:20 Sa, Hanson Hall, Room 1-105, In Person Term Based; Susan Suchy; 2 cr.  
56933 090 LEC, 17:45-21:05 M, Hanson Hall, Room 1-105, In Person Term Based; Susan Suchy; 2 cr.

### 6120 Data Analysis and Statistics for Managers

(A-F only; Prereq: MBA student)

48301 090 LEC, 8:00-11:20 Sa, Hanson Hall, Room 1-103, In Person Term Based; Vicki Lund; 3 cr.  
53786 070 LEC, 8:00-11:20 Sa, Hanson Hall, Room 1-109, Primarily Online; Vicki Lund; 3 cr.

### 6140 Managerial Economics

(A-F only; Prereq: MBA student)  
55493 001 LEC, Completely Online; Allison Brimeyer; 0-2 cr.  
55492 002 LEC, Completely Online; Allison Brimeyer; 0-2 cr.  
56892 070 LEC, 17:45-21:05 M, ONLINE, Completely Online; Allison Brimeyer; 0-2 cr.

### 6210 Marketing Management

(A-F only; Prereq: MBA student)  
68374 070 LEC, Completely Online; Julia Van Etten; 3 cr.  
48322 091 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-147, In Person Term Based; Debra Basarich; 3 cr.  
48321 090 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-147, In Person Term Based; Debra Basarich; 3 cr.

### 6220 Operations Management

(A-F only; Prereq: MBA student)  
48303 090 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-147, In Person Term Based; Vicki Lund; 3 cr.  
51241 091 LEC, 17:45-21:05 T, Hanson Hall, Room 1-106, In Person Term Based; Vicki Lund; 3 cr.

### 6230 Financial Management

(A-F only; Prereq: 6030, MBA student)  
57621 091 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-213, In Person Term Based; Irene Kawalec-Menasco; 3 cr.  
48311 090 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-213, In Person Term Based; Irene Kawalec-Menasco; 3 cr.

### 6235 Managerial Accounting

(A-F only; Prereq: MBA student)  
55354 002 LEC, In Person Term Based; 2 cr.  
55355 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-147, In Person Term Based; Paul White; 2 cr.

### 6240 Competing in a Data-Driven Digital Age

(A-F only; Prereq: FT MBA student)  
55496 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt 1-123, In Person Term Based; Gordon Burch; 2 cr.  
55495 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-123, In Person Term Based; Gordon Burch; 2 cr.

### 6300 Strategic Management

(A-F only; Prereq: MBA student)  
69094 070 LEC, Completely Online; Alfred Marcus; 3 cr.  
48252 091 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-147, In Person Term Based; Allison Brimeyer; 3 cr.  
48251 090 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 3 cr.

### 6315 The Ethical Environment of Business

(A-F only; Prereq: MBA student)  
56368 092 LEC, 8:00-11:20 Sa, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 2 cr.  
57622 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-233, In Person Term Based; Allison Brimeyer; 2 cr.  
57274 001 LEC, 9:55-11:35 MW, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 2 cr.  
48255 091 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 2 cr.  
48254 090 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-215, In Person Term Based; Allison Brimeyer; 2 cr.

### 6501 Carlson Funds Enterprise: Growth

(Student Option; Prereq: MBA student or [applied to or accepted in] spring of 1st yr; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended)  
53047 001 FWK, 8:00-9:40 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Irene Kawalec-Menasco; 2-4 cr.  
53048 003 FWK, 8:00-9:40 TTh, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 2-4 cr.

### 6502 Carlson Funds Enterprise: Fixed Income

(Student Option; Prereq: [Applied to or accepted in] spring-A of 1st yr to begin in spring-B; [6031, ACCT 6100, ACCT 6160, MBA student, emphasis in finance mgmt] recommended)  
53049 001 FWK, 8:00-9:40 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Irene Kawalec-Menasco; 2-4 cr.  
53050 003 FWK, 8:00-9:40 TTh, Room TBA, In Person Term Based; Irene Kawalec-Menasco; 2-4 cr.

**6503 Carlson Ventures Enterprise**

(Student Option No Audit; Prereq: MBA student, approved application, interview)  
50783 001 FWK, 8:00- 9:40 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Noelle French; 2-4 cr.  
51721 003 FWK, 8:00- 9:40 TTh, Carlson School of Mgmt 1-136, In Person Term Based; Allison Brimeyer; 2-4 cr.

**6504 Carlson Consulting Enterprise**

(Student Option No Audit; Prereq: MBA student, approved application, interview)  
51722 003 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Vicki Lund; 2-4 cr.  
50784 001 FWK, 8:00- 9:40 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Vicki Lund; 2-4 cr.

**6505 Carlson Brand Enterprise**

(Student Option No Audit; Prereq: MBA student, approved application, interview)  
53538 001 FWK, 8:00- 9:40 TTh, Carlson School of Mgmt 1-149, In Person Term Based; Debra Basarich; 2-4 cr.  
53539 003 FWK, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Debra Basarich; 2-4 cr.

## Master of Business Taxation (MBT)

**5220 Tax Research, Communication, and Practice**

(A-F or Audit; Prereq: ACCT 5135, MBT student)  
55358 200 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-127, In Person Term Based; Paula Fenstad; 4 cr.

**5230 Corporate Taxation I**

(A-F or Audit; Prereq: ACCT 5135, MBT student)  
50115 200 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-143, In Person Term Based; Paula Fenstad; 2 cr.

**5323 Mergers and Acquisitions I**

(A-F or Audit; Prereq: 5230, MBT student)  
56487 200 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-135, In Person Term Based; Paula Fenstad; 2 cr.

**5340 Taxation of Partners and Partnerships**

(A-F or Audit; Prereq: Acct 5135, MBT student)  
56595 200 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-132, In Person Term Based; Paula Fenstad; 2 cr.

**5346 ASC 740 Computations and Analysis**

(A-F or Audit; Prereq: 5230, MBT student)  
56369 200 LEC, 17:45-21:05 Th, Carlson School of Mgmt 2-224, In Person Term Based; Paula Fenstad; 2 cr.

**5348 Advanced ASC 740 Concepts**

(A-F or Audit; Prereq: 5346, MBT student)  
67280 200 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-233, In Person Term Based; 2 cr.

**5360 State and Local Taxation**

(A-F or Audit; Prereq: Acct 5135, MBT student)  
48495 200 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-135, In Person Term Based; Paula Fenstad; 2 cr.

**5381 Tax Aspects of International Business II**

(A-F or Audit; Prereq: 5380, MBT student)  
67281 200 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-233, In Person Term Based; 2 cr.

**5420 Current Topics in Taxation**

(A-F or Audit; Prereq: ACCT 5135, MBT student)  
52900 200 IND, In Person Term Based; Paula Fenstad; 1-4 cr.

**5500 Business, Government, and****Economic Tax Policy**

(A-F only; Prereq: 5230, MBT student)  
54764 200 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-136, In Person Term Based; Paula Fenstad; 2 cr.

## Master of Development Practice (MDP)

**5002 Research Methods for Sustainable Livelihoods**

(A-F only; Prereq: MDP grad student or instr consent)  
56602 001 DIS, In Person Term Based; ; 4 cr.

**5003 Field Study Pre-Departure Seminar**

(Student Option No Audit; Prereq: MDP grad student or instr consent)  
56815 001 DIS, In Person Term Based; Christopher Johnstone; 1 cr.

**5200 Capstone Workshop in Development Practice**

(A-F or Audit; Prereq: MDP grad student or instr consent)  
59564 001 LEC, In Person Term Based; 3 cr.

## Masters of Business Analytics (MSBA)

**6120 Introduction to Statistics for Data Scientists**

(A-F only; Prereq: MSBA student)  
68707 090 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-149, In Person Term Based; Edward McFowland; 3 cr.

**6320 Data Management, Databases, and Data Warehousing**

(A-F only; Prereq: MSBA student)  
67296 090 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-149, In Person Term Based; Ken Reilly; 3 cr.

**6430 Advanced Issues in Business Analytics**

(A-F only; Prereq: MSBA student)  
60826 001 LEC, 13:30-16:00 MW, Carlson School of Mgmt 1-149, In Person Term Based; Akhmed Umyarov; 3 cr.

**6440 Data-Driven Experimentation and Measurement**

(A-F only; Prereq: MSBA student)  
60827 001 LEC, 9:45-12:15 MW, Carlson School of Mgmt 1-114, In Person Term Based; Maria Ana Vitorino; 3 cr.

**6450 Modeling and Heuristics for Decision Making and Support**

(A-F only; Prereq: MSBA student)  
60828 001 LEC, 13:30-16:00 MW, Carlson School of Mgmt 1-149, In Person Term Based; Akhmed Umyarov; 3 cr.

**6510 Business Analytics Experiential Learning**

(A-F only; )  
60833 001 FWK, 9:00-12:00 TTh, Carlson School of Mgmt 1-114, In Person Term Based; Gediminas Adomavicius; 6 cr.

## Materials Science (MATS)

**2001 Introduction to the Science of Engineering Materials**

(A-F only; Prereq: CHEM 1061, CHEM 1065, [MATH 1272 or MATH 1372], PHYS 1301W, CSE student)  
46891 001 LEC, 10:10-11:00 MWF, Rapson Hall 100, In Person Term Based; William Gerberich; 3 cr.

**2002 Introduction to the Science of Engineering Materials Laboratory**

(A-F only; Prereq: [2001 or concurrent registration is required (or allowed) in 2001], IT student)  
53244 004 LAB, 14:30-17:30 F, Amundson Hall B30, In Person Term Based; Jeffrey Schott; 1 cr.  
53243 003 LAB, 14:30-17:30 Th, Amundson Hall B30, In Person Term Based; Jeffrey Schott; 1 cr.  
53242 002 LAB, 14:30-17:30 T, Amundson Hall B30, In Person Term Based; Jeffrey Schott; 1 cr.  
53241 001 LAB, 14:30-17:30 M, Amundson Hall B30, In Person Term Based; Jeffrey Schott; 1 cr.

**3002 Mass Transport and Kinetics**

(A-F or Audit; Prereq: 4001, CE 3101, [MATH 2373 or equiv], upper div MatS)  
59586 003 DIS, 14:30-15:20 W, Amundson Hall 156, In Person Term Based; Bharat Jalan; 3 cr.  
52806 002 DIS, 14:30-15:20 M, Amundson Hall 156, In Person Term Based; Bharat Jalan; 3 cr.  
46911 001 LEC, 8:00- 8:50 MWF, Akerman Hall 319, In Person Term Based; Julie Prince; 3 cr.

**3011 Introduction to Materials Science and Engineering**

(Student Option; Prereq: CHEM 1061, CHEM 1065, [MATH 1272 or MATH 1372], PHYS 1302, CSE student)  
55859 006 DIS, 12:20-13:10 T, Amundson Hall 156, In Person Term Based; Eray Aydil; 3 cr.  
49563 001 LEC, 14:30-15:20 MWF, Fraser Hall 101, In Person Term Based; Julie Prince; 3 cr.  
49564 002 DIS, 8:00- 8:50 T, Amundson Hall 156, In Person Term Based; Julie Prince; 3 cr.  
49565 003 DIS, 10:10-11:00 T, Amundson Hall 162, In Person Term Based; Julie Prince; 3 cr.  
49692 005 DIS, 12:20-13:10 T, Amundson Hall 162, In Person Term Based; Julie Prince; 3 cr.

**3041 Industrial Assignment I**

(A-F only; Prereq: MatS upper div, completion of required courses in MatS program through fall sem of 3rd yr, GPA of at least 2.80, regis in co-op program)  
49940 001 FWK, In Person Term Based; Lorraine Francis; 2 cr.

**3851W Materials Properties Lab**

(A-F or Audit; Prereq: [3801, 4013, MatS upper div] or dept consent(WI))  
59587 004 LAB, 11:15-12:15 Th, Amundson Hall B30, In Person Term Based; Chris Leighton; 4 cr.  
53141 003 LAB, 8:00-11:00 Th, Amundson Hall B30B, In Person Term Based; Chris Leighton; 4 cr.  
49557 001 LEC, 15:35-16:25 TTh, Amundson Hall B75, In Person Term Based; Julie Prince; 4 cr.  
49558 002 LAB, 8:00-11:00 T, Amundson Hall B30B, In Person Term Based; Julie Prince; 4 cr.

**4041 Industrial Assignment II**

(A-F only; Prereq: 3041, GPA of at least 2.80, registration in co-op program)  
49941 001 FWK, In Person Term Based; Lorraine Francis; 2 cr.

**4214 Polymers**

(A-F or Audit; Prereq: [3011, [4001 or CHEN 4101], [upper div MatS or ChEn]] or instr consent)  
54299 001 LEC, 11:15-12:05 MWF, Bruininks Hall 230, In Person Term Based; Meets With: 001 CHEN 4214001 CHEM 4214; Xiang Cheng; 3 cr.

**4223W Polymer Laboratory**

(Student Option; Prereq: 4214 or CHEM 4214 or CHEM 4221 or MATS 4214 or instr consent(WI))  
51196 001 LEC, 15:35-16:25 M, Smith Hall 100, In Person Term Based; Meets With: 001 CHEM 4223W001 CHEM 4223W; Theresa Reineke; 2 cr.  
51628 002 LAB, 8:00-11:50 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 002 CHEM 4223W002 CHEM 4223W; Theresa Reineke; 2 cr.  
51629 003 LAB, 8:00-11:50 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 003 CHEM 4223W003 CHEM 4223W; Theresa Reineke; 2 cr.

**4301W Materials Processing**

(A-F only; Prereq: 4212, [4214 or concurrent registration is required (or allowed) in 4214] Upper Div MatSWI)  
56392 005 LAB, 11:15-13:10 Th, Amundson Hall B30B, In Person Term Based; C Frisbie; 4 cr.  
46964 001 LEC, 13:25-14:15 MWF, Akerman Hall 319, In Person Term Based; Julie Prince; 4 cr.  
46966 003 LAB, 8:00- 9:55 W, Amundson Hall B30, In Person Term Based; Julie Prince; 4 cr.  
46965 002 LAB, 11:15-13:10 T, Amundson Hall B30, In Person Term Based; Julie Prince; 4 cr.  
50523 004 LAB, 14:30-16:25 W, Amundson Hall B30B, In Person Term Based; Julie Prince; 4 cr.

**4400 Senior Design Project**

(A-F only; Prereq: Sr MatS major)  
46967 001 LEC, 10:10-11:00 MTWF, Amundson Hall 104, In Person Term Based; Chris Leighton; 3 cr.

**4591 Independent Study in Materials Science**

(Student Option No Audit; Prereq: Upper div mat sci)  
46968 001 IND, In Person Term Based; Chris Leighton; 1-3 cr.

**4593 Directed Study in Materials Science**

(A-F only; Prereq: upper div MatS)  
46969 001 IND, In Person Term Based; Chris Leighton; 1-4 cr.

**4594 Directed Research in Materials Science**

(Student Option No Audit; Prereq: Upper div mat sci)  
46970 001 IND, In Person Term Based; Chris Leighton; 1-3 cr.

**5517 Electron Microscopy**

(A-F or Audit; )

60248 001 LEC, 16:40-17:30 MWF, Amundson Hall 120, In Person Term Based; Laura Ericksen; 3 cr.

**5531 Electrochemical Engineering**

(Student Option; Prereq: MatS 3011 or instr consent, upper div CSE or grad)

55577 001 LEC, 14:30-15:20 MWF, Amundson Hall 104, In Person Term Based; Meets With: 001 CHEN 5531; William Smyrl; 3 cr.

**8003 Electronic Properties**

(A-F or Audit; Prereq: instr consent)

47875 001 LEC, 9:05-9:55 F, Amundson Hall 156, 8:00-9:55 MW, Amundson Hall 156, In Person Term Based; Chris Leighton; 3 cr.

**8004 Mechanical Properties**

(A-F or Audit; )

47876 001 LEC, 10:10-12:05 TTh, Amundson Hall 156, In Person Term Based; Julie Prince; 3 cr.

**8211 Physical Chemistry of Polymers**

(Student Option; Prereq: Undergrad physical chem or instr consent)

51197 001 LEC, 14:30-15:45 TTh, Bruininks Hall 230, In Person Term Based; Meets With: 001 CHEM 8211; Russell Holmes; 4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49136 001 IND, In Person Term Based; Russell Holmes; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49231 001 IND, In Person Term Based; Russell Holmes; 1 cr.

**8555 MatS Teaching Practicum**

(S-N only; Prereq: Grad MATS or ChEn major and DGS permission)

68500 001 FWK, In Person Term Based; Russell Holmes; 1-6 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49335 001 IND, In Person Term Based; Russell Holmes; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49422 001 IND, In Person Term Based; Russell Holmes; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49540 001 IND, In Person Term Based; Russell Holmes; 1-24 cr.

**8993 Directed Study**

(Student Option; )

48490 001 LEC, In Person Term Based; Russell Holmes; 1-12 cr.

**8994 Directed Research**

(Student Option; )

48492 001 LEC, In Person Term Based; Russell Holmes; 1-12 cr.

**8995 Special Topics**

(A-F or Audit; )

48496 001 LEC, In Person Term Based; 1-4 cr.

46141 011 DIS, 10:10-11:00 Th, Vincent Hall 364, In Person Term Based; Carla Claussen; 3 cr.

**1031 College Algebra and Probability**

(Student Option; Prereq: 3 yrs high school math or satisfactory score on placement exam or grade of at least C- in [PSTL 731 or PSTL 732]MATH)

46464 002 LEC, 18:00-20:05 TTh, Vincent Hall 6, In Person Term Based; ; 3 cr.

46463 001 LEC, 18:00-20:05 MW, Ford Hall B80, In Person Term Based; Judith Franklin; 3 cr.

50429 B04 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

50305 C04 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

50306 D04 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

50307 E04 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

56048 010 LEC, 11:15-12:05 MWF, Smith Hall 231, In Person Term Based; Carla Claussen; 3 cr.

50521 020 LEC, 14:30-15:20 MWF, Smith Hall 231, In Person Term Based; Carla Claussen; 3 cr.

46465 021 DIS, 14:30-15:20 Tu, Bruininks Hall 123, 14:30-15:20 T, Bruininks Hall 117, In Person Term Based; Carla Claussen; 3 cr.

46467 023 DIS, 15:35-16:25 Th, Vincent Hall 209, 15:35-16:25 T, Bruininks Hall 123, In Person Term Based; Carla Claussen; 3 cr.

46466 022 DIS, 14:30-15:20 Th, Bruininks Hall 117, 14:30-15:20 Tu, Bruininks Hall 144, In Person Term Based; Carla Claussen; 3 cr.

56050 012 DIS, 11:15-12:05 Th, Vincent Hall 20, 11:15-12:05 T, Vincent Hall 2, In Person Term Based; Carla Claussen; 3 cr.

56049 011 DIS, 11:15-12:05 Th, Vincent Hall 311, 11:15-12:05 T, Vincent Hall 20, In Person Term Based; Carla Claussen; 3 cr.

56051 013 DIS, 12:20-13:10 TTh, Vincent Hall 20, In Person Term Based; Carla Claussen; 3 cr.

**1038 College Algebra and Probability**

Submodule

(A-F or Audit; Prereq: 1051 or 1151 or 1155)

56054 001 LEC, In Person Term Based; 1 cr.

**1051 Precalculus I**

(Student Option; Prereq: 3 yrs of high school math or satisfactory score on placement test or grade of at least C- in [PSTL 731 or PSTL 732]MATH)

48220 014 DIS, 15:35-16:25 Th, Vincent Hall 206, 15:35-16:25 T, Vincent Hall 207, In Person Term Based; Carla Claussen; 3 cr.

50520 010 LEC, 14:30-15:20 MWF, Amundson Hall B75, In Person Term Based; Douglas Robertson; 3 cr.

51124 B02 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51125 C02 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51126 D02 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51127 E02 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

48218 012 DIS, 14:30-15:20 Th, Vincent Hall 20, 14:30-15:20 T, Vincent Hall 211, In Person Term Based; Carla Claussen; 3 cr.

48217 011 DIS, 14:30-15:20 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

48219 013 DIS, 15:35-16:25 Th, Vincent Hall 207, 15:35-16:25 T, Vincent Hall 209, In Person Term Based; Carla Claussen; 3 cr.

46149 023 DIS, 15:35-16:25 TTh, Appleby Hall 226, In Person Term Based; Carla Claussen; 4 cr.

46148 022 DIS, 14:30-15:20 TTh, Ford Hall 115, In Person Term Based; Carla Claussen; 4 cr.

46147 021 DIS, 14:30-15:20 TTh, Ford Hall B80, In Person Term Based; Carla Claussen; 4 cr.

**1151 Precalculus II**

(Student Option; Prereq: Satisfactory score on placement exam or grade of at least C- in [1031 or 1051]MATH)

48222 010 LEC, 9:05-9:55 MWF, Bruininks Hall 330, In Person Term Based; ; 3 cr.

48227 020 LEC, 14:30-15:20 MWF, Bruininks Hall 330, In Person Term Based; ; 3 cr.

49074 002 LEC, 18:00-20:05 TTh, Vincent Hall 206, In Person Term Based; ; 3 cr.

48221 001 LEC, 18:00-20:05 MW, Vincent Hall 206, In Person Term Based; ; 3 cr.

51128 B03 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51129 C03 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51130 D03 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

51131 E03 LEC, Online &amp; Distance Lrng (ODL); Pat Kinney; 3 cr.

48224 012 DIS, 9:05-9:55 Th, Bruininks Hall 530A, In Person Term Based; Carla Claussen; 3 cr.

48225 013 DIS, 10:10-11:00 Th, Bruininks Hall 530A, In Person Term Based; Carla Claussen; 3 cr.

48228 021 DIS, 14:30-15:20 Th, Bruininks Hall 530A, In Person Term Based; Carla Claussen; 3 cr.

48231 024 DIS, 15:35-16:25 Th, Bruininks Hall 530A, In Person Term Based; Carla Claussen; 3 cr.

48223 011 DIS, 9:05-9:55 Th, Bruininks Hall 530B, In Person Term Based; Carla Claussen; 3 cr.

48226 014 DIS, 10:10-11:00 Th, Bruininks Hall 530B, In Person Term Based; Carla Claussen; 3 cr.

48229 022 DIS, 14:30-15:20 Th, Bruininks Hall 530B, In Person Term Based; Carla Claussen; 3 cr.

48230 023 DIS, 15:35-16:25 Th, Bruininks Hall 530B, In Person Term Based; Carla Claussen; 3 cr.

**1271 Calculus I**

(Student Option; Prereq: 4 yrs high school math including trig or satisfactory score on placement test or grade of at least C- in [1151 or 1155]MATH)

58383 050 LEC, 15:35-16:25 MWF, Amundson Hall B75, In Person Term Based; ; 4 cr.

46153 010 LEC, 8:00-8:50 MWF, Vincent Hall 16, In Person Term Based; ; 4 cr.

46152 002 LEC, 18:00-20:05 TTh, Vincent Hall 113, In Person Term Based; ; 4 cr.

46151 001 LEC, 18:00-20:05 MW, Vincent Hall 6, In Person Term Based; ; 4 cr.

46163 040 LEC, 13:25-14:15 MWF, Fraser Hall 102, In Person Term Based; Christine Berkesch Zamaere; 4 cr.

46158 030 LEC, 11:15-12:05 MWF, Smith Hall 100, In Person Term Based; Christine Berkesch Zamaere; 4 cr.

50432 B05 LEC, Online &amp; Distance Lrng (ODL); Jennie Nash; 4 cr.

50433 C05 LEC, Online &amp; Distance Lrng (ODL); Jennie Nash; 4 cr.

48666 D05 LEC, Online &amp; Distance Lrng (ODL); Jennie Nash; 4 cr.

48667 E05 LEC, Online &amp; Distance Lrng (ODL); Jennie Nash; 4 cr.

58387 054 DIS, 16:40-17:30 TTh, Vincent Hall 20, In Person Term Based; Carla Claussen; 4 cr.

58386 053 DIS, 16:40-17:30 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.

56056 045 DIS, 14:30-15:20 TTh, Akerman Hall 317, In Person Term Based; Carla Claussen; 4 cr.

46167 044 DIS, 14:30-15:20 TTh, Akerman Hall 327, In Person Term Based; Carla Claussen; 4 cr.

58384 051 DIS, 15:35-16:25 TTh, Akerman Hall 327, In Person Term Based; Carla Claussen; 4 cr.

46160 032 DIS, 11:15-12:05 TTh, Amundson Hall 120, In Person Term Based; Carla Claussen; 4 cr.

46159 031 DIS, 11:15-12:05 TTh, Amundson Hall 124, In Person Term Based; Carla Claussen; 4 cr.

46162 034 DIS, 12:20-13:10 TTh, Appleby Hall 3, In Person Term Based; Carla Claussen; 4 cr.

46165 042 DIS, 13:25-14:15 TTh, Appleby Hall 3, In Person Term Based; Carla Claussen; 4 cr.

58385 052 DIS, 15:35-16:25 TTh, Appleby Hall 204, In Person Term Based; Carla Claussen; 4 cr.

46161 033 DIS, 11:15-12:05 TTh, Appleby Hall 303, In Person Term Based; Carla Claussen; 4 cr.

46164 041 DIS, 13:25-14:15 TTh, Appleby Hall 303, In Person Term Based; Carla Claussen; 4 cr.

46156 013 DIS, 9:05-9:55 TTh, Appleby Hall 319, In Person Term Based; Carla Claussen; 4 cr.

54620 036 DIS, 12:20-13:10 TTh, Ford Hall 115, In Person Term Based; Carla Claussen; 4 cr.

**Mathematics (MATH)****1001 Excursions in Mathematics**

(Student Option; Prereq: 3 yrs high school math or placement exam or [grade of at least C- in PSTL 731 or 732]MATH)

46140 010 LEC, 11:15-12:05 MWF, Ford Hall 150, In Person Term Based; Randolph Knoche; 3 cr.

46142 012 DIS, 11:15-12:05 Th, Vincent Hall 301, In Person Term Based; Carla Claussen; 3 cr.

52872 035 DIS, 12:20-13:10 TTh, Ford Hall 130, In Person Term Based; Carla Claussen; 4 cr.  
 46157 014 DIS, 9:05- 9:55 TTh, Ford Hall 150, In Person Term Based; Carla Claussen; 4 cr.  
 46166 043 DIS, 13:25-14:15 TTh, Ford Hall B15, In Person Term Based; Carla Claussen; 4 cr.  
 46155 012 DIS, 8:00- 8:50 TTh, Vincent Hall 113, In Person Term Based; Carla Claussen; 4 cr.  
 46154 011 DIS, 8:00- 8:50 TTh, Vincent Hall 211, In Person Term Based; Carla Claussen; 4 cr.

### 1272 Calculus II

(Student Option; Prereq: [1271 or equiv] with grade of at least C-)

56896 045 DIS, In Person Term Based; 4 cr.  
 46179 040 LEC, 15:35-16:25 MWF, Fraser Hall 102, In Person Term Based; ; 4 cr.  
 46174 030 LEC, 12:20-13:10 MWF, Rapson Hall 100, In Person Term Based; ; 4 cr.  
 46168 001 LEC, 18:00-20:05 MW, Vincent Hall 2, In Person Term Based; ; 4 cr.  
 46169 010 LEC, 9:05- 9:55 MWF, Anderson Hall 210, In Person Term Based; Craig Westerland; 4 cr.  
 48541 002 LEC, 18:00-20:05 TTh, Vincent Hall 2, In Person Term Based; Jason Owens; 4 cr.  
 50434 B04 LEC, Online & Distance Lrng (ODL); Jennie Nash; 4 cr.  
 50435 C04 LEC, Online & Distance Lrng (ODL); Jennie Nash; 4 cr.  
 48668 D04 LEC, Online & Distance Lrng (ODL); Jennie Nash; 4 cr.  
 48669 E04 LEC, Online & Distance Lrng (ODL); Jennie Nash; 4 cr.  
 46170 011 DIS, 9:05- 9:55 TTh, Amundson Hall 124, In Person Term Based; Carla Claussen; 4 cr.  
 46173 014 DIS, 10:10-11:00 TTh, Amundson Hall 124, In Person Term Based; Carla Claussen; 4 cr.  
 56058 036 DIS, 13:25-14:15 TTh, Amundson Hall 158, In Person Term Based; Carla Claussen; 4 cr.  
 52873 035 DIS, 13:25-14:15 TTh, Amundson Hall 162, In Person Term Based; Carla Claussen; 4 cr.  
 46172 013 DIS, 9:05- 9:55 TTh, Appleby Hall 3, In Person Term Based; Carla Claussen; 4 cr.  
 46171 012 DIS, 9:05- 9:55 TTh, Appleby Hall 303, In Person Term Based; Carla Claussen; 4 cr.  
 52393 016 DIS, 10:10-11:00 TTh, Appleby Hall 303, In Person Term Based; Carla Claussen; 4 cr.  
 52392 015 DIS, 10:10-11:00 TTh, Appleby Hall 319, In Person Term Based; Carla Claussen; 4 cr.  
 46178 034 DIS, 13:25-14:15 TTh, Ford Hall 130, In Person Term Based; Carla Claussen; 4 cr.  
 46180 041 DIS, 15:35-16:25 TTh, Ford Hall B53, In Person Term Based; Carla Claussen; 4 cr.  
 46182 043 DIS, 16:40-17:30 TTh, Vincent Hall 2, In Person Term Based; Carla Claussen; 4 cr.  
 46181 042 DIS, 15:35-16:25 TTh, Vincent Hall 6, In Person Term Based; Carla Claussen; 4 cr.  
 46183 044 DIS, 16:40-17:30 TTh, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 46176 032 DIS, 12:20-13:10 TTh, Akerman Hall 317, In Person Term Based; Carla Claussen; 4 cr.  
 46175 031 DIS, 12:20-13:10 TTh, Akerman Hall 327, In Person Term Based; Carla Claussen; 4 cr.  
 46177 033 DIS, 12:20-13:10 TTh, Lind Hall 229, In Person Term Based; Carla Claussen; 4 cr.

### 1372 CSE Calculus II

(Student Option; Prereq: Grade of at least C- in [1371 or equiv], CSE or pre-Bioprod/Biosys Engr)

46636 020 LEC, 9:05- 9:55 MW, West Bank Skyway 20, In Person Term Based; ; 4 cr.  
 46641 030 LEC, 13:25-14:15 MW, Nicholson Hall 155, In Person Term Based; Chester Miracle; 4 cr.  
 46646 040 LEC, 14:30-15:20 MW, Smith Hall 331, In Person Term Based; Jennie Nash; 4 cr.  
 46648 043 DIS, 12:20-14:15 Th, Vincent Hall 364, 12:20-13:10 T, Vincent Hall 301, In Person Term Based; Carla Claussen; 4 cr.  
 49933 044 DIS, 12:20-14:15 Th, Vincent Hall 301, 13:25-14:15 T, Vincent Hall 301, In Person Term Based; Carla Claussen; 4 cr.  
 46640 024 DIS, 12:20-14:15 Th, Vincent Hall 209, 12:20-13:10 T, Vincent Hall 207, In Person Term Based; Carla Claussen; 4 cr.  
 46637 021 DIS, 8:00- 9:55 Th, Vincent Hall 209, 8:00- 8:50 T, Vincent Hall 213, In Person Term Based; Carla Claussen; 4 cr.  
 51245 025 DIS, 14:30-16:25 Th, Mechanical Engineering 102, 14:30-15:20 T, Vincent Hall 213, In Person Term Based; Carla Claussen; 4 cr.  
 46642 031 DIS, 10:10-12:05 Th, Vincent Hall 206, 10:10-11:00 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 46643 032 DIS, 10:10-12:05 Th, Vincent Hall 207, 11:15-12:05 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.

46644 033 DIS, 12:20-14:15 Th, Vincent Hall 207, 12:20-13:10 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 46645 034 DIS, 12:20-14:15 Th, Vincent Hall 206, 13:25-14:15 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 51247 045 DIS, 14:30-16:25 Th, Ford Hall 150, 14:30-15:20 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 51246 035 DIS, 14:30-16:25 Th, Amundson Hall 124, 15:35-16:25 T, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 46638 022 DIS, 10:10-12:05 Th, Cooke Hall 215, 10:10-11:00 T, Vincent Hall 207, In Person Term Based; Carla Claussen; 4 cr.  
 46639 023 DIS, 10:10-12:05 Th, Cooke Hall 214, 11:15-12:05 T, Vincent Hall 207, In Person Term Based; Carla Claussen; 4 cr.  
 46647 042 DIS, 10:10-12:05 Th, Ford Hall 150, 10:10-11:00 T, Vincent Hall 2, In Person Term Based; Carla Claussen; 4 cr.

### 1474 Honors Calculus IIB for Secondary Students

(Student Option; Prereq: 1473H)

50197 600 LEC, In Person Term Based; Harvey Keynes; 3 cr.

### 1572H Honors Calculus II

(A-F only; Prereq: 1571H, honors student, permission of University Honors Program)

46658 011 DIS, 10:10-11:00 TTh, Appleby Hall 3, In Person Term Based; 4 cr.  
 46657 010 LEC, 10:10-11:00 MWF, Vincent Hall 20, In Person Term Based; Ian Whitehead; 4 cr.

### 2243 Linear Algebra and Differential Equations

(Student Option; Prereq: [1272 or 1282 or 1372 or 1572] w/grade of at least C-)

46195 001 LEC, 18:00-20:05 MW, Vincent Hall 1, In Person Term Based; ; 4 cr.  
 48543 002 LEC, 18:00-20:05 TTh, Vincent Hall 1, In Person Term Based; Fei He; 4 cr.  
 46200 020 LEC, 15:35-16:25 MWF, Fraser Hall 101, In Person Term Based; Maury Bramson; 4 cr.  
 46196 010 LEC, 10:10-11:00 MWF, Fraser Hall 102, In Person Term Based; Maury Bramson; 4 cr.  
 50438 B02 LEC, Online & Distance Lrng (ODL); David Morawski; 4 cr.  
 50439 C02 LEC, Online & Distance Lrng (ODL); David Morawski; 4 cr.  
 50440 D02 LEC, Online & Distance Lrng (ODL); David Morawski; 4 cr.  
 50441 E02 LEC, Online & Distance Lrng (ODL); David Morawski; 4 cr.  
 46197 011 DIS, 9:05- 9:55 TTh, Appleby Hall 11, In Person Term Based; Carla Claussen; 4 cr.  
 46198 013 DIS, 10:10-11:00 TTh, Appleby Hall 11, In Person Term Based; Carla Claussen; 4 cr.  
 55275 012 DIS, 9:05- 9:55 TTh, Appleby Hall 103, In Person Term Based; Carla Claussen; 4 cr.  
 46199 014 DIS, 10:10-11:00 TTh, Appleby Hall 103, In Person Term Based; Carla Claussen; 4 cr.  
 55989 015 DIS, 10:10-11:00 TTh, Bruininks Hall 144, In Person Term Based; Carla Claussen; 4 cr.  
 46201 021 DIS, 14:30-15:20 TTh, Akerman Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46202 022 DIS, 14:30-15:20 TTh, Amundson Hall 162, In Person Term Based; Carla Claussen; 4 cr.  
 46203 023 DIS, 15:35-16:25 TTh, Vincent Hall 211, In Person Term Based; Carla Claussen; 4 cr.  
 55276 024 DIS, 15:35-16:25 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.

### 2263 Multivariable Calculus

(Student Option; Prereq: [1272 or 1372 or 1572] w/ grade of at least C-)

46205 010 LEC, 11:15-12:05 MWF, Fraser Hall 101, In Person Term Based; ; 4 cr.  
 46204 001 LEC, 18:00-20:05 MW, Vincent Hall 211, In Person Term Based; ; 4 cr.  
 46209 020 LEC, 13:25-14:15 MWF, Fraser Hall 101, In Person Term Based; Dennis Hejhal; 4 cr.  
 50436 B04 LEC, Online & Distance Lrng (ODL); Erin Manlove; 4 cr.  
 50437 C04 LEC, Online & Distance Lrng (ODL); Erin Manlove; 4 cr.  
 48670 D04 LEC, Online & Distance Lrng (ODL); Erin Manlove; 4 cr.  
 48671 E04 LEC, Online & Distance Lrng (ODL); Erin Manlove; 4 cr.  
 68697 015 DIS, 12:20-13:10 TTh, Vincent Hall 6, In Person Term Based; Carla Claussen; 4 cr.  
 55274 024 DIS, 14:30-15:20 TTh, Akerman Hall 215, In Person Term Based; Carla Claussen; 4 cr.

51244 011 DIS, 11:15-12:05 TTh, Appleby Hall 3, In Person Term Based; Carla Claussen; 4 cr.  
 46206 012 DIS, 11:15-12:05 TTh, Appleby Hall 11, In Person Term Based; Carla Claussen; 4 cr.  
 55990 025 DIS, 14:30-15:20 TTh, Appleby Hall 204, In Person Term Based; Carla Claussen; 4 cr.  
 46207 013 DIS, 11:15-12:05 TTh, Ford Hall 130, In Person Term Based; Carla Claussen; 4 cr.  
 46208 014 DIS, 12:20-13:10 TTh, Ford Hall B53, In Person Term Based; Carla Claussen; 4 cr.  
 46211 022 DIS, 13:25-14:15 TTh, Ford Hall B53, In Person Term Based; Carla Claussen; 4 cr.  
 46210 021 DIS, 13:25-14:15 TTh, Lind Hall 229, In Person Term Based; Carla Claussen; 4 cr.  
 46212 023 DIS, 13:25-14:15 TTh, Vincent Hall 6, In Person Term Based; Carla Claussen; 4 cr.

### 2283 Sequences, Series, and Foundations

(Student Option; Prereq: [concurrent registration is required (or allowed) in 2243 or concurrent registration is required (or allowed) in 2263 or concurrent registration is required (or allowed) in 2373 or concurrent registration is required (or allowed) in 2374] w/grade of at least C-)

46213 010 LEC, 12:20-13:10 MW, Keller Hall 3-125, In Person Term Based; Anar Akhmedov; 3 cr.  
 46214 011 DIS, 12:20-13:10 TTh, Vincent Hall 211, In Person Term Based; Carla Claussen; 3 cr.  
 55876 012 DIS, 13:25-14:15 TTh, Vincent Hall 211, In Person Term Based; Carla Claussen; 3 cr.

### 2373 CSE Linear Algebra and Differential Equations

(Student Option; Prereq: [1272 or 1282 or 1372 or 1572] w/grade of at least C-, CSE or pre-Bio Prod/Biosys Engr)

55313 040 LEC, 13:25-14:15 MW, Rapson Hall 100, In Person Term Based; ; 4 cr.  
 49070 020 LEC, 14:30-15:20 MW, Rapson Hall 100, In Person Term Based; ; 4 cr.  
 54949 030 LEC, 15:35-16:25 MW, Murphy Hall 130, In Person Term Based; ; 4 cr.  
 49066 010 LEC, 9:05- 9:55 MW, Anderson Hall 330, In Person Term Based; Terrence Stanley; 4 cr.  
 54954 024 DIS, 12:20-13:10 T, Lind Hall 40, 11:15-12:05 TTh, Akerman Hall 317, In Person Term Based; Carla Claussen; 4 cr.  
 53314 015 DIS, 12:20-13:10 Th, Lind Hall 40, 11:15-12:05 TTh, Akerman Hall 327, In Person Term Based; Carla Claussen; 4 cr.  
 53774 023 DIS, 11:15-12:05 T, Lind Hall 40, 10:10-11:00 TTh, Amundson Hall 120, In Person Term Based; Carla Claussen; 4 cr.  
 49068 013 DIS, 10:10-11:00 Th, Lind Hall 40, 9:05- 9:55 TTh, Ford Hall B53, In Person Term Based; Carla Claussen; 4 cr.  
 54952 033 DIS, 15:35-16:25 T, Lind Hall 40, 14:30-15:20 TTh, Ford Hall B53, In Person Term Based; Carla Claussen; 4 cr.  
 55317 044 DIS, 16:40-17:30 Th, Lind Hall 40, 15:35-16:25 TTh, Vincent Hall 2, In Person Term Based; Carla Claussen; 4 cr.  
 49072 022 DIS, 10:10-11:00 T, Lind Hall 40, 9:05- 9:55 TTh, Vincent Hall 6, In Person Term Based; Carla Claussen; 4 cr.  
 55316 043 DIS, 15:35-16:25 Th, Lind Hall 40, 14:30-15:20 TTh, Vincent Hall 6, In Person Term Based; Carla Claussen; 4 cr.  
 49071 021 DIS, 9:05- 9:55 T, Lind Hall 40, 8:00- 8:50 TTh, Vincent Hall 20, In Person Term Based; Carla Claussen; 4 cr.  
 49069 014 DIS, 11:15-12:05 Th, Lind Hall 40, 10:10-11:00 TTh, Vincent Hall 20, In Person Term Based; Carla Claussen; 4 cr.  
 54953 034 DIS, 16:40-17:30 T, Lind Hall 40, 15:35-16:25 TTh, Vincent Hall 20, In Person Term Based; Carla Claussen; 4 cr.  
 54950 031 DIS, 13:25-14:15 T, Lind Hall 40, 12:20-13:10 TTh, Vincent Hall 113, In Person Term Based; Carla Claussen; 4 cr.  
 54951 032 DIS, 14:30-15:20 T, Lind Hall 40, 13:25-14:15 TTh, Vincent Hall 113, In Person Term Based; Carla Claussen; 4 cr.  
 49067 012 DIS, 9:05- 9:55 Th, Lind Hall 40, 8:00- 8:50 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.  
 55314 041 DIS, 13:25-14:15 Th, Lind Hall 40, 12:20-13:10 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.  
 55315 042 DIS, 14:30-15:20 Th, Lind Hall 40, 13:25-14:15 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.

### 2374 CSE Multivariable Calculus and Vector Analysis

**(Student Option; Prereq: [1272 or 1282 or 1372 or 1572] w/grade of at least C-, CSE or pre-Bioproduct/Biosys Engr)**

46656 024 DIS, 14:30-16:25 T, Vincent Hall 5, 14:30-15:20 Th, Vincent Hall 301, In Person Term Based; Carla Claussen; 4 cr.  
 50087 010 LEC, 9:05-9:55 WF, Anderson Hall 250, In Person Term Based; Elena Yudovina; 4 cr.  
 46652 020 LEC, 13:25-14:15 WF, Anderson Hall 350, In Person Term Based; Elena Yudovina; 4 cr.  
 50518 025 DIS, 16:40-17:30 Th, Vincent Hall 313, 16:40-18:35 T, Vincent Hall 5, In Person Term Based; Carla Claussen; 4 cr.  
 46653 021 DIS, 8:00-9:55 T, Vincent Hall 5, 8:00-8:50 Th, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46649 011 DIS, 8:00-9:55 Th, Vincent Hall 5, 8:00-8:50 T, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46654 022 DIS, 10:10-12:05 T, Vincent Hall 5, 10:10-11:00 Th, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46650 012 DIS, 10:10-12:05 Th, Vincent Hall 5, 10:10-11:00 T, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46655 023 DIS, 12:20-14:15 T, Vincent Hall 5, 12:20-13:10 Th, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 46651 013 DIS, 12:20-14:15 Th, Vincent Hall 5, 12:20-13:10 T, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 53478 015 DIS, 16:40-18:35 Th, Vincent Hall 5, 16:40-17:30 T, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.  
 49073 014 DIS, 14:30-16:25 Th, Vincent Hall 5, 14:30-15:20 T, Vincent Hall 313, In Person Term Based; Carla Claussen; 4 cr.

**2473 UM Talented Youth Mathematics Program--Calculus III, Second Semester (A-F or Audit; MATH)**

53963 600 LEC, In Person Term Based; Harvey Keynes; 2 cr.

**2474 Advanced Topics for Secondary Students**

**(Student Option; Prereq: 2473H)**  
 50018 600 LEC, In Person Term Based; Harvey Keynes; 3 cr.  
 52882 602 LEC, In Person Term Based; Harvey Keynes; 3 cr.

**2574H Honors Calculus IV**

**(A-F only; Prereq: Math 1572H or Math 2573H, honors student and permission of University Honors Program)**  
 49075 010 LEC, 10:10-11:00 MWF, Fraser Hall 101, In Person Term Based; Peter Webb; 4 cr.  
 55671 013 DIS, 10:10-11:00 TTh, Bruininks Hall 123, In Person Term Based; Carla Claussen; 4 cr.  
 49077 012 DIS, 9:05-9:55 TTh, Vincent Hall 206, In Person Term Based; Carla Claussen; 4 cr.  
 49076 011 DIS, 9:05-9:55 TTh, Vincent Hall 207, In Person Term Based; Carla Claussen; 4 cr.  
 57408 014 DIS, 10:10-11:00 TTh, Vincent Hall 209, In Person Term Based; Carla Claussen; 4 cr.

**3283W Sequences, Series, and**

**Foundations: Writing Intensive (Student Option; Prereq: [concurrent registration is required (or allowed) in 2243 or concurrent registration is required (or allowed) in 2263 or concurrent registration is required (or allowed) in 2373 or concurrent registration is required (or allowed) in 2374] w/grade of at least C-WI)**

48797 010 LEC, 9:05-9:55 MWF, Anderson Hall 270, In Person Term Based; 4 cr.  
 58389 015 DIS, 10:10-11:00 TTh, Akerman Hall 317, In Person Term Based; Carla Claussen; 4 cr.  
 55865 014 DIS, 10:10-11:00 TTh, Akerman Hall 327, In Person Term Based; Carla Claussen; 4 cr.  
 53424 012 DIS, 9:05-9:55 TTh, Vincent Hall 113, In Person Term Based; Carla Claussen; 4 cr.  
 48798 011 DIS, 9:05-9:55 TTh, Vincent Hall 211, In Person Term Based; Carla Claussen; 4 cr.  
 53425 013 DIS, 9:05-9:55 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.  
 67819 016 DIS, 10:10-11:00 TTh, Vincent Hall 311, In Person Term Based; Carla Claussen; 4 cr.

**3593H Honors Mathematics II**

**(A-F or Audit; Prereq: 3592H or instr consent)**  
 51031 010 LEC, 10:10-11:00 MWF, Vincent Hall 209, In Person Term Based; Benjamin Brubaker; 5 cr.  
 51032 011 DIS, 10:10-11:00 TTh, Vincent Hall 301, In Person Term Based; Carla Claussen; 5 cr.

**4065 Theory of Interest**

**(A-F only; Prereq: 1272 or 1372 or 1572)**

46456 001 LEC, 17:00-18:40 MW, Ford Hall 115, In Person Term Based; Carla Claussen; 4 cr.  
 57671 003 LEC, 17:00-18:40 MW, Lind Hall 203, In Person Term Based; Carla Claussen; 4 cr.  
 55867 002 LEC, 17:00-18:40 MW, Lind Hall 229, In Person Term Based; Carla Claussen; 4 cr.

**4067W Actuarial Mathematics in Practice**

**(A-F only; Prereq: 4065, ACCT 2050, ECON 1101, ECON 1102W)**

57456 001 LEC, 17:00-19:30 W, Bruininks Hall 432A, In Person Term Based; Rina Ashkenazi; 3 cr.

**4152 Elementary Mathematical Logic**

**(Student Option; Prereq: one soph math course or instr consent)**

46683 001 LEC, 11:15-12:30 MW, Vincent Hall 1, In Person Term Based; Karel Priky; 3 cr.

**4242 Applied Linear Algebra**

**(Student Option; Prereq: 2243 or 2373 or 2573)**

52114 001 LEC, 10:10-11:00 MWF, Vincent Hall 211, In Person Term Based; Richard Moeckel; 4 cr.  
 47870 002 LEC, 10:10-11:00 MWF, Vincent Hall 113, In Person Term Based; Wenqing Hu; 4 cr.  
 55999 005 LEC, 14:30-15:20 MWF, Vincent Hall 211, In Person Term Based; Yu-jong Tzeng; 4 cr.  
 48863 003 LEC, 12:20-13:10 MWF, Vincent Hall 211, In Person Term Based; Yu-jong Tzeng; 4 cr.  
 50519 004 LEC, 12:20-13:10 TTh, Appleby Hall 103, In Person Term Based; Yuqin Zhao; 4 cr.  
 56916 006 LEC, 14:30-15:20 MWF, Vincent Hall 113, In Person Term Based; Yuqin Zhao; 4 cr.

**4281 Introduction to Modern Algebra**

**(Student Option; Prereq: 2283 or 3283 or instr consent)**

51033 001 LEC, 9:05-9:55 MWF, Vincent Hall 2, In Person Term Based; Steven Sperber; 4 cr.  
 58388 002 LEC, 11:15-12:05 MWF, Vincent Hall 2, In Person Term Based; Steven Sperber; 4 cr.

**4428 Mathematical Modeling**

**(Student Option; Prereq: 2243 or 2373 or 2573)**

59828 002 LEC, 12:20-13:10 MWF, Vincent Hall 2, In Person Term Based; 4 cr.  
 46719 001 LEC, 12:20-13:10 MWF, Vincent Hall 20, In Person Term Based; 4 cr.

**4512 Differential Equations with**

**Applications**

**(Student Option; Prereq: 2243 or 2373 or 2573)**

46702 001 LEC, 10:10-11:00 MWF, Vincent Hall 311, In Person Term Based; Bevin Maultsby; 3 cr.  
 57672 002 LEC, 13:25-14:15 MWF, Ford Hall 110, In Person Term Based; Mikhail Safonov; 3 cr.

**4567 Applied Fourier Analysis**

**(Student Option; Prereq: 2243 or 2373 or 2573)**

46720 001 LEC, 13:25-14:15 MWF, Vincent Hall 1, In Person Term Based; Jiaping Wang; 4 cr.  
 57673 002 LEC, 15:35-16:25 MWF, Vincent Hall 2, In Person Term Based; Jiaping Wang; 4 cr.

**4604 Advanced Calculus II**

**(Student Option; Prereq: 4603 or 5615 or instr consent)**

56549 001 LEC, 9:05-11:00 TTh, Civil Engineering Bldg 213, In Person Term Based; Scot Adams; 4 cr.

**4653 Elementary Probability**

**(Student Option; Prereq: [2263 or 2374 or 2573]; [2283 or 2574 or 3283] recommended)**

53000 001 LEC, 10:10-12:05 TTh, Ford Hall B53, In Person Term Based; Richard Moeckel; 4 cr.

**4707 Introduction to Combinatorics and**

**Graph Theory**

**(Student Option; Prereq: 2243, [2283 or 3283])**

50164 001 LEC, 14:30-16:25 MW, Vincent Hall 6, In Person Term Based; Jed Yang; 4 cr.

**4990 Topics in Mathematics**

**(Student Option; )**

48345 001 LEC, In Person Term Based; 1-4 cr.

**5068 Actuarial Mathematics II**

**(Student Option; Prereq: 5067)**

56776 002 LEC, 13:00-14:15 MW, Akerman Hall 225, In Person Term Based; 4 cr.  
 46474 001 LEC, 13:00-14:15 MW, Burton Hall 120, In Person Term Based; 4 cr.

**5076 Mathematics of Options, Futures, and Derivative Securities II**

**(A-F or Audit; Prereq: 5075)**

48799 001 LEC, 17:00-18:40 MW, Vincent Hall 301, In Person Term Based; 4 cr.

**5248 Cryptology and Number Theory**

**(Student Option; Prereq: 2 sems soph math)**

52926 001 LEC, 13:00-14:15 MW, Vincent Hall 113, In Person Term Based; Andrew Odlyzko; 4 cr.  
 57674 002 LEC, 14:30-15:45 TTh, Vincent Hall 113, In Person Term Based; Ian Whitehead; 4 cr.

**5251 Error-Correcting Codes, Finite Fields, Algebraic Curves**

**(Student Option; Prereq: 2 sems soph math)**

46708 001 LEC, 16:00-17:15 MW, Vincent Hall 1, In Person Term Based; Andrew Odlyzko; 4 cr.

**5286H Honors: Fundamental Structures of Algebra II**

**(Student Option; Prereq: 5285)**

46685 001 LEC, 10:10-11:00 MWF, Vincent Hall 206, In Person Term Based; William Messing; 4 cr.

**5378 Differential Geometry**

**(Student Option; Prereq: [2263 or 2374 or 2573], [2243 or 2373 or 2574]; [2283 or 3283] recommended)**

46718 001 LEC, 13:25-14:15 MWF, Vincent Hall 311, In Person Term Based; Jack Conn; 4 cr.

**5385 Introduction to Computational**

**Algebraic Geometry**

**(Student Option; Prereq: [2263 or 2374 or 2573], [2243 or 2373 or 2574])**

55272 001 LEC, 16:00-17:15 MW, Vincent Hall 206, In Person Term Based; Gennady Lyubeznik; 4 cr.

**5445 Mathematical Analysis of Biological Networks**

**(Student Option; Prereq: Linear algebra, differential equations)**

59962 001 LEC, 13:00-14:15 TTh, Vincent Hall 213, In Person Term Based; Yougan Cheng; 4 cr.

**5467 Introduction to the Mathematics of Image and Data Analysis**

**(Student Option; Prereq: [2243 or 2373 or 2573], [2283 or 2574 or 3283 or instr consent]; [[2263 or 2374], 4567] recommended)**

55273 001 LEC, 13:00-14:15 MW, Vincent Hall 206, In Person Term Based; Gilad Lerman; 4 cr.

**5486 Introduction To Numerical Methods II**

**(Student Option; Prereq: 5485)**

48244 001 LEC, 13:25-14:15 MWF, Vincent Hall 20, In Person Term Based; Carme Calderer; 4 cr.

**5525 Introduction to Ordinary Differential Equations**

**(Student Option; Prereq: [2243 or 2373 or 2573], [2283 or 2574 or 3283])**

50570 001 LEC, 11:15-12:05 MWF, Vincent Hall 113, In Person Term Based; Markus Keel; 4 cr.

**5588 Elementary Partial Differential Equations II**

**(A-F or Audit; Prereq: [[2243 or 2373 or 2573], [2263 or 2374 or 2574], 5587] or instr consent)**

48800 001 LEC, 16:45-18:00 TTh, Vincent Hall 207, In Person Term Based; Carme Calderer; 4 cr.

**5616H Honors: Introduction to Analysis II**

**(Student Option; Prereq: 5615)**

46700 001 LEC, 12:20-13:10 MWF, Vincent Hall 6, In Person Term Based; Adrian Diaconu; 4 cr.  
 46701 002 LEC, 14:30-15:20 MWF, Vincent Hall 207, In Person Term Based; Jack Conn; 4 cr.

**5651 Basic Theory of Probability and Statistics**

**(Student Option; Prereq: [2263 or 2374 or 2573], [2243 or 2373]; [2283 or 2574 or 3283] recommended.)**

46721 001 LEC, 10:10-12:05 TTh, Vincent Hall 211, In Person Term Based; Jasmine Foo; 4 cr.  
 57675 003 LEC, 16:40-18:35 TTh, Ford Hall 115, In Person Term Based; Victor Reiner; 4 cr.  
 49078 002 LEC, 10:10-12:05 TTh, Vincent Hall 113, In Person Term Based; Victor Reiner; 4 cr.

**5652 Introduction to Stochastic Processes (Student Option; Prereq: 5651 or Stat 5101)**

46722 001 LEC, 10:10-12:05 TTh, Ford Hall 115, In Person Term Based; ; 4 cr.  
 57676 002 LEC, 10:10-12:05 TTh, Vincent Hall 6, In Person Term Based; Arnab Sen; 4 cr.  
 59837 003 LEC, 16:40-18:35 TTh, Lind Hall 302, In Person Term Based; Bert Fristedt; 4 cr.

### 5654 Prediction and Filtering

(Student Option; Prereq: 5651 or Stat 5101)  
 48542 001 LEC, 10:10-12:05 TTh, Vincent Hall 213, In Person Term Based; Bert Fristedt; 4 cr.

### 5707 Graph Theory and Non-enumerative Combinatorics

(Student Option; Prereq: [2243 or 2373 or 2573], [2263 or 2374 or 2574]; [2283 or 3283 or experience in writing proofs] highly recommended; Credit will not be granted if credit has been received for: 4707)  
 46686 001 LEC, 11:15-13:10 MW, Vincent Hall 311, In Person Term Based; ; 4 cr.

### 5900 Tutorial in Advanced Mathematics

(A-F or Audit; )  
 50165 001 IND, In Person Term Based; 1-6 cr.  
 55942 002 IND, In Person Term Based; 1-6 cr.

### 8202 General Algebra

(A-F or Audit; Prereq: 8201 or instr consent)  
 56264 001 LEC, 9:05-9:55 MWF, Vincent Hall 301, In Person Term Based; Greg Anderson; 3 cr.

### 8208 Theory of Modular Forms and L-Functions

(A-F or Audit; Prereq: 8207 or instr consent)  
 67743 001 LEC, 11:15-12:05 MWF, Vincent Hall 213, In Person Term Based; Carla Claussen; 3 cr.

### 8246 Group Theory

(A-F or Audit; Prereq: 8245 or instr consent)  
 67744 001 LEC, 13:25-14:15 MWF, Vincent Hall 213, In Person Term Based; Carla Claussen; 3 cr.

### 8254 Algebraic Geometry

(A-F or Audit; Prereq: 8253 or instr consent)  
 56484 001 LEC, 10:10-11:00 MWF, Vincent Hall 364, In Person Term Based; Tyler Lawson; 3 cr.

### 8272 Lie Groups and Lie Algebras

(A-F or Audit; Prereq: 8271 or instr consent)  
 67745 001 LEC, 9:05-9:55 MWF, Vincent Hall 206, In Person Term Based; Carla Claussen; 3 cr.

### 8280 Topics in Number Theory

(A-F or Audit; )  
 60397 001 LEC, 13:00-14:15 MW, Vincent Hall 301, In Person Term Based; Kai-Wen Lan; 1-3 cr.

### 8300 Topics in Algebra

(A-F or Audit; Prereq: Grad math major or instr consent; offered as one yr or one sem crse as circumstances warrant)  
 68337 001 LEC, 14:30-15:20 MWF, Vincent Hall 206, In Person Term Based; Dihua Jiang; 1-3 cr.

### 8302 Manifolds and Topology

(A-F or Audit; Prereq: 8301 or instr consent)  
 47216 001 LEC, 13:25-14:15 MWF, Vincent Hall 2, In Person Term Based; Tian-Jun Li; 3 cr.

### 8307 Algebraic Topology

(A-F or Audit; Prereq: 8306 or instr consent)  
 60405 001 LEC, 11:15-12:05 MWF, Vincent Hall 20, In Person Term Based; Anar Akhmedov; 3 cr.

### 8366 Riemannian Geometry

(A-F or Audit; Prereq: 8365 or instr consent)  
 60400 001 LEC, 10:10-11:00 MWF, Vincent Hall 313, In Person Term Based; Robert Gulliver; 3 cr.

### 8402 Mathematical Modeling and Methods of Applied Mathematics

(A-F or Audit; Prereq: 8401 or instr consent)  
 47284 001 LEC, 9:05-9:55 MWF, Vincent Hall 213, In Person Term Based; Yoichiro Mori; 3 cr.

### 8432 Mathematical Fluid Mechanics

(Student Option; Prereq: 8431 or instr consent)  
 68339 001 LEC, 13:25-14:15 MWF, Vincent Hall 209, In Person Term Based; Vladimir Sverak; 3 cr.

### 8442 Numerical Analysis and Scientific Computing

(Student Option; Prereq: 8441 or instr consent; 5477-5478 recommended for engineering and science grad students)

47289 001 LEC, 11:15-12:05 MWF, Vincent Hall 209, In Person Term Based; Douglas Arnold; 3 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49080 001 IND, In Person Term Based; 1 cr.

### 8446 Numerical Analysis of Differential Equations

(A-F or Audit; Prereq: 8445 or instr consent)  
 60393 001 LEC, 11:15-12:05 MWF, Vincent Hall 364, In Person Term Based; Bernardo Cockburn; 3 cr.

### 8540 Topics in Mathematical Biology

(A-F or Audit; )  
 58668 001 LEC, 13:25-14:15 MWF, Vincent Hall 364, In Person Term Based; Hans Othmer; 1-3 cr.

### 8572 Theory of Evolutionary Equations

(A-F or Audit; Prereq: 8571 or instr consent)  
 68340 001 LEC, 11:15-12:05 MWF, Vincent Hall 301, In Person Term Based; Peter Polacik; 3 cr.

### 8584 Theory of Partial Differential Equations

(A-F or Audit; Prereq: 8583 or instr consent)  
 57775 001 LEC, 10:10-11:00 MWF, Vincent Hall 301, In Person Term Based; Markus Keel; 3 cr.

### 8602 Real Analysis

(A-F or Audit; Prereq: 8601 or instr consent)  
 47554 001 LEC, 10:10-11:00 MWF, Vincent Hall 2, In Person Term Based; Mikhail Safonov; 3 cr.

### 8652 Theory of Probability Including Measure Theory

(Student Option; Prereq: 8651 or instr consent)  
 47868 001 LEC, 10:10-11:00 MWF, Vincent Hall 1, In Person Term Based; Arnab Sen; 3 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49081 001 IND, In Person Term Based; 1-6 cr.

### 8669 Combinatorial Theory

(A-F or Audit; Prereq: 8668 or instr consent)  
 67758 001 LEC, 11:15-12:05 MWF, Vincent Hall 207, In Person Term Based; Carla Claussen; 3 cr.

### 8702 Complex Analysis

(A-F or Audit; Prereq: 8701 or instr consent)  
 47553 001 LEC, 14:30-15:20 MWF, Vincent Hall 301, In Person Term Based; Albert Marden; 3 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49082 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49083 001 IND, In Person Term Based; 1-24 cr.

### 8990 Topics in Mathematics

(S-N or Audit; Prereq: instr consent)  
 48938 001 IND, In Person Term Based; 1-6 cr.

## Mathematics Education (MTHE)

### 3101 Mathematics and Pedagogy for Elementary Teachers I

(A-F only; Prereq: [College algebra, elementary FOE student, jr status or above] or instr consent)  
 58167 001 LEC, 13:30-14:45 MW, Lrng & Environmental Sci 139B, In Person Term Based; Kathleen Cramer; 3 cr.

### 3102 Mathematics and Pedagogy for Elementary Teachers II

(A-F only; Prereq: 3101, college algebra)

55444 002 LEC, 10:30-11:45 MW, Lrng & Environmental Sci 139B, In Person Term Based; ; 3 cr.  
 53036 001 LEC, 8:45-10:00 MW, Lrng & Environmental Sci 139B, In Person Term Based; Terrence Wyberg; 3 cr.

### 5031 Geometric Structures in School Mathematics

(Student Option; Prereq: Enrollment in math initial licensure program)  
 47218 001 LEC, 13:30-16:15 TTh, Lrng & Environmental Sci 139B, In Person Term Based; Erin Baldinger; 3 cr.

### 5155 Rational Number Concepts and Proportionality

(Student Option; Prereq: Educ student or instr consent)  
 58529 001 LEC, 16:40-19:20 Th, Lrng & Environmental Sci 139A, In Person Term Based; Kathleen Cramer; 3 cr.

### 5366 Technology-Assisted Mathematics Instruction

(Student Option; )  
 51424 001 LEC, 16:40-19:20 T, Lrng & Environmental Sci 139B, In Person Term Based; Vicki Griffin; 3 cr.

### 5696 Student Teaching in Mathematics

(S-N only; Prereq: MEd/initial licensure student or instr consent)  
 48521 001 FWK, 16:40-19:20 W, Mechanical Engineering 221, In Person Term Based; Terrence Wyberg; 1-8 cr.

### 5993 Directed Studies in Mathematics Education

(S-N or Audit; Prereq: Math ed MEd student, instr consent)  
 48522 001 IND, In Person Term Based; Terrence Wyberg; 2 cr.

### 8591 Seminar: Mathematics Education

(Student Option; Prereq: Math educ PhD student)  
 68496 001 LEC, 16:40-19:20 Th, Magrath Library 6, In Person Term Based; Erin Baldinger; 1-3 cr.

### 8995 Problems: Mathematics Education

(Student Option; Prereq: MA or PhD educ major with math educ concentration)  
 53035 001 IND, In Person Term Based; Lesa Clarkson; 1-6 cr.

## Mechanical Engineering (ME)

### 3041 Industrial Assignment I

(A-F only; Prereq: ME upper div, enrolled in ME co-op program)  
 47091 001 FWK, In Person Term Based; Frank Kelso; 2 cr.

### 3080 Topics in Mechanical Engineering

(Student Option; Prereq: dept consent)  
 59606 504 LEC, Study Abroad; ; 1-4 cr.

### 3221 Design and Manufacturing I: Engineering Materials and Manufacturing Processes

(A-F or Audit; Prereq: 2011, AEM 3031, MatS 2001, ME upper div)  
 54853 881 LEC, 14:30-15:45 MW, Room TBA, In Person Term Based; 4 cr.  
 54856 883 LEC, 14:30-15:45 MW, Room TBA, In Person Term Based; 4 cr.  
 54857 884 LAB, 16:00-17:55 Th, Room TBA, In Person Term Based; 4 cr.

54858 888 DIS, In Person Term Based; ; 4 cr.  
 54854 882 LAB, 16:00-17:55 Th, Room TBA, In Person Term Based; ; 4 cr.  
 54861 889 DIS, In Person Term Based; ; 4 cr.  
 54859 885 LEC, 14:30-15:20 MW, Room TBA, In Person Term Based; ; 4 cr.  
 54860 886 LAB, 16:00-17:55 Th, Room TBA, In Person Term Based; ; 4 cr.

54855 887 DIS, In Person Term Based; Frank Kelso; 4 cr.  
 46865 001 LEC, 12:20-13:10 MWF, Mechanical Engineering 18, In Person Term Based; Susan Mantell; 4 cr.  
 49732 018 DIS, 16:40-18:35 W, Bruininks Hall 117, In Person Term Based; Thomas Chase; 4 cr.  
 49731 017 DIS, 10:10-12:05 M, Bruininks Hall 144, In Person Term Based; Thomas Chase; 4 cr.  
 49733 019 DIS, 16:40-18:35 Th, Bruininks Hall 144, In Person Term Based; Thomas Chase; 4 cr.  
 49730 016 DIS, 8:00-9:55 M, Akerman Hall 313, In Person Term Based; Thomas Chase; 4 cr.

48698 013 LAB, 14:30-16:25 Th, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46874 010 LAB, 8:00- 9:55 Th, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46871 007 LAB, 8:00- 9:55 W, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46867 003 LAB, 8:00- 9:55 T, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 48699 014 LAB, 9:05-11:00 F, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 48696 011 LAB, 10:10-12:05 Th, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46872 008 LAB, 10:10-12:05 W, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46868 004 LAB, 10:10-12:05 T, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46897 012 LAB, 12:20-14:15 Th, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46869 005 LAB, 12:20-14:15 T, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46873 009 LAB, 14:30-16:25 W, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46870 006 LAB, 14:30-16:25 T, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.  
 46866 002 LAB, 14:30-16:25 M, Mechanical Engineering 70, In Person Term Based; Thomas Chase; 4 cr.

### 3222 Design and Manufacturing II

(A-F or Audit; Prereq: [3221 or concurrent registration is required (or allowed) in 3221], [CSci 1113 or equiv], ME upper div)

60703 005 DIS, 14:30-16:00 Th, Amundson Hall 240, In Person Term Based; ; 4 cr.  
 46876 001 LEC, 16:40-18:30 TTh, Amundson Hall B75, In Person Term Based; Kumar Tamma; 4 cr.  
 46877 002 DIS, 17:30-19:00 W, Akerman Hall 319, In Person Term Based; Kumar Tamma; 4 cr.  
 46878 003 DIS, 14:30-16:00 F, Rapson Hall 31, In Person Term Based; Kumar Tamma; 4 cr.  
 69047 006 LEC, 8:00- 8:50 MWF, Mechanical Engineering 212, In Person Term Based; Thomas Chase; 4 cr.  
 69048 008 DIS, 8:00- 9:30 Th, Mechanical Engineering 102, In Person Term Based; Thomas Chase; 4 cr.  
 69046 007 DIS, 8:00- 9:30 T, Mechanical Engineering 102, In Person Term Based; Thomas Chase; 4 cr.  
 58129 004 DIS, 13:30-15:00 W, Amundson Hall 120, In Person Term Based; Tom Corrigan; 4 cr.

### 3281 System Dynamics and Control

(A-F or Audit; Prereq: AEM 2021, [Math 2243 or Math 2373], ME upper div)

54958 002 LEC, 11:15-12:45 TTh, Bruininks Hall 230, In Person Term Based; Rajesh Rajamani; 4 cr.  
 54959 003 DIS, 11:15-12:05 M, Rapson Hall 58, In Person Term Based; Rajesh Rajamani; 4 cr.  
 54960 004 DIS, 13:25-14:15 T, Rapson Hall 58, In Person Term Based; Rajesh Rajamani; 4 cr.  
 60971 005 DIS, 13:25-14:15 M, Mechanical Engineering 221, In Person Term Based; Rajesh Rajamani; 4 cr.

### 3331 Thermal Sciences I

(A-F only; Prereq: Chem 1021, Phys 1301, CSE student)

53880 005 DIS, In Person Term Based; 3 cr.  
 59261 006 LEC, 15:35-16:25 MWF, Bruininks Hall 420B, In Person Term Based; Alptekin Aksan; 3 cr.  
 59262 007 DIS, 16:00-16:50 T, Akerman Hall 225, In Person Term Based; Alptekin Aksan; 3 cr.  
 53054 001 LEC, 8:00- 8:50 MWF, Mechanical Engineering 18, In Person Term Based; Cari Dutcher; 3 cr.  
 55976 003 DIS, 14:30-15:20 Th, Armory Building 202, In Person Term Based; Cari Dutcher; 3 cr.  
 53055 002 DIS, 14:30-15:20 Th, Mechanical Engineering 212, In Person Term Based; Cari Dutcher; 3 cr.

### 3332 Thermal Sciences II

(A-F only; Prereq: Math 2243, 3331, ME upper div)

53111 001 LEC, 14:30-16:00 TTh, Rapson Hall 58, In Person Term Based; Lian Shen; 3 cr.  
 55550 002 DIS, In Person Term Based; Lian Shen; 3 cr.  
 56773 003 DIS, 15:00-16:30 W, Amundson Hall 120, In Person Term Based; Lian Shen; 3 cr.  
 60895 004 LEC, 8:00- 8:50 MWF, Akerman Hall 225, In Person Term Based; Paul Strykowski; 3 cr.  
 60896 005 DIS, 8:00- 8:50 Th, Akerman Hall 225, In Person Term Based; Paul Strykowski; 3 cr.

### 3333 Thermal Sciences III

(A-F only; )

53056 001 LEC, 10:10-11:00 MWF, Vincent Hall 16, In Person Term Based; Francis Kulacki; 3 cr.  
 53057 002 DIS, 10:10-11:00 Th, Mechanical Engineering 18, In Person Term Based; Francis Kulacki; 3 cr.

### 4031W Basic Mechanical Measurements Laboratory

(A-F or Audit; Prereq: IE 4521, upper div MEWI)

51320 001 LEC, 8:15- 9:30 TTh, Amundson Hall B75, In Person Term Based; Peter Bruggeman; 4 cr.  
 51330 011 LAB, 13:25-16:25 F, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51334 015 LAB, 16:40-19:40 Th, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51333 014 LAB, 16:40-19:40 W, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51332 013 LAB, 16:40-19:40 T, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51331 012 LAB, 16:40-19:40 M, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51325 006 LAB, 10:10-13:10 F, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51324 005 LAB, 10:10-13:10 Th, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51323 004 LAB, 10:10-13:10 W, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51322 003 LAB, 10:10-13:10 T, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51321 002 LAB, 10:10-13:10 M, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51329 010 LAB, 13:25-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51328 009 LAB, 13:25-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51327 008 LAB, 13:25-16:25 T, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.  
 51326 007 LAB, 13:25-16:25 M, ADCS Computer Lab TBA, In Person Term Based; Peter Bruggeman; 4 cr.

### 4043W Industrial Assignment II

(A-F only; Prereq: 3041WI)

47092 001 FWK, In Person Term Based; Frank Kelso; 4 cr.

### 4044 Industrial Assignment III

(A-F only; Prereq: ME upper div, registration in ME co-op program)

53263 001 FWK, In Person Term Based; Frank Kelso; 2 cr.

### 4054W Design Projects

(A-F or Audit; Prereq: 2011, 3221, 3222, 3281, 3331, 3332, 3333, 4031W, AEM 2021, AEM 3031, EE 3005, ME upper divWI)

46917 001 LEC, 13:25-14:15 TTh, Bruininks Hall 330, In Person Term Based; James Van De Ven; 4 cr.  
 46918 002 DIS, 14:30-17:30 TTh, Bruininks Hall 330, In Person Term Based; James Van De Ven; 4 cr.

### 4081H Mechanical Engineering Honors

Thesis I

(A-F or Audit; Prereq: ME upper div honors student, instr consent)

48507 001 IND, In Person Term Based; ; 2 cr.

### 4082H Mechanical Engineering Honors

Thesis II

(A-F or Audit; Prereq: ME upper div honors student, instr consentWI)

48508 001 IND, In Person Term Based; ; 2 cr.

### 4090 Advanced Engineering Problems

(Student Option; Prereq: ME upper div, instr consent)

48459 001 IND, In Person Term Based; ; 1-4 cr.  
 52732 002 IND, In Person Term Based; Ephraim Sparrow; 1-4 cr.

### 4231 Motion Control Laboratory

(A-F or Audit; Prereq: 3281, 4031W, ME upper div)

46879 001 LEC, 13:25-15:20 F, Mechanical Engineering 212, In Person Term Based; Zongxuan Sun; 4 cr.  
 60963 009 LAB, 9:05-12:05 F, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 46883 006 LAB, 9:05-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 46884 007 LAB, 9:05-12:05 W, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 46882 005 LAB, 9:05-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 46880 003 LAB, 9:05-12:05 M, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 49855 008 LAB, 14:30-17:30 W, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.  
 46881 004 LAB, 14:30-17:30 M, ADCS Computer Lab TBA, In Person Term Based; Zongxuan Sun; 4 cr.

### 4232 Fluid Power Control Lab

(A-F or Audit; Prereq: 3281, 4031W, ME upper div)

50221 001 LEC, 11:15-13:10 F, Akerman Hall 313, In Person Term Based; Perry Li; 4 cr.  
 60704 007 LAB, 8:00-10:00 MW, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.  
 50222 002 LAB, 9:05-11:00 TTh, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.

53313 006 LAB, 10:10-12:05 MW, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.  
 50223 003 LAB, 11:15-13:10 TTh, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.  
 50224 004 LAB, 12:20-14:15 MW, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.  
 50225 005 LAB, 14:30-16:25 MW, ADCS Computer Lab TBA, In Person Term Based; Perry Li; 4 cr.

### 4331 Thermal Energy Engineering

Laboratory

(A-F or Audit; Prereq: [3331, 3332, 3333, 4031W], [ME upper div or grad student])

46920 001 LEC, 12:20-13:10 TTh, Mechanical Engineering 321, In Person Term Based; Jiarong Hong; 4 cr.  
 61214 008 LAB, 9:05-12:05 W, ADCS Computer Lab TBA, In Person Term Based; Jiarong Hong; 4 cr.  
 61213 007 LAB, 16:40-19:40 M, ADCS Computer Lab TBA, In Person Term Based; Jiarong Hong; 4 cr.  
 53255 005 LAB, 8:00-11:00 Th, Mechanical Engineering 260, In Person Term Based; Jiarong Hong; 4 cr.  
 46922 003 LAB, 9:05-12:05 T, Mechanical Engineering 260, In Person Term Based; Jiarong Hong; 4 cr.  
 46923 004 LAB, 13:25-16:25 W, Mechanical Engineering 260, In Person Term Based; Jiarong Hong; 4 cr.  
 46921 002 LAB, 13:25-16:25 M, Mechanical Engineering 260, In Person Term Based; Jiarong Hong; 4 cr.  
 55863 006 LAB, 16:40-19:40 Th, Mechanical Engineering 260, In Person Term Based; Jiarong Hong; 4 cr.

### 5116 Cleanroom Technology and Particle Monitoring

(A-F or Audit; Prereq: CSE upper div or grad student)

60705 001 LEC, 9:05-11:00 MW, Amundson Hall 120, In Person Term Based; Chris Hogan; 4 cr.

### 5223 Materials in Design

(Student Option; Prereq: 3221, ME upper division or grad student)

56445 001 LEC, 11:15-13:10 MW, Rapson Hall 45, In Person Term Based; Tianhong Cui; 4 cr.

### 5241 Computer-Aided Engineering

(A-F or Audit; Prereq: 3222, CSci 1113 or equiv, CSE upper div or grad)

55681 881 LEC, 15:35-18:20 M, Room TBA, Primarily Online; Frank Kelso; 4 cr.  
 55683 885 LEC, 15:35-18:20 M, Rochester Campus Room TBA, Primarily Online; Frank Kelso; 4 cr.  
 48816 001 LEC, 15:35-18:20 M, Keller Hall 3-230, In Person Term Based; Frank Kelso; 4 cr.  
 55682 883 LEC, 15:35-18:20 M, Room TBA, Primarily Online; Frank Kelso; 4 cr.

### 5247 Stress Analysis, Sensing, and Transducers

(A-F or Audit; Prereq: AEM 3031, MatS 2001)

60706 001 LEC, 8:00- 8:50 MWF, Mechanical Engineering 102, In Person Term Based; Barney Klamecki; 4 cr.  
 60707 002 LAB, In Person Term Based; Barney Klamecki; 4 cr.

### 5286 Robotics

(A-F or Audit; Prereq: [3281 or equiv], [upper div ME or AEM or CSci or grad student])

55011 881 LEC, 11:15-13:10 WF, Room TBA, In Person Term Based; Max Donath; 4 cr.  
 55012 883 LEC, 11:15-13:10 WF, ONLINE, Completely Online; Max Donath; 4 cr.  
 55013 885 LEC, 11:15-13:10 WF, Rochester Campus Room TBA, In Person Term Based; Max Donath; 4 cr.  
 49724 001 LEC, 11:15-13:10 WF, Mechanical Engineering 102, In Person Term Based; Max Donath; 4 cr.

### 5341 Case Studies in Thermal Engineering and Design

(A-F or Audit; Prereq: 3333, CSE upper div or grad student)

54389 881 LEC, 18:10-21:30 T, Room TBA, In Person Term Based; Ephraim Sparrow; 4 cr.  
 54391 885 LEC, 18:10-21:30 T, Rochester Campus Room TBA, In Person Term Based; Ephraim Sparrow; 4 cr.  
 55757 001 LEC, 13:25-15:20 MW, Rapson Hall 58, In Person Term Based; Ephraim Sparrow; 4 cr.  
 53117 008 LEC, 18:10-21:30 T, Keller Hall 3-210, In Person Term Based; Ephraim Sparrow; 4 cr.  
 54390 883 LEC, 18:10-21:30 T, ONLINE, Completely Online; Ephraim Sparrow; 4 cr.

### 5351 Computational Heat Transfer

(A-F or Audit; Prereq: 3333, CSE upper div or grad student)

49686 001 LEC, 10:10-12:05 TTh, Mechanical Engineering 221, In Person Term Based; Sean Garrick; 4 cr.

**5461 Internal Combustion Engines**

(A-F or Audit; Prereq: CSE upper div or grad student, C or better in [3332, 3333] or 3324)  
60960 001 LAB, 11:15-12:05 MWThF, Mechanical Engineering 321, In Person Term Based; David Kittelson; 4 cr.

**8222 New Product Design and Business Development II**

(A-F or Audit; Prereq: 8221)  
47228 001 LEC, 17:00-20:20 W, Hanson Hall, Room 1-109, In Person Term Based; Meets With: 001 BMEN 8402060 ENTR 6042; Vicki Lund; 4 cr.

**8243 Topics in Design**

(A-F or Audit; )  
55507 001 LEC, 13:25-15:20 MW, Mechanical Engineering 321, In Person Term Based; Rusen Yang; 4 cr.

**8253 Computational Nanomechanics**

(Student Option; Prereq: CSE grad student)  
58812 001 LEC, 15:35-16:50 MF, Bruininks Hall 144, In Person Term Based; Traian Dumitrica; 3 cr.

**8282 Control of Nonlinear Systems**

(A-F or Audit; Prereq: 5281)  
56651 885 LEC, In Person Term Based; 4 cr.  
56650 001 LEC, 13:25-15:15 MW, Mechanical Engineering 108, In Person Term Based; Timothy Kowalewski; 4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49139 001 IND, In Person Term Based; 1 cr.

**8342 Convection**

(A-F or Audit; Prereq: Grad level course on fundamentals of fluid mechanics that has a substantial component on viscous flows or instr consent)  
50817 001 LEC, 9:05-10:20 MW, Keller Hall 2-260, In Person Term Based; Terrence Simon; 3 cr.

**8343 Radiation**

(A-F or Audit; Prereq: Undergrad class in heat transfer or instr consent)  
60708 001 LEC, 11:15-12:35 TTh, Akerman Hall 319, In Person Term Based; Xiaojia Wang; 3 cr.

**8362 Introduction to Plasma Technology**

(A-F or Audit; Prereq: 8361)  
55508 001 LEC, 11:15-12:30 TTh, Bruininks Hal 121, In Person Term Based; Peter Bruggeman; 3 cr.

**8390 Advanced Topics in the Thermal Sciences**

(A-F or Audit; )  
55020 882 LEC, 10:00-11:20 TTh, Room TBA, In Person Term Based; ; 1-3 cr.  
55018 881 LEC, 18:10-21:30 W, Room TBA, In Person Term Based; ; 1-3 cr.  
50814 003 LEC, 18:10-21:30 W, Room TBA, In Person Term Based; ; 1-3 cr.  
50812 002 LEC, 10:10-11:20 TTh, Room TBA, In Person Term Based; Tianhong Cui; 1-3 cr.  
55019 883 LEC, 18:10-21:30 W, ONLINE, Completely Online; ; 1-3 cr.  
50813 001 LEC, 18:10-21:30 W, Room TBA, In Person Term Based; John Bischof; 1-3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49233 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49337 001 IND, In Person Term Based; 1-6 cr.

**8773 Graduate Seminar**

(S-N or Audit; Prereq: CSE grad student)  
50319 002 LEC, In Person Term Based; Steven Girshick; 1 cr.  
47176 001 LEC, 15:35-16:25 W, Rapson Hall 58, In Person Term Based; Meets With: 001 ME 8774; Rusen Yang; 1 cr.  
51007 881 LEC, 15:35-16:25 W, Room TBA, In Person Term Based; Steven Girshick; 1 cr.  
51008 885 LEC, 15:35-16:25 W, Rochester Campus Room TBA, In Person Term Based; Steven Girshick; 1 cr.

**8774 Graduate Seminar**

(S-N or Audit; Prereq: 8773)  
47177 001 LEC, 15:35-16:25 W, Rapson Hall 58, In Person Term Based; Meets With: 001 ME 8773; Rusen Yang; 1 cr.  
51009 881 LEC, 15:35-16:25 W, Room TBA, In Person Term Based; Steven Girshick; 1 cr.  
51010 885 LEC, 15:35-16:25 W, Rochester Campus Room TBA, In Person Term Based; Steven Girshick; 1 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49424 001 IND, In Person Term Based; 1-18 cr.

**8794 Mechanical Engineering Research**

(S-N only; Prereq: instr consent)  
47182 001 IND, In Person Term Based; David Kittelson; 1-4 cr.  
50020 500 IND, Study Abroad; Katherine Moss; 1-4 cr.

**8800 Modern Developments in Mechanical Engineering**

(S-N or Audit; Prereq: CSE grad student)  
47181 001 LEC, In Person Term Based; 1 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49544 001 IND, In Person Term Based; 1-24 cr.

**Medical Device Innovation (MDI)****5006 Finance, Valuation, and Entrepreneurship**

(A-F only; )  
69072 001 LEC, 17:30-21:30 MW, Carlson School of Mgmt 1-136, In Person Term Based; Kerry Vermeer; 2 cr.

**5008 Quality, Regulatory and Manufacturing Management**

(A-F only; Prereq: MDI graduate student only)  
69071 001 LEC, 17:30-21:30 MW, Carlson School of Mgmt 1-136, In Person Term Based; Natasha Overbo; 2 cr.

**5014 Medical Device Center Practicum II**

(A-F only; Prereq: Grad MDI student)  
69073 001 LEC, In Person Term Based; Joseph Hale; 2 cr.

**Medical Industry Leadshp Inst (MILI)****5589 Medical Technology Evaluation and Market Research**

(A-F only; )  
57746 001 LEC, In Person Term Based; Meets With: 060 MILI 6589; 2 cr.

**5990 The Healthcare Marketplace**

(A-F only; )  
57318 001 LEC, 17:45-21:05 M, Hanson Hall, Room 1-102, In Person Term Based; Meets With: 060 MILI 6990; Courtney Carlson; 2 cr.

**5995 Medical Industry Valuation Laboratory**

(A-F only; Prereq: instr consent)  
55475 001 LEC, 17:45-19:30 Th, Carlson School of Mgmt L-127, In Person Term Based; Meets With: 060 MILI 6995001 MILI 6996; Irene Kawalec-Menasco; 2 cr.

**5999 Independent Study**

(A-F only; )  
55476 001 IND, In Person Term Based; Jessica Haupt; 1-8 cr.

**6235 Pharmaceutical Industry: Business and Policy**

(A-F only; )  
53138 060 LEC, 17:45-21:05 W, Hanson Hall, Room 1-102, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

**6421 Topics: Medical Industry**

(A-F only; )  
68879 001 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-127, In Person Term Based; Jessica Haupt; 2 cr.

**6589 Medical Technology Evaluation and Market Research**

(A-F only; Prereq: MBA student)  
53139 060 LEC, In Person Term Based; Meets With: 001 MILI 5589; 2 cr.

**6990 The Health Care Marketplace**

(A-F only; Prereq: MBA student)  
53576 060 LEC, 17:45-21:05 M, Hanson Hall, Room 1-102, In Person Term Based; Meets With: 001 MILI 5990; Courtney Carlson; 2 cr.

**6991 Anatomy and Physiology for Managers**

(A-F only; )  
54130 060 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-228, In Person Term Based; Irene Kawalec-Menasco; 2 cr.

**6995 Medical Industry Valuation Laboratory**

(A-F only; Prereq: Grad student)  
54758 060 LEC, 17:45-19:30 Th, Carlson School of Mgmt L-127, In Person Term Based; Meets With: 001 MILI 5995001 MILI 6996; Irene Kawalec-Menasco; 2 cr.

**6996 Medical Industry Valuation Laboratory II**

(A-F only; Prereq: Approved application)  
55645 001 LEC, 17:45-19:30 Th, Carlson School of Mgmt L-127, In Person Term Based; Meets With: 060 MILI 6995001 MILI 5995; Irene Kawalec-Menasco; 2-4 cr.

**6998 MILI Fellows**

(A-F only; )  
68878 001 LEC, In Person Term Based; Jessica Haupt; 0-2 cr.

**Medical Laboratory Sciences Pr (MLSP)****1010 Introduction to Medical Laboratory Science**

(S-N only; )  
60130 002 LEC, Completely Online; Janice Conway-Klaassen; 1 cr.  
60129 001 LEC, Completely Online; Janice Conway-Klaassen; 1 cr.

**5011W Professional Issues in the Health Care Community**

(A-F only; Prereq: Admission into MLS program or instr consent(WI))  
60132 002 LEC, Completely Online; Janice Conway-Klaassen; 2 cr.  
60131 001 LEC, Completely Online; Janice Conway-Klaassen; 2 cr.

**5113 Advanced Concepts in Diagnostic Microbiology**

(A-F only; Prereq: 5111 or instr consent)  
60134 002 LEC, 9:05-10:30 MW, , Partially Online; Lorna Ruskin; 3 cr.  
60133 001 LEC, 9:05-10:30 MW, , Partially Online; Lorna Ruskin; 3 cr.

**5213 Diagnostic Hematology**

(A-F only; Prereq: [5211, 5212] or instr consent)  
60140 002 LEC, 13:25-14:50 MW, , Partially Online; Stephen Wiesner; 3 cr.  
60139 001 LEC, 13:25-14:50 MW, , Partially Online; Stephen Wiesner; 3 cr.

**5214 Advanced Hematology Morphology**

(A-F only; Prereq: [5211, 5212, concurrent registration is required (or allowed) in 5213] or instr consent)  
60142 002 LAB, 13:25-16:25 T, Rochester Campus Room TBA, In Person Term Based; Stephen Wiesner; 1 cr.  
60141 001 LAB, 13:25-16:25 T, Molecular Cellular Biol 3-150, In Person Term Based; Stephen Wiesner; 1 cr.

**5311 Fundamental Biomedical Laboratory Techniques**

(A-F only; Prereq: 8 credits General Chemistry, 6 credits Organic Chemistry, 3 credits Biochemistry)  
60137 003 LEC, 12:20-13:10 MW, , Partially Online; Charlotte Romain; 4 cr.  
60135 001 LEC, 12:20-13:10 MW, , Partially Online; Charlotte Romain; 4 cr.  
60138 004 LAB, 13:25-16:25 MW, Rochester Campus Room TBA, In Person Term Based; Charlotte Romain; 4 cr.  
60136 002 LAB, 13:25-16:25 MW, Molecular Cellular Biol 3-150, In Person Term Based; Charlotte Romain; 4 cr.



**5313 Chemical Analysis in Health and Disease**

(A-F only; Prereq: 8 credits General Chemistry, 6 credits Organic Chemistry, 3 credits Biochemistry)  
60144 002 LEC, 15:00-16:25 MW, , Partially Online; Donna Spannaus-Martin; 3 cr.  
60143 001 LEC, 15:00-16:25 MW, , Partially Online; Donna Spannaus-Martin; 3 cr.

**5513 Transfusion Medicine Principles and Methods**

(A-F only; Prereq: [5511, upper level genetics course] or instr consent)  
60146 002 LEC, 10:40-12:05 MW, , Partially Online; Claire Bjorklund; 3 cr.  
60145 001 LEC, 10:40-12:05 MW, , Partially Online; Beverly Schmidt; 3 cr.

**5514 Application of Transfusion Medicine Principles**

(A-F only; )  
60148 002 LAB, 12:00-16:00 Th, Rochester Campus Room TBA, In Person Term Based; Claire Bjorklund; 2 cr.  
60147 001 LAB, 12:00-16:00 Th, Molecular Cellular Biol 3-150, In Person Term Based; Claire Bjorklund; 2 cr.

**Medical Physics (MPHY)****8293 Directed Study in Biophysical Sciences and Medical Physics**

(Student Option; Prereq: instr consent)  
47517 002 IND, In Person Term Based; 1-12 cr.

**8294 Directed Research in Biophysical Sciences and Medical Physics**

(Student Option; Prereq: instr consent)  
47518 002 IND, In Person Term Based; 1-12 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49096 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49196 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49279 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49385 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49512 001 IND, In Person Term Based; 1-24 cr.

**Medicinal Chemistry (MEDC)****8002 General Principles of Medicinal Chemistry**

(A-F or Audit; Prereq: Med chem grad student or instr consent)  
57774 001 LEC, 12:20-14:15 TTh, , In Person Term Based; Barry Finzel; 3 cr.

**8100 Medicinal Chemistry Seminar**

(A-F only; Prereq: Grad major or instr consent)  
46661 001 LEC, 15:30-17:00 T, Moos Health Sci Tower 2-520, In Person Term Based; Meets With: 001 PHAR 6150; Carrie Haskell-Luevano; 1 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49140 001 IND, In Person Term Based; 1 cr.

**8435 BioAssay & Data Analysis**

(A-F or Audit; Prereq: MEDC 8001 or instructor permission.)  
67701 001 LEC, 10:10-11:00 Th, , In Person Term Based; Courtney Aldrich; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49234 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49338 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49425 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49545 001 IND, In Person Term Based; 1-24 cr.

**8900 Research in Medicinal Chemistry**

(A-F or Audit; Prereq: Grad med chem major or instr consent)  
47821 001 LAB, In Person Term Based; Carston Wagner; 1-4 cr.

**Medicine (MED)****7500 Medicine Externship I**

(H-N or Audit; )  
47956 001 FWK, 8:30-11:00 Th, , 8:30-11:30 F, , In Person Term Based; Amy Palmer; 6-8 cr.

**7505 Infectious Disease Research**

(H-N or Audit; )  
47958 001 IND, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

**7509 Research in Immunology--Rheumatology**

(H-N or Audit; )  
47959 001 IND, In Person Term Based; Daneen Barnett-Johnston; 1-15 cr.

**7511 Research in Gastroenterology**

(H-N or Audit; Prerequisites other than interest in the project. )  
47969 001 IND, In Person Term Based; Daneen Barnett-Johnston; 1-15 cr.

**7512 Research in Hematology**

(H-N or Audit; )  
47960 001 IND, In Person Term Based; Daneen Barnett-Johnston; 2-8 cr.

**7518 Research in Diabetes and Endocrinology**

(H-N or Audit; )  
47961 001 IND, In Person Term Based; Daneen Barnett-Johnston; 6 cr.

**7521 Infectious Disease, Clinical Aspects**

(H-N or Audit; Prereq: 7500)  
47962 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-4 cr.

**7522 Medical Gastroenterology**

(H-N or Audit; )  
47963 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

**7523 Medical Diabetes, Endocrinology, and Metabolism**

(H-N or Audit; )  
47964 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-4 cr.

**7524 Cardiovascular Medicine**

(H-N or Audit; Prereq: One med clin clkshp)  
47978 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

**7525 Cardiovascular Medicine**

(H-N or Audit; Prereq: One med clin clkshp)  
47965 001 LEC, In Person Term Based; Daneen Barnett-Johnston; 4-6 cr.

**7526 Medical Oncology Consultation**

(H-N or Audit; Prereq: 7500)  
47966 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

**7528 Clinical Hematology**

(H-N or Audit; )  
47970 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-6 cr.

**7530 Cardiology Research Elective**

(H-N only; )  
55916 001 IND, In Person Term Based; 2-8 cr.

**7531 Clinical Outpatient and Consultative Rheumatology**

(H-N or Audit; )  
47971 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

**7532 Pulmonary Disease**

(H-N or Audit; )  
47972 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-4 cr.

**7533 Clinical Allergy**

(H-N or Audit; )  
47973 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-6 cr.

**7534 Research in Allergy**

(H-N or Audit; )  
47974 001 IND, In Person Term Based; Daneen Barnett-Johnston; 6 cr.

**7548 Clinical Genetics**

(H-N or Audit; )  
47975 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 6 cr.

**7554 Fluid Electrolyte Acid-Base Metabolism**

(H-N or Audit; Prereq: 7500 or instr consent)  
47976 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 4 cr.

**7556 Renal Consultation**

(H-N or Audit; Prereq: 7500)  
47977 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-4 cr.

**7561 Outpatient and Clinical Nephrology**

(H-N or Audit; Prereq: 7500)  
47979 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 4 cr.

**7562 Clinical Nephrology**

(H-N or Audit; Prereq: 7500)  
47980 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-4 cr.

**7573 Acute Care Internal Medicine**

(H-N or Audit; Prereq: 7500, Med 7501)  
47987 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 2-4 cr.

**7579 Critical Care/MICU**

(H-N or Audit; Prereq: 7501 or instr consent)  
47983 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 4 cr.

**7582 Medical Intensive Care Unit--Regions Medical Center**

(H-N or Audit; )  
47982 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-4 cr.

**7583 Fundamentals of Clinical Oncology**

(H-N or Audit; Prereq: 7500 or Ped 7501)  
47984 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 4 cr.

**7595 Musculoskeletal Problems in Primary Care Practice**

(H-N or Audit; Prereq: 7500)

47988 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3 cr.

### 7596 Occupational Health

(H-N or Audit; )  
47985 001 FWK, In Person Term Based; Daneen Barnett-Johnston; 3-6 cr.

### 7598 Biomedical Ethics

(H-N or Audit; )  
48061 001 LEC, In Person Term Based; Daneen Barnett-Johnston; 2-6 cr.

### 7599 Bioethics Theory

(H-N or Audit; Prereq: Students must meet with instructor prior to enrolling in course)  
48532 001 LEC, In Person Term Based; Daneen Barnett-Johnston; 3-6 cr.

### 7601 Research in Renal Diseases and Hypertension

(H-N or Audit; )  
48533 001 IND, In Person Term Based; Daneen Barnett-Johnston; 1-15 cr.

### 7602 Advanced Physical Diagnosis

(H-N or Audit; Prereq: Med sr)  
49985 001 ROT, 13:25-16:30 MTWThF, , 8:00-12:05 MTWThF, , In Person Term Based; Alison Chandler; 4 cr.

### 7604 Hospitalist and Palliative Medicine

(H-N or Audit; )  
51705 001 LEC, In Person Term Based; Daneen Barnett-Johnston; 3-4 cr.

### 7607 In-Person Global Health Course

(H-N only; Prereq grad student.)  
61224 001 LEC, 7:50-17:00 MTWThF, , In Person Term Based; 1-4 cr.

### 7666 Medicine Pediatrics Ambulatory Elective

(H-N or Audit; )  
55917 001 FWK, In Person Term Based; 3-4 cr.

### 7700 Clerkship: Internal Medicine Primary Care Selective

(P-N only; Prereq: [3rd or 4th yr] medical student)  
55430 001 ROT, 8:30-13:30 F, , 9:00-10:30 M, , In Person Term Based; Meets With: 001 MED 7701001 FMCH 7700001 PED 7700; Sally Berryman; 4 cr.

### 7701 Clerkship: Medicine/Pediatrics Primary Care Selective

(P-N only; Prereq: [3rd or 4th yr] medical student)  
55431 001 ROT, 8:30-13:30 F, , 9:00-10:30 M, , In Person Term Based; Meets With: 001 MED 7700001 FMCH 7700001 PED 7700; Sally Berryman; 4 cr.

### 7910 Internal Medicine Residency

(No Grade Associated; )  
56679 001 FWK, In Person Term Based; 6 cr.

### 7920 Medicine-Pediatric Residency

(No Grade Associated; )  
56680 001 FWK, In Person Term Based; 6 cr.

### 7930 Internal Medicine Fellowship

(No Grade Associated; )  
56681 001 FWK, In Person Term Based; 6 cr.

## Medieval Studies (MEST)

### 3009 Medieval Art

(Student Option; AH)  
68623 001 LEC, 11:15-12:30 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 ARTH 3009; ; 3 cr.

### 5993 Directed Studies in Medieval Studies

(Student Option; Prereq: One yr work in some area of Middle Ages, reading knowledge of appropriate language, instr consent)  
46690 001 IND, In Person Term Based; 1-3 cr.

## Microbial Engineering (MICE)

### 5355 Advanced Fermentation and Biocatalysis Laboratory

(S-N only; Prereq: [3301 or BIOL 3301], [grad student in microbial engineering or upper-div major in [microbiology or chem engineering or biochemistry]], instr consent)  
53920 001 LAB, 8:00-17:00 MTWThF, Gortner Laboratory 58, In Person Term Based; Timothy Tripp; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49141 001 IND, In Person Term Based; 1 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49426 001 IND, In Person Term Based; 1-18 cr.

### 8920 Teaching Practicum

(Student Option; Prereq: Grad MicE major)  
47792 001 FWK, In Person Term Based; Kristi Lecy; 1 cr.

### 8990 Discovering Patterns in the Microbiome

(Student Option; Prereq: Prereq-First-yr MICEstudents enroll S-N, as they do not make a presentation. Second-yr MICe students enroll A-F, as they present a seminar; fall, spring, every year). Student presentations of thesis research and presentations by invited speakers or designated lecturers.)  
47927 001 LEC, 15:30-17:00 Th, Gortner Laboratory 239, In Person Term Based; 1-3 cr.

## Microbiol/Immun/Cancer Biology (MICA)

### 5000 Practicum: Teaching

(No Grade Associated; )  
47785 001 FWK, In Person Term Based; Louise Shand; 0 cr.

### 8004 Cellular and Cancer Biology

(A-F or Audit; Prereq: [One undergrad or grad course each in [biochemistry, cell biology]] or instr consent)  
47860 001 LEC, 9:05-9:55 MWTThF, , In Person Term Based; David Largaespada; 4 cr.

### 8005 Topics in Microbiology, Immunology, and Cancer Biology

(A-F or Audit; Prereq: 8012, [8002 or 8003 or 8004] or instr consent)  
47877 001 DIS, In Person Term Based; 1-4 cr.

### 8009 Biochemical Aspects of Normal and Abnormal Cell Growth and Cell Death

(Student Option; Prereq: 8004 or [BioC 3021, Biol 4004] or instr consent)  
48325 001 DIS, 15:35-17:30 F, , In Person Term Based; Khalil Ahmed; 2 cr.

### 8011 Current Topics in Immunology

(A-F or Audit; Prereq: MICA 8003 or instr consent)  
58215 001 LEC, 13:30-14:45 TTh, , In Person Term Based; Michael Farrar; 3 cr.

### 8013 Translational Cancer Research

(A-F only; Prereq: 8004 or instr consent)  
56664 001 LEC, 8:00-8:50 T, , In Person Term Based; David Largaespada; 2 cr.

### 8014 Small RNA Biology

(A-F or Audit; Prereq: BIOC 8002 or MICA 8004 or equiv or instr consent)  
57369 001 LEC, 13:00-14:30 Th, , In Person Term Based; Meets With: 001 NSC 8014001 GCD 8014001 PHCL 8014; Subree Subramanian; 2 cr.

### 8094 Research in Microbiology, Immunology, and Cancer Biology

(S-N or Audit; Prereq: 1st yr MICA grad student)  
47847 001 IND, In Person Term Based; Louise Shand; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49142 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49235 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49339 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49427 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: MICaB PhD student, adviser consent)  
49546 001 IND, In Person Term Based; 1-24 cr.

### 8910 Seminar: Faculty Research Topics

(No Grade Associated; Prereq: MICaB grad student)  
47862 001 LEC, 12:15-13:15 M, , In Person Term Based; Stephen Jameson; 0 cr.

### 8920 Seminar: Student Research Topics

(No Grade Associated; Prereq: MICaB grad student or instr consent)  
47863 001 LEC, 12:15-13:15 Th, , In Person Term Based; Louise Shand; 0 cr.

## Microbiology (MICB)

### 3301 Biology of Microorganisms

(A-F or Audit; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2003], [CHEM 2301 or BIOC 2331])  
55099 003 LAB, 14:30-16:25 TTh, , In Person Term Based; Christian Mohr; 5 cr.  
47425 001 LEC, 13:00-14:15 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 001 MICB 3303; Christian Mohr; 5 cr.  
47426 002 LAB, 9:05-11:00 TTh, Moos Health Sci Tower 2-252, In Person Term Based; Christian Mohr; 5 cr.

### 3303 Biology of Microorganisms

(A-F only; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2003], [CHEM 2301 or BIOC 2331])  
56781 001 LEC, 13:00-14:15 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 001 MICB 3301; Christian Mohr; 3 cr.

### 4141W Biology, Genetics, and Pathogenesis of Viruses: Writing Intensive

(A-F only; Prereq: BIOC 3021, BIOL 4003, [MicB 3301 or BIOL 4004] or instr consentWI)  
51524 002 DIS, 9:05-9:55 F, Bruininks Hall 420A, In Person Term Based; Leslie Schiff; 4 cr.  
47428 001 LEC, 8:15-9:30 TTh, Bruininks Hall 330, In Person Term Based; Meets With: 001 MICB 4171; Leslie Schiff; 4 cr.

### 4151 Molecular and Genetic Bases for Microbial Diseases

(Student Option; Prereq: 3301, [4131 or concurrent registration is required (or allowed) in 4131], [BioC 3021 or BioC 4331], [Biol 4003 or GCD 3022])  
47841 001 LEC, 16:00-17:15 MW, , In Person Term Based; Anna Tischler; 3 cr.

### 4171 Biology, Genetics, and Pathogenesis of Viruses

(A-F only; Prereq: [BIOC 3021, BIOL 4003, [3301 or BIOL 4004]] or instr consent)  
51542 001 LEC, 8:15-9:30 TTh, Bruininks Hall 330, In Person Term Based; Meets With: 001 MICB 4141W; Leslie Schiff; 3 cr.

### 4235 Advanced Laboratory: Virology, Immunology, and Microbial Genetics

(Student Option; Prereq: 3301, 4131, BIOC 3021, [completed or concurrent registration is required (or allowed) in MicB 4141W/4171])  
47431 001 LAB, 13:25-16:25 TTh, Moos Health Sci Tower 2-242, In Person Term Based; Wade Bresnahan; 3 cr.

### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)  
49762 001 IND, In Person Term Based; 1-7 cr.

**4794W Directed Research: Writing Intensive**

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)

49763 001 IND, In Person Term Based; 1-7 cr.

**4993 Directed Studies**

(S-N only; Prereq: 3301, dept consent)

47787 001 IND, In Person Term Based; 1-6 cr.

**4994 Directed Research**

(S-N or Audit; Prereq: 3301, instr consent)

47788 001 IND, In Person Term Based; 1-7 cr.

**Military Science (MIL)****104 MS I Zero Credit Lead Lab**

(A-F only; Prereq: concurrent registration is required (or allowed) in 1102)

53933 001 LAB, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 1204001 MIL 204001 MIL 304001 MIL 3304001 MIL 1104; Mitchell Ruedebusch; 0 cr.

56540 002 LAB, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 204002 MIL 304002 MIL 1104002 MIL 1204002 MIL 3304; Mitchell Ruedebusch; 0 cr.

**204 MS II Zero Credit Lead Lab**

(A-F only; Prereq: concurrent registration is required (or allowed) in 1202)

56541 002 LAB, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 104002 MIL 304002 MIL 1104002 MIL 1204002 MIL 3304; Mitchell Ruedebusch; 0 cr.

53770 001 LAB, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 1204001 MIL 304001 MIL 104001 MIL 3304001 MIL 1104; Mitchell Ruedebusch; 0 cr.

**304 MS III Zero Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses, concurrent registration is required (or allowed) in 3302)

56542 002 LEC, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 104002 MIL 204002 MIL 1104002 MIL 1204002 MIL 3304; Mitchell Ruedebusch; 0 cr.

53771 001 LEC, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 1204001 MIL 204001 MIL 104001 MIL 3304001 MIL 1104; Mitchell Ruedebusch; 0 cr.

**404 MS IV Zero Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses, concurrent registration is required (or allowed) in 3402)

53869 001 LAB, 16:40-18:35 W, Armory Building 116, In Person Term Based; Meets With: 001 MIL 3404; Dustin Harris; 0 cr.

56543 002 LAB, 16:40-18:35 Th, Armory Building 116, In Person Term Based; Meets With: 002 MIL 3404; Dustin Harris; 0 cr.

**1102 Introduction to Tactical Leadership**

(A-F only; )

53868 001 LEC, 9:05- 9:55 W, Armory Building 116A, In Person Term Based; Mitchell Ruedebusch; 1 cr.

53876 002 LEC, 13:25-14:15 W, Armory Building 116A, In Person Term Based; Mitchell Ruedebusch; 1 cr.

**1104 MS I One Credit Lead Lab**

(A-F only; Prereq: concurrent registration is required (or allowed) in 1102)

58504 002 LAB, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 104002 MIL 204002 MIL 304002 MIL 1204002 MIL 3304; Mitchell Ruedebusch; 1 cr.

56544 001 LAB, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 1204001 MIL 204001 MIL 304001 MIL 104001 MIL 3304; Mitchell Ruedebusch; 1 cr.

**1202 Foundations of Tactical Leadership**

(A-F only; Prereq: Must enroll in lab.)

55182 003 LEC, 6:00- 7:50 Th, No Room Required, In Person Term Based; Michael McConaghy; 2 cr.

53867 001 LEC, 8:00- 8:50 MW, Armory Building 202, In Person Term Based; Michael McConaghy; 2 cr.

53877 002 LEC, 13:25-14:15 MW, Armory Building 202, In Person Term Based; Michael McConaghy; 2 cr.

**1204 MS II One Credit Lead Lab**

(A-F only; Prereq: concurrent registration is required (or allowed) in 1202)

58509 002 LAB, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 104002 MIL 204002 MIL 304002 MIL 1104002 MIL 3304; Mitchell Ruedebusch; 1 cr.

48246 001 LAB, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 204001 MIL 304001 MIL 104001 MIL 3304001 MIL 1104; Mitchell Ruedebusch; 1 cr.

**3302 Applied Team Leadership**

(A-F only; Prereq: Two yrs of ROTC or equiv established by U.S. Army, must see Army ROTC dept officials, concurrent registration is required (or allowed) in lab.)

53875 002 LEC, 6:30- 7:45 TTh, Armory Building 116, In Person Term Based; David Dempsey; 3 cr.

53866 001 LEC, 8:00- 8:50 MWF, Armory Building 116, In Person Term Based; David Dempsey; 3 cr.

55873 003 LEC, In Person Term Based; Adam Lisius; 3 cr.

**3304 MS III One Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses, concurrent registration is required (or allowed) in 3302)

58510 002 LAB, 16:40-18:35 Th, Armory Building 100, In Person Term Based; Meets With: 002 MIL 104002 MIL 204002 MIL 304002 MIL 1104002 MIL 1204; Mitchell Ruedebusch; 1 cr.

56459 001 LAB, 16:40-18:30 W, Armory Building 100, In Person Term Based; Meets With: 001 MIL 1204001 MIL 204001 MIL 304001 MIL 104001 MIL 1104; Mitchell Ruedebusch; 1 cr.

**3402 Leadership in a Complex World**

(A-F only; Prereq: Completion of all other military courses or Army equiv, concurrent registration is required (or allowed) in lab)

53865 001 LEC, 8:00- 8:50 MWF, Armory Building 116A, In Person Term Based; Dustin Harris; 3 cr.

**3404 MS IV One Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses, concurrent registration is required (or allowed) in 3402)

53935 001 LAB, 16:40-18:35 W, Armory Building 116, In Person Term Based; Meets With: 001 MIL 404; Dustin Harris; 1 cr.

58511 002 LAB, 16:40-18:35 Th, Armory Building 116, In Person Term Based; Meets With: 002 MIL 404; Dustin Harris; 1 cr.

**3502 Marksmanship Training Programs**

(A-F only; )

53864 001 DIS, 14:30-16:25 M, Armory Building 100, In Person Term Based; Jordan Carlson; 2 cr.

**3555 Applied Military Learning**

(A-F only; Prereq: Must successfully complete or receive constructive credit for all Military Science classes: MIL 1101, MIL 1102, MIL 1201, MIL 1202, MIL 3301, MIL 3302, MIL 3401, MIL 3402)

58548 001 IND, In Person Term Based; Mitchell Ruedebusch; 0-3 cr.

**3970 Military History**

(A-F only; )

48247 001 LEC, 9:05- 9:55 MWF, Armory Building 116, In Person Term Based; Steven Cole; 3 cr.

**Mol Cell Dvlpmental Biol/Gene (MCDG)****8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49138 001 IND, In Person Term Based; Sue Knoblauch; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49232 001 IND, In Person Term Based; Sue Knoblauch; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49336 001 IND, In Person Term Based; Sue Knoblauch; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49423 001 IND, In Person Term Based; Sue Knoblauch; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49542 001 IND, In Person Term Based; Sue Knoblauch; 1-24 cr.

**8900 Student Research Seminar**

(S-N or Audit; Prereq: Grad MCDG or BMBB major dept consent)

49664 001 LEC, 12:00-13:15 M, , In Person Term Based; Duncan Clarke; 1 cr.

**8950 Teaching Practicum**

(S-N or Audit; Prereq: Grad MCDG major or dept consent)

49665 001 FWK, In Person Term Based; Sue Knoblauch; 1 cr.

**8993 Directed Studies**

(Student Option; Prereq: MCDG grad student or instr consent)

49666 001 IND, In Person Term Based; Sue Knoblauch; 1-5 cr.

**8994 Research**

(S-N or Audit; Prereq: MCDG grad student or dept consent)

49667 001 IND, In Person Term Based; Sue Knoblauch; 1-5 cr.

**Mortuary Science (MORT)****3012W Organization and Management of Funeral Business**

(A-F only; Prereq: Mortuary science majorWI)

59416 001 LEC, 9:00-11:30 F, Jackson Hall 2-125, In Person Term Based; Molly Diethelm; 3 cr.

**3014 Funeral Service Rules and Regulations**

(A-F only; Prereq: Mortuary science major)

52649 001 LEC, 11:20-13:00 Th, Jackson Hall 2-125, In Person Term Based; Michael Mathews; 2 cr.

**3016 Funeral Service Marketing and Merchandising**

(A-F or Audit; Prereq: Mortuary science major)

52998 001 LEC, In Person Term Based; 3 cr.

**3019 History & Practice of Funeral Directing II: 1861 - Present**

(A-F only; Prereq: 3018, mortuary science major)

52701 001 LEC, 8:30-11:00 Th, Jackson Hall 2-125, In Person Term Based; Molly Diethelm; 3 cr.

**3022W Funeral Service Arrangements**

(A-F only; Prereq: 3018, 3021WWW)

50900 001 LEC, 12:00-13:00 T, , 12:00-14:30 T, Jackson Hall 2-125, In Person Term Based; Angela Woosley; 3 cr.

57413 002 LAB, 11:00-13:00 W, Jackson Hall 2-125, In Person Term Based; Angela Woosley; 3 cr.

57903 003 LAB, 14:00-16:00 M, Jackson Hall 2-125, In Person Term Based; Angela Woosley; 3 cr.

**3030 Funeral Service Law**

(A-F only; Prereq: 3025)

50901 001 LEC, 16:30-19:25 T, Jackson Hall 2-125, In Person Term Based; Doug Meslow; 2 cr.

**3048 Microbiology and Pathology for Funeral Service**

(A-F only; Prereq: General biology course with lab)

61045 001 LEC, 9:00-10:40 MW, Jackson Hall 2-125, In Person Term Based; Michael Mathews; 4 cr.

**3051 Restorative Art**

(A-F only; Prereq: [3171 or concurrent registration is required (or allowed) in 3171], concurrent registration is required (or allowed) in 3061, mortuary science major)

49657 001 LEC, 9:00-10:40 W, Jackson Hall 2-121, In Person Term Based; Jody LaCourt; 2 cr.

**3061 Embalming Theory**

(A-F only; Prereq: [3171 or concurrent registration is required (or allowed) in 3171], concurrent registration is required (or allowed) in 3051, mortuary science major)

50122 001 LEC, 9:00-11:30 T, Jackson Hall 2-121, In Person Term Based; Jody LaCourt; 3 cr.

### 3065 Embalming Chemistry

(A-F only; Prereq: Intro course in general chemistry)

52650 001 LEC, 9:00-10:40 T, Jackson Hall 2-125, In Person Term Based; Michael Mathews; 2 cr.

### 3151 Restorative Art Laboratory

(A-F only; Prereq: [3171 or concurrent registration is required (or allowed) in 3171], concurrent registration is required (or allowed) in 3051, mortuary science major)

54386 003 LAB, In Person Term Based; ; 1 cr.  
49658 001 LAB, 9:00-11:00 M, Jackson Hall 2-121, In Person Term Based; Jody LaCourt; 1 cr.  
50902 002 LAB, 14:00-16:00 M, Jackson Hall 2-121, In Person Term Based; Jody LaCourt; 1 cr.

### 3161 Embalming Laboratory

(A-F only; Prereq: [3171 or concurrent registration is required (or allowed) in 3171], concurrent registration is required (or allowed) in 3061, mortuary science major)

49430 001 LAB, 13:00-16:00 T, Jackson Hall 5-125A, In Person Term Based; Jody LaCourt; 1 cr.  
51521 003 LAB, 13:15-16:15 Th, Jackson Hall 5-125A, In Person Term Based; Jody LaCourt; 1 cr.  
49431 002 LAB, 13:15-16:15 W, Jackson Hall 5-125A, In Person Term Based; Jody LaCourt; 1 cr.

### 3379 Clinical Funeral Service Rotation

(A-F only; Prereq: 3021W, 3051, 3061, 3151, 3161, 3171, 3370, mortuary science major)

55696 002 ROT, 13:30-15:00 W, , In Person Term Based; Meets With: 001 MORT 3379; Angela Woosley; 1-4 cr.  
50167 001 ROT, 13:30-15:00 W, , In Person Term Based; Meets With: 002 MORT 3379; Angela Woosley; 1-4 cr.

## Moving Image Studies (MIMS)

### 8003 Historiography of the Moving Image

(A-F only; )

68408 001 LEC, 17:00-19:30 T, Nicholson Hall 325, 13:30-16:30 Th, Nicholson Hall 325, In Person Term Based; 3 cr.

## Multi-Inst Cross Registration (MULT)

### 1 Multi-Institution Cross Registration

(No Grade Associated; )

50778 001 LEC, In Person Term Based; 0 cr.

## Multidisciplinary Studies (MDS)

### 3001W Introduction to Multidisciplinary Studies

(A-F only; Prereq: Admitted to multidisciplinary studiesW)

53260 001 LEC, 18:00-21:00 T, McNeal Hall 395, In Person Term Based; Josh Borowicz; 3 cr.  
54754 A94 LEC, Online & Distance Lrng (ODL); Lisa Garrett; 3 cr.

### 3093 Directed Study

(A-F only; Prereq: instr consent)

57583 001 IND, In Person Term Based; Lynn Cross; 1-15 cr.

### 3101 Project Development

(A-F only; Prereq: 3001W, MdS major, adviser referral, permission number, basic computer/internet skills)

58127 A94 LEC, Online & Distance Lrng (ODL); Lisa Garrett; 1 cr.

### 3201 Project Registration 1

(A-F only; Prereq: 3001W, MdS major, C- or above in 3101, approved project proposal, permission number, basic computer and internet skills)

59081 A94 LEC, Online & Distance Lrng (ODL); Lisa Garrett; 3 cr.

### 3202 Project Registration 2

(A-F only; Prereq: 3001W, MdS major status, C- or above 3101, approved project proposal, permission number, basic computer/internet skills)

59087 A94 LEC, Online & Distance Lrng (ODL); Lisa Garrett; 3 cr.

### 3203 Project Registration 3

(A-F only; Prereq: 3001W, MdS major, C- or above 3101, approved project proposal, permission number, basic computer/internet skills)

59088 A94 LEC, Online & Distance Lrng (ODL); Lisa Garrett; 3 cr.

## Museum Studies (MST)

### 5012 Museum Practices

(A-F or Audit; Prereq: Grad student or instr consent)

48158 001 LEC, 14:30-17:15 W, Weisman Art Museum 111, In Person Term Based; Lyndel King; 3 cr.

## Music (MUS)

### 440 Chamber Ensemble Registration

(No Grade Associated; )

53286 003 LAB, In Person Term Based; Immanuel Davis; 0 cr.

53285 002 LAB, In Person Term Based; Mark Bjork; 0 cr.

53284 001 LAB, In Person Term Based; Lydia Artymiw; 0 cr.

### 901 Junior Recital

(A-F or Audit; Prereq: Music major, concurrent registration is required (or allowed) in applied music, instr consent, dept consent)

47308 001 DIS, In Person Term Based; 0 cr.

### 951 Senior Recital

(A-F or Audit; Prereq: Music major, concurrent registration is required (or allowed) in applied music, instr consent, dept consent)

47309 001 DIS, In Person Term Based; 0 cr.

### 1013 Rock I: The Historical Origins and Development of Rock Music to 1970

(A-F or Audit; AH,DSJ)

61472 A94 LEC, Online & Distance Lrng (ODL); Alex Lubet; 3 cr.

### 1014 Rock II: Rock Music from 1970 to the Present

(Student Option; AH,DSJ)

52525 012 DIS, 13:25-14:15 F, Ferguson Hall 105, In Person Term Based; 3 cr.

50894 003 DIS, 8:00- 8:50 F, Ferguson Hall 107, In Person Term Based; 3 cr.

52522 009 DIS, 12:20-13:10 F, Ferguson Hall 107, In Person Term Based; 3 cr.

52526 013 DIS, 13:25-14:15 F, Ferguson Hall 107, In Person Term Based; 3 cr.

52524 011 DIS, 14:30-15:20 F, Ferguson Hall 123, In Person Term Based; 3 cr.

52520 007 DIS, 11:15-12:05 F, Ferguson Hall 149, In Person Term Based; 3 cr.

52523 010 DIS, 12:20-13:10 F, Ferguson Hall 149, In Person Term Based; 3 cr.

52528 015 DIS, 13:25-14:15 F, Ferguson Hall 149, In Person Term Based; 3 cr.

50893 002 DIS, 8:00- 8:50 F, Ferguson Hall 105, In Person Term Based; 3 cr.

50897 006 DIS, 11:15-12:05 F, Ferguson Hall 105, In Person Term Based; 3 cr.

50896 005 DIS, 9:05- 9:55 F, Ferguson Hall 107, In Person Term Based; 3 cr.

50895 004 DIS, 9:05- 9:55 F, Ferguson Hall 105, In Person Term Based; 3 cr.

50892 001 LEC, 12:20-13:10 MW, TCF Bank Stadium G065A, In Person Term Based; Cade Herrig; 3 cr.

52521 008 DIS, 12:20-13:10 F, Ferguson Hall 105, In Person Term Based; Cade Herrig; 3 cr.

52527 014 DIS, 13:25-14:15 F, Ferguson Hall 123, In Person Term Based; 3 cr.

### 1021 Introduction to Music

(Student Option; AH)

49723 001 LEC, 10:10-11:00 MWF, Ferguson Hall 225, In Person Term Based; Meets With: 001 MUS 3021; David Grayson; 3 cr.

### 1051 Class Piano for Nonmusic Majors I

(Student Option No Audit; )

46815 006 LEC, 9:05- 9:55 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

46810 001 LEC, 9:05- 9:55 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

46811 002 LEC, 12:20-13:10 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

49726 007 LEC, 13:25-14:15 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

46812 003 LEC, 13:25-14:15 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

49727 008 LEC, 14:30-15:20 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

46814 005 LEC, 15:35-16:25 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

46813 004 LEC, 14:30-15:20 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

### 1052 Class Piano for Non Music Majors II (Student Option No Audit; )

46830 001 LEC, 12:20-13:10 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

### 1152 Piano: Class Lessons II

(A-F or Audit; Prereq: instr consent)

46851 003 LEC, 10:10-11:00 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

46849 001 LEC, 10:10-11:00 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

46852 004 LEC, 11:15-12:05 TTh, Ferguson Hall 265, In Person Term Based; 2 cr.

46850 002 LEC, 11:15-12:05 MW, Ferguson Hall 265, In Person Term Based; 2 cr.

### 1260 Voice Class

(Student Option; Prereq: Basic musicianship for learning and performing simple songs)

46892 001 LEC, 10:10-11:00 MW, Ferguson Hall 90, In Person Term Based; Jean Del Santo; 2 cr.

46894 003 LEC, 18:15-20:00 Th, Ferguson Hall 90, In Person Term Based; Jean Del Santo; 2 cr.

46893 002 LEC, 18:15-20:00 T, Ferguson Hall 90, In Person Term Based; Jean Del Santo; 2 cr.

### 1471 Guitar: Class Lessons I

(A-F or Audit; )

47282 001 LEC, 13:25-14:15 MW, Ferguson Hall 105, In Person Term Based; Maja Radovanlija; 2 cr.

49022 002 LEC, 14:30-15:20 MW, Ferguson Hall 105, In Person Term Based; Maja Radovanlija; 2 cr.

51309 006 LEC, 15:35-16:25 TTh, Ferguson Hall 105, In Person Term Based; Maja Radovanlija; 2 cr.

50293 003 LEC, 15:35-16:25 MW, Ferguson Hall 105, In Person Term Based; Maja Radovanlija; 2 cr.

50311 004 LEC, 13:25-14:15 TTh, Ferguson Hall 107, In Person Term Based; Maja Radovanlija; 2 cr.

50315 005 LEC, 14:30-15:20 TTh, Ferguson Hall 107, In Person Term Based; Maja Radovanlija; 2 cr.

51682 008 LEC, 18:30-20:30 W, Ferguson Hall 107, In Person Term Based; Maja Radovanlija; 2 cr.

51681 007 LEC, 18:30-20:30 M, Ferguson Hall 107, In Person Term Based; Maja Radovanlija; 2 cr.

59042 009 LEC, 18:30-20:30 T, Ferguson Hall 107, In Person Term Based; Maja Radovanlija; 2 cr.

### 1472 Guitar: Class Lessons II

(A-F or Audit; Prereq: 1471 or instr consent)

52566 001 LEC, 16:40-17:30 MW, Ferguson Hall 105, In Person Term Based; Maja Radovanlija; 2 cr.

### 1502 Theory and Analysis of Tonal Music II

(A-F or Audit; Prereq: [1501, 1511 with grade of at least C-] or diagnostic test administered by School of Music)

47004 001 LEC, 8:00- 8:50 WF, Ferguson Hall 225, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

50137 002 DIS, 9:05- 9:55 M, Ferguson Hall 105, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

50140 005 DIS, 9:35-10:25 T, Ferguson Hall 105, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

50138 003 DIS, 9:05- 9:55 M, Ferguson Hall 123, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

51310 006 DIS, 9:35-10:25 T, Ferguson Hall 123, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

50139 004 DIS, 9:05- 9:55 M, Ferguson Hall 149, In Person Term Based; Matt Bribitzer-Stull; 2 cr.

### 1512 Ear-Training and Sight-Singing II

(A-F or Audit; Prereq: [1501, 1511 with grade of at least C-] or diagnostic exam administered by School of Music, [music major or instr consent])

53622 001 LEC, 8:00- 8:50 M, Ferguson Hall 225, In Person Term Based; Matt Bribitzer-Stull; 1 cr.

53623 002 DIS, 9:05- 9:55 W, Ferguson Hall 105, In Person Term Based; Matt Bribitzer-Stull; 1 cr.

53626 005 DIS, 9:35-10:25 Th, Ferguson Hall 105, In Person Term Based; Matt Bribitzer-Stull; 1 cr.

53624 003 DIS, 9:05-9:55 W, Ferguson Hall 123, In Person Term Based; Matt Brittizer-Stull; 1 cr.  
 54293 006 DIS, 9:35-10:25 Th, Ferguson Hall 123, In Person Term Based; Matt Brittizer-Stull; 1 cr.  
 53625 004 DIS, 9:05-9:55 W, Ferguson Hall 149, In Person Term Based; Matt Brittizer-Stull; 1 cr.

### 1804 World Music

(Student Option; AH,GP)  
 47396 001 LEC, 13:00-14:15 MW, Ferguson Hall 225, In Person Term Based; Matthew Rahaim; 3 cr.

### 1905 Topics: Freshman Seminar

(A-F or Audit; Prereq: freshman)  
 68742 001 LEC, In Person Term Based; 3 cr.  
 68743 002 LEC, 16:00-17:15 TTh, Ferguson Hall 115, In Person Term Based; Tim Brock; 3 cr.

### 3021 Introduction to Music

(Student Option; AH)  
 47310 001 LEC, 10:10-11:00 MWF, Ferguson Hall 225, In Person Term Based; Meets With: 001 MUS 1021; David Grayson; 3 cr.

### 3200 Campus Singers

(Student Option; )  
 58058 004 LAB, 15:35-17:05 MW, Ferguson Hall 225, In Person Term Based; Matthew Mehafey; 2 cr.  
 57078 001 LAB, 12:15-13:15 TTh, Ferguson Hall 90, In Person Term Based; Kathy Romey; 2 cr.  
 57080 003 LAB, 18:00-20:00 W, Ferguson Hall 90, In Person Term Based; Kathy Romey; 2 cr.  
 57079 002 LAB, 18:00-20:00 M, Ferguson Hall 90, In Person Term Based; Kathy Romey; 2 cr.

### 3230 Chorus

(Student Option; Prereq: Choral and/or instrumental music background, audition, instr consent)  
 46980 001 LAB, 15:35-17:05 MW, Ferguson Hall 90, In Person Term Based; Meets With: 001 MUS 5230; Kathy Romey; 1-2 cr.

### 3242 Vocal Literature (French Melodie) and Pedagogy

(A-F or Audit; Prereq: [Vocal music or accompanying major], 2 yrs of music theory/history)  
 59629 001 LEC, Partially Online; 1 cr.

### 3261 Italian Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent registration is required (or allowed) in applied voice)  
 54770 001 LAB, 11:15-12:05 MW, Ferguson Hall 115, In Person Term Based; Jean Del Santo; 1 cr.

### 3264 French Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent enroll in applied voice)  
 47209 001 LEC, 11:15-12:05 TTh, Ferguson Hall 115, In Person Term Based; Jean Del Santo; 1 cr.

### 3331 Jazz Improvisation I

(A-F or Audit; Prereq: Music major or instr consent)  
 59937 001 LAB, In Person Term Based; Dean Sorenson; 2 cr.

### 3340 Jazz Ensemble

(A-F or Audit; Prereq: Audition, instr consent)  
 46972 002 LAB, 11:15-12:05 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 5340; Dean Sorenson; 1 cr.  
 46971 001 LAB, 15:35-17:00 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5340; Dean Sorenson; 1 cr.

### 3350 Jazz Combo

(A-F or Audit; Prereq: Audition, instr consent)  
 46895 001 LAB, 10:10-11:00 MW, Ferguson Hall 3, In Person Term Based; Philip Hey; 1 cr.  
 46896 002 LAB, 11:15-12:05 MW, Ferguson Hall 3, In Person Term Based; Philip Hey; 1 cr.  
 46897 003 LAB, 12:20-13:10 MW, Ferguson Hall 3, In Person Term Based; Philip Hey; 1 cr.

### 3400 University and Campus Bands

(Student Option; )  
 54833 003 LAB, 19:00-21:00 W, TCF Bank Stadium G065A, In Person Term Based; Dennis Hawkins; 2 cr.  
 53552 001 LAB, 19:00-20:30 MTh, Ferguson Hall 95, In Person Term Based; Laura Sindberg; 2 cr.  
 58042 004 LAB, 19:00-21:00 Th, TCF Bank Stadium G065A, In Person Term Based; Lindsay Boyd; 2 cr.  
 53553 002 LAB, 19:00-21:00 M, TCF Bank Stadium G065A, In Person Term Based; Melanie Brooks; 2 cr.

### 3401 Basic Conducting

(A-F or Audit; Prereq: 1502, music major)  
 47522 003 LAB, 11:15-12:05 WF, Ferguson Hall 85, In Person Term Based; Timothy Diem; 2 cr.  
 47520 001 LEC, 11:15-12:05 M, Ferguson Hall 85, In Person Term Based; Craig Kirchoff; 2 cr.  
 47521 002 LAB, 11:15-12:05 TTh, Ferguson Hall 85, In Person Term Based; Craig Kirchoff; 2 cr.

### 3410 University Wind Bands

(A-F or Audit; Prereq: Audition, instr consent)  
 47432 001 LAB, 13:25-15:20 MTWThF, Room TBA, In Person Term Based; Meets With: 001 MUS 5410; Jerry Luckhardt; 1 cr.  
 47433 002 LAB, 14:25-15:20 F, Room TBA, 13:25-15:20 MW, Room TBA, In Person Term Based; Meets With: 002 MUS 5410; Timothy Diem; 1 cr.

### 3420 Orchestra

(A-F or Audit; Prereq: Audition, instr consent)  
 47128 001 LAB, 13:25-15:20 MTWThF, Ferguson Hall 85, In Person Term Based; Meets With: 001 MUS 5420; Mark Russell Smith; 1 cr.

### 3430 Campus Orchestra

(Student Option; Prereq: Non-music major or unable to register for University Orchestra)  
 47503 001 LAB, 18:00-19:00 MW, Ferguson Hall 85, In Person Term Based; 2 cr.  
 55506 002 LAB, 19:15-20:15 MW, Ferguson Hall 85, In Person Term Based; 2 cr.  
 57403 003 LAB, 18:00-20:00 T, Ferguson Hall 85, In Person Term Based; 2 cr.

### 3440 Chamber Ensemble

(A-F or Audit; Prereq: instr consent)  
 47124 002 LAB, In Person Term Based; Meets With: 002 MUS 5440; 1 cr.  
 47125 003 LAB, In Person Term Based; Meets With: 003 MUS 5440; 1 cr.  
 47126 004 LAB, In Person Term Based; Meets With: 004 MUS 5440; 1 cr.  
 47127 005 LAB, In Person Term Based; Meets With: 005 MUS 5440; 1 cr.  
 47123 001 LAB, In Person Term Based; Meets With: 001 MUS 5440; Young-Nam Kim; 1 cr.

### 3490 Athletics Bands

(A-F or Audit; Prereq: instr consent)  
 51045 001 LAB, In Person Term Based; Timothy Diem; 1 cr.  
 51046 002 LAB, In Person Term Based; Timothy Diem; 1 cr.  
 51047 003 LAB, In Person Term Based; Timothy Diem; 1 cr.

### 3508 Review of Tonal Theory

(Student Option; Prereq: Theory placement exam)  
 59620 001 LEC, In Person Term Based; 2 cr.

### 3518 Review of Ear-Training and Sight-Singing

(Student Option; Prereq: Theory Placement Exam)  
 59621 001 LEC, In Person Term Based; 1 cr.

### 3601W History of Western Music I

(A-F or Audit; Prereq: dept consentWI)  
 47312 001 LEC, 8:00-9:25 TTh, Ferguson Hall 225, In Person Term Based; Kelley Harness; 3 cr.  
 47315 004 DIS, 10:10-11:00 F, Ferguson Hall 105, In Person Term Based; Kelley Harness; 3 cr.  
 47316 005 DIS, 10:10-11:00 F, Ferguson Hall 115, In Person Term Based; Kelley Harness; 3 cr.  
 47314 003 DIS, 9:05-9:55 F, Ferguson Hall 149, In Person Term Based; Kelley Harness; 3 cr.  
 47313 002 DIS, 9:05-9:55 F, Ferguson Hall 123, In Person Term Based; Kelley Harness; 3 cr.

### 3603W History of Western Music III

(A-F or Audit; Prereq: [[3501 3511, 3602] with a grade of at least C-, music major] or instr consentWI)  
 49705 001 LEC, 9:35-11:00 TTh, Ferguson Hall 225, In Person Term Based; David Grayson; 3 cr.  
 49706 002 DIS, 8:00-8:50 F, Ferguson Hall 123, In Person Term Based; David Grayson; 3 cr.  
 49708 004 DIS, 10:10-11:00 F, Ferguson Hall 123, In Person Term Based; David Grayson; 3 cr.  
 49707 003 DIS, 8:00-8:50 F, Ferguson Hall 149, In Person Term Based; David Grayson; 3 cr.  
 56511 005 DIS, 10:10-11:00 F, Ferguson Hall 149, In Person Term Based; David Grayson; 3 cr.

### 3950 Topics in Music

(Student Option; )  
 60592 002 LEC, In Person Term Based; 1-3 cr.

### 3993 Directed Studies

(A-F or Audit; Prereq instr consent, dept consent, college consent.)  
 47165 001 IND, In Person Term Based; 1-4 cr.

### 3995 Major Project

(A-F or Audit; Prereq: Undergrad music major in B.A. program, instr consent, dept consent)  
 47167 001 IND, In Person Term Based; 1 cr.

### 4504 Intensive Theory and Analysis of 20th-Century Music

(A-F or Audit; Prereq: [3502, 3512] or instr consent)  
 59655 001 LEC, In Person Term Based; Michael Cherlin; 2 cr.  
 59656 002 LAB, In Person Term Based; Michael Cherlin; 2 cr.  
 59657 003 LAB, In Person Term Based; Michael Cherlin; 2 cr.

### 4514 Ear-Training and Sight-Singing for 20th-Century Music

(A-F or Audit; Prereq: Completion of [3502, 3512] with grade of at least C-)  
 59658 001 LEC, In Person Term Based; Michael Cherlin; 1 cr.  
 59659 002 DIS, In Person Term Based; Michael Cherlin; 1 cr.  
 59660 003 DIS, In Person Term Based; Michael Cherlin; 1 cr.  
 59661 004 DIS, In Person Term Based; Michael Cherlin; 1 cr.  
 59662 005 DIS, In Person Term Based; Michael Cherlin; 1 cr.

### 5150 Body Awareness in Activity: The Alexander Technique for Musicians

(Student Option; )  
 57522 001 LAB, 11:15-12:55 Th, Ferguson Hall 81, In Person Term Based; Brian McCullough; 2 cr.

### 5182 Advanced Piano Literature II

(A-F or Audit; Prereq: grad piano major or instr consent)  
 59622 001 LEC, In Person Term Based; 2 cr.

### 5230 Chorus

(Student Option; Prereq: Choral and/or instrumental music background; audition, instr consent)  
 46981 001 LAB, 15:35-17:05 MW, Ferguson Hall 90, In Person Term Based; Meets With: 001 MUS 3230; Kathy Romey; 1-2 cr.

### 5240 University Singers

(A-F or Audit; Prereq: Audition, instr consent)  
 47436 001 LAB, 12:45-14:15 MWF, Ferguson Hall 99, 12:45-14:15 MWF, Ferguson Hall 90, In Person Term Based; Kathy Romey; 1 cr.  
 69098 002 LAB, 12:45-14:15 MWF, , In Person Term Based; Kathy Romey; 1 cr.

### 5250 Opera Workshop and Ensemble

(A-F or Audit; Prereq: audition, instr consent)  
 47538 001 LAB, 15:35-18:30 TTh, Ferguson Hall 99, In Person Term Based; David Walsh; 2 cr.  
 52511 002 LAB, 18:30-21:30 MTh, Ferguson Hall 99, In Person Term Based; David Walsh; 2 cr.

### 5272 Diction for Singers II

(A-F or Audit; Prereq: 12 cr MusA 1304 or grad music major or instr consent)  
 50507 001 LEC, 10:10-12:05 F, Ferguson Hall 81, In Person Term Based; Philip Zawisza; 2 cr.

### 5280 Opera Theatre

(A-F or Audit; Prereq: audition, instr consent)  
 53197 001 LAB, In Person Term Based; David Walsh; 2 cr.

### 5340 Jazz Ensemble

(A-F or Audit; Prereq: audition, instr consent)  
 46943 002 LAB, 11:15-12:05 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 3340; Dean Sorenson; 1 cr.  
 46942 001 LAB, 15:35-17:00 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 3340; Dean Sorenson; 1 cr.

### 5410 University Wind Bands

(A-F or Audit; Prereq: audition, instr consent)  
 47434 001 LAB, 13:25-15:20 MTWThF, Room TBA, In Person Term Based; Meets With: 001 MUS 3410; Jerry Luckhardt; 1 cr.  
 47435 002 LAB, 14:25-15:20 F, Room TBA, 13:25-15:20 MW, Room TBA, In Person Term Based; Meets With: 002 MUS 3410; Timothy Diem; 1 cr.

### 5420 Orchestra

(A-F or Audit; Prereq: audition, instr consent)  
 47461 001 LAB, 13:25-15:20 MTWThF, Ferguson Hall 85, In Person Term Based; Meets With: 001 MUS 3420; Mark Russell Smith; 1 cr.

**5423 Suzuki Pedagogy Practicum**

(A-F or Audit; Prereq: [(8 5424 or 5425), grad music student] or instr consent, grad consent.)

58322 001 FWK, In Person Term Based; Mark Bjork; 1 cr.

**5427 Violin Pedagogy I**

(A-F or Audit; Prereq: Violin or viola major or instr consent)

59663 001 DIS, 8:30-10:00 F, Ferguson Hall 72, In Person Term Based; Sally O'Reilly; 2 cr.

**5430 Contemporary Music Workshop**

(A-F or Audit; Prereq: instr consent)

60745 001 LEC, 9:30-11:00 F, Ferguson Hall 85, In Person Term Based; Michael Cherlin; 1 cr.

**5440 Chamber Ensemble**

(A-F or Audit; Prereq: audition, instr consent)

47525 002 LAB, In Person Term Based; Meets With: 002 MUS 3440; 1 cr.

47526 003 LAB, In Person Term Based; Meets With: 003 MUS 3440; 1 cr.

47527 004 LAB, In Person Term Based; Meets With: 004 MUS 3440; 1 cr.

47528 005 LAB, In Person Term Based; Meets With: 005 MUS 3440; 1 cr.

47524 001 LAB, In Person Term Based; Meets With: 001 MUS 3440; Young-Nam Kim; 1 cr.

**5450 Orchestral Repertoire**

(A-F or Audit; Prereq: instr consent)

59280 001 LAB, In Person Term Based; 1-3 cr.

**5460 World Music Ensemble**

(Student Option; )

56557 001 LAB, 18:00-20:00 W, Ferguson Hall 95, In Person Term Based; Scott Currie; 1-2 cr.

**5481 Trumpet Pedagogy**

(Student Option; Prereq: Sr or grad in music or instr consent)

59271 001 LEC, In Person Term Based; 2 cr.

**5490 Percussion Ensemble**

(A-F or Audit; Prereq: instr consent)

58179 003 LAB, 15:35-17:05 T, Ferguson Hall 85, 9:30-11:00 M, Ferguson Hall 85, In Person Term Based; Dallas Tucker; 1 cr.

47129 001 LAB, 15:35-17:30 MF, Ferguson Hall 95, In Person Term Based; Fernando Meza; 1 cr.

57405 002 LAB, 16:00-17:30 MW, Ferguson Hall 81, In Person Term Based; Joko Sutrisno; 1 cr.

**5541 16th-Century Counterpoint**

(A-F or Audit; Prereq: [3501, 3508] or pass basic skills exam)

58298 001 LEC, In Person Term Based; Dean Billmeyer; 3 cr.

**5550 Class Composition**

(A-F or Audit; Prereq: [4504, 4514 [with C- or better]] or instr consent)

57406 001 LEC, 19:00-21:00 M, Ferguson Hall 123, In Person Term Based; Alex Lubet; 2 cr.

**5574 Wagner's Ring: Conception, Coherence, Consequence**

(A-F or Audit; Prereq: 3502 or equiv)

59665 001 LEC, In Person Term Based; 3 cr.

**5620 Topics in Opera History**

(A-F or Audit; Prereq: Grad music major or instr consent)

58265 001 LEC, In Person Term Based; Kelley Harness; 3 cr.

**5950 Topics in Music**

(Student Option; )

58297 003 LEC, In Person Term Based; 1-4 cr.

59664 004 LEC, In Person Term Based; 1-4 cr.

58296 002 LEC, In Person Term Based; 1-4 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent, dept consent, college consent.)

47166 001 IND, In Person Term Based; 1-4 cr.

**8110 Sonata Seminar**

(A-F or Audit; Prereq: Accompanying emphasis, strings and winds by audition, instr consent)

60616 001 LAB, In Person Term Based; 2 cr.

(A-F or Audit; Prereq: Grad student in Music or instr consent)

60840 001 LEC, In Person Term Based; 3 cr.

**8170 Advanced Vocal Accompanying Skills and Repertoire**

(A-F or Audit; Prereq: [French, German, Italian diction], accompanying or DMA voice emphasis or MM voice emphasis by audition)

58299 001 LAB, In Person Term Based; 2 cr.

**8299 Performance in Choral Conducting**

(A-F or Audit; Prereq: instr consent)

58321 001 LAB, In Person Term Based; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49144 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49236 001 IND, In Person Term Based; 1 cr.

**8450 Graduate Seminar in Conducting**

(A-F or Audit; Prereq: Grad student in conducting or instr consent)

52512 001 LEC, 19:00-21:00 T, Ferguson Hall 95, 15:45-18:00 T, Ferguson Hall 157, In Person Term Based; Jerry Luckhardt; 3-4 cr.

52513 002 LEC, 9:30-11:00 TTh, Ferguson Hall 90, In Person Term Based; Kathy Romey; 3-4 cr.

52514 003 LEC, 11:00-12:45 MW, Ferguson Hall 81, In Person Term Based; Mark Russell Smith; 3-4 cr.

**8550 Composition**

(A-F or Audit; Prereq: instr consent)

60746 003 IND, In Person Term Based; 3 cr.

58295 002 IND, In Person Term Based; Dean Sorenson; 3 cr.

47003 001 IND, 15:35-17:00 M, Ferguson Hall 123, In Person Term Based; Alex Lubet; 3 cr.

**8560 Readings in Music Theory**

(A-F or Audit; Prereq: instr consent)

59936 001 LEC, In Person Term Based; 3 cr.

**8582 Schenkerian Theory and Analysis II**

(A-F or Audit; Prereq: 8581 or instr consent)

57627 001 LEC, In Person Term Based; 3 cr.

**8590 Topics in 20th-Century Analysis**

(A-F or Audit; )

60600 001 LEC, In Person Term Based; 3 cr.

**8640 Seminar in Musicology**

(A-F or Audit; )

57626 002 LEC, In Person Term Based; David Grayson; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49340 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49428 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49547 001 IND, In Person Term Based; 1-24 cr.

**8994 Directed Research**

(A-F or Audit; Prereq: instr consent)

50161 001 IND, In Person Term Based; 1-3 cr.

**8999 Recital Credits: Doctoral**

(A-F or Audit; Prereq: DMA student, instr consent)

47601 001 DIS, In Person Term Based; 4 cr.

50283 002 DIS, In Person Term Based; 4 cr.

(A-F or Audit; Prereq: dept consent)

46912 001 LAB, In Person Term Based; 2-4 cr.

48865 002 LAB, In Person Term Based; 2-4 cr.

48866 003 LAB, In Person Term Based; 2-4 cr.

**1103 Organ: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)

47005 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**1104 Voice: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)

47006 001 LAB, In Person Term Based; ; 2-4 cr.

48870 003 LAB, In Person Term Based; ; 2-4 cr.

48869 002 LAB, In Person Term Based; ; 2-4 cr.

**1123 Guitar: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)

47196 001 LAB, In Person Term Based; Maja Radovanlija; 2-4 cr.

48875 002 LAB, In Person Term Based; Maja Radovanlija; 2-4 cr.

50358 003 LAB, In Person Term Based; Maja Radovanlija; 2-4 cr.

**1201 Piano: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59653 002 IND, 16:30-18:00 T, , 14:00-15:30 F, , In Person Term Based; Alexander Braginsky; 2 cr.

59654 003 IND, 16:30-18:00 T, , 13:00-15:00 W, , In Person Term Based; Elizabeth Charlson; 2 cr.

59652 001 IND, 16:30-18:00 T, , 12:30-14:00 Th, , In Person Term Based; Lydia Artymiw; 2 cr.

**1204 Voice: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59031 003 IND, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2 cr.

59029 001 IND, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2 cr.

59032 004 IND, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2 cr.

59033 005 IND, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2 cr.

59030 002 IND, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2 cr.

**1211 Oboe: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59034 001 IND, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; John Snow; 2 cr.

**1212 Clarinet: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59035 001 IND, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; Alexander Fiterstein; 2 cr.

**1214 Bassoon: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59052 001 IND, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; 2 cr.

**1215 French Horn: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59036 001 IND, 15:30-17:35 W, , 15:35-17:35 M, , In Person Term Based; Caroline Lemen; 2 cr.

**1216 Trumpet: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59037 001 IND, 15:35-17:30 W, , 15:35-17:35 M, , In Person Term Based; David Baldwin; 2 cr.

**1217 Trombone: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59038 001 IND, 15:30-17:35 W, , 15:35-17:35 M, , In Person Term Based; Thomas Ashworth; 2 cr.

**1219 Tuba: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)

59039 001 IND, 18:00-19:00 T, , In Person Term Based; Steven Campbell; 2 cr.

**1221 Percussion: Music Ed and BA****Music Applied (MUSA)****1101 Piano: Elective (non-major in music)**

**(A-F only; Prereq: [Music education or BA applied] major, dept consent)**  
59040 001 IND, 15:30-16:30 W, , In Person Term Based; Fernando Meza; 2 cr.

**1301 Piano: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48877 002 LAB, 14:00-15:30 F, , 16:30-18:00 T, , In Person Term Based; Alexander Braginsky; 2-4 cr.  
48878 003 LAB, 13:00-15:00 W, , 16:30-18:00 T, , In Person Term Based; Elizabeth Charlson; 2-4 cr.  
47322 001 LAB, 12:30-14:00 Th, , 16:30-18:00 T, , In Person Term Based; Lydia Artymiw; 2-4 cr.

**1302 Harpsichord: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47323 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**1303 Organ: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47324 001 LAB, 13:25-14:15 T, Room TBA, In Person Term Based; Dean Billmeyer; 2-4 cr.

**1304 Voice: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48884 003 LAB, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2-4 cr.  
47329 001 LAB, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2-4 cr.  
48885 004 LAB, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2-4 cr.  
48886 005 LAB, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2-4 cr.  
48883 002 LAB, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2-4 cr.

**1305 Violin: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47606 001 LAB, 15:30-18:30 Th, , In Person Term Based; Mark Bjork; 2-4 cr.  
48897 003 LAB, 15:30-18:30 Th, , In Person Term Based; Sally O'Reilly; 2-4 cr.  
48896 002 LAB, 15:30-18:30 Th, , In Person Term Based; Young-Nam Kim; 2-4 cr.

**1306 Viola: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47607 001 LAB, 15:30-18:30 Th, , In Person Term Based; Korey Konkoli; 2-4 cr.

**1307 Cello: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47608 001 LAB, 15:30-18:30 Th, , In Person Term Based; Tanya Remenikova; 2-4 cr.

**1308 Double Bass: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47609 001 LAB, 15:30-17:30 W, , 17:00-18:30 Th, , In Person Term Based; Christopher Brown; 2-4 cr.

**1309 Flute: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48898 002 LAB, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; Immanuel Davis; 2-4 cr.  
47610 001 LAB, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; Julia Bogorad; 2-4 cr.

**1311 Oboe: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47611 001 LAB, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; John Snow; 2-4 cr.

**1312 Clarinet: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47612 001 LAB, 15:35-17:30 M, Room TBA, 15:45-17:00 W, Room TBA, In Person Term Based; Alexander Fiterstein; 2-4 cr.

**1313 Saxophone: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
53793 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Angela Wyatt; 2-4 cr.  
48899 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Eugene Rousseau; 2-4 cr.

**1314 Bassoon: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48908 002 LAB, 3:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Charles Ullery; 2-4 cr.  
47613 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Miller Jr; 2-4 cr.

**1315 French Horn: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48911 002 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen; 2-4 cr.

**1316 Trumpet: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47614 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; David Baldwin; 2-4 cr.

**1317 Trombone: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47615 001 LAB, 15:30-17:35 W, , 15:35-17:35 M, , In Person Term Based; Thomas Ashworth; 2-4 cr.

**1318 Euphonium: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47616 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; John Tranter; 2-4 cr.

**1319 Tuba: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47617 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; Steven Campbell; 2-4 cr.

**1321 Percussion: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
48912 002 LAB, In Person Term Based; Fernando Meza; 2-4 cr.  
50237 003 LAB, In Person Term Based; Peter Kogan; 2-4 cr.  
47618 001 LAB, In Person Term Based; Philip Hey; 2-4 cr.

**1322 Harp: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47619 001 LAB, In Person Term Based; Kathy Kienzle; 2-4 cr.

**1323 Guitar: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47620 001 LAB, 15:30-17:00 F, Room TBA, In Person Term Based; Maja Radovanlija; 2-4 cr.

**1401 Piano: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Music major, dept consent)**  
47772 001 LAB, In Person Term Based; Rebecca Shockley; 2-4 cr.  
48867 002 LAB, In Person Term Based; Rebecca Shockley; 2-4 cr.  
48868 003 LAB, In Person Term Based; Rebecca Shockley; 2-4 cr.

**1403 Organ: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47773 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**1404 Voice: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47774 001 LAB, In Person Term Based; 2-4 cr.  
48871 002 LAB, In Person Term Based; 2-4 cr.  
48872 003 LAB, In Person Term Based; 2-4 cr.

**1405 Violin: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47775 001 LAB, In Person Term Based; 2-4 cr.

**1414 Bassoon: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
57457 001 LAB, In Person Term Based; Norbert Nielubowski; 2-4 cr.

**1421 Percussion: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
61297 001 LAB, In Person Term Based; Philip Hey; 2-4 cr.

**1423 Guitar: Music Major Secondary (undergraduate)**

**(A-F or Audit; Prereq: Audition, dept consent)**  
47778 001 LAB, In Person Term Based; James Flegel; 2-4 cr.  
48876 002 LAB, In Person Term Based; James Flegel; 2-4 cr.  
50359 003 LAB, In Person Term Based; James Flegel; 2-4 cr.

**2204 Voice: Music Education and BA****(A-F only; Prereq: dept consent)**

59649 003 IND, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2 cr.  
59647 001 IND, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2 cr.  
59650 004 IND, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2 cr.  
59651 005 IND, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2 cr.  
59648 002 IND, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2 cr.

**2301 Piano: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49575 002 LAB, 14:00-15:30 F, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Alexander Braginsky; 2-4 cr.  
49576 003 LAB, 13:00-15:00 W, , 16:30-18:00 T, , In Person Term Based; Elizabeth Charlson; 2-4 cr.  
49574 001 LAB, 12:30-14:00 Th, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Lydia Artymiw; 2-4 cr.

**2302 Harpsichord: Music Major**

**(A-F or Audit; Prereq: Audition, instr consent)**  
49577 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**2303 Organ: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49578 001 LAB, 13:25-14:15 T, Room TBA, In Person Term Based; Dean Billmeyer; 2-4 cr.

**2304 Voice: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49581 003 LAB, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2-4 cr.  
49579 001 LAB, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2-4 cr.  
49582 004 LAB, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2-4 cr.  
49583 005 LAB, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2-4 cr.  
49580 002 LAB, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2-4 cr.

**2305 Violin: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49584 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Mark Bjork; 2-4 cr.  
49586 003 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Sally O'Reilly; 2-4 cr.  
49585 002 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Young-Nam Kim; 2-4 cr.

**2306 Viola: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49587 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Korey Konkoli; 2-4 cr.

**2307 Cello: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49588 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Tanya Remenikova; 2-4 cr.

**2308 Double Bass: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49589 001 LAB, 15:30-17:30 W, Room TBA, 17:00-18:30 Th, Room TBA, In Person Term Based; Christopher Brown; 2-4 cr.

**2309 Flute: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49591 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Immanuel Davis; 2-4 cr.  
49590 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Julia Bogorad; 2-4 cr.

**2311 Oboe: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49592 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Snow; 2-4 cr.

**2312 Clarinet: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49593 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Alexander Fiterstein; 2-4 cr.

**2313 Saxophone: Music Major**

**(A-F or Audit; Prereq: Audition, dept consent)**  
49595 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Angela Wyatt; 2-4 cr.

49594 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Eugene Rousseau; 2-4 cr.

### 2314 Bassoon: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49597 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Charles Ullery; 2-4 cr.  
49596 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Miller Jr; 2-4 cr.

### 2315 French Horn: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49598 002 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen; 2-4 cr.

### 2316 Trumpet: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49599 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; David Baldwin; 2-4 cr.

### 2317 Trombone: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49600 001 LAB, 15:30-17:35 W, 15:35-17:35 M, In Person Term Based; Thomas Ashworth; 2-4 cr.

### 2318 Euphonium: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49601 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; John Tranter; 2-4 cr.

### 2319 Tuba: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49602 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; Steven Campbell; 2-4 cr.

### 2321 Percussion: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49604 002 LAB, In Person Term Based; Fernando Meza; 2-4 cr.  
50238 003 LAB, In Person Term Based; Peter Kogan; 2-4 cr.  
49603 001 LAB, In Person Term Based; Philip Hey; 2-4 cr.

### 2322 Harp: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49605 001 LAB, In Person Term Based; Kathy Kienzle; 2-4 cr.

### 2323 Guitar: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

49606 001 LAB, 15:30-17:00 F, Room TBA, In Person Term Based; Maja Radovanlija; 2-4 cr.

### 3101 Piano: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

51726 001 LAB, In Person Term Based; 2-4 cr.  
53205 002 LAB, In Person Term Based; 2-4 cr.  
53206 003 LAB, In Person Term Based; 2-4 cr.

### 3103 Organ: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

47277 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

### 3104 Voice: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

51123 001 LAB, In Person Term Based; 2-4 cr.  
53207 002 LAB, In Person Term Based; 2-4 cr.  
53208 003 LAB, In Person Term Based; 2-4 cr.  
53209 004 LAB, In Person Term Based; 2-4 cr.

### 3105 Violin: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

48873 001 LAB, In Person Term Based; ; 2-4 cr.  
50349 002 LAB, In Person Term Based; ; 2-4 cr.

### 3121 Percussion: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

47306 001 LAB, In Person Term Based; Fernando Meza; 2-4 cr.  
48874 002 LAB, In Person Term Based; Fernando Meza; 2-4 cr.

### 3123 Guitar: Elective (non-major in music)

(A-F or Audit; Prereq: dept consent)

47307 001 LAB, In Person Term Based; James Flegel; 2-4 cr.  
54271 002 LAB, In Person Term Based; James Flegel; 2-4 cr.  
54272 003 LAB, In Person Term Based; James Flegel; 2-4 cr.

### 3204 Voice: Music Education and BA

(A-F only; )

59577 003 IND, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2 cr.  
59575 001 IND, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2 cr.  
59578 004 IND, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2 cr.  
59579 005 IND, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2 cr.  
59576 002 IND, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2 cr.

### 3301 Piano: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48879 002 LAB, 14:00-15:30 F, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Alexander Braginsky; 2-4 cr.  
48880 003 LAB, 13:00-15:00 W, , 16:30-18:00 T, , In Person Term Based; Elizabeth Charlson; 2-4 cr.  
47621 001 LAB, 12:30-14:00 Th, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Lydia Artyimi; 2-4 cr.

### 3302 Harpsichord: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47622 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

### 3303 Organ: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47633 001 LAB, 13:25-14:15 T, Room TBA, In Person Term Based; Dean Billmeyer; 2-4 cr.

### 3304 Voice: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48888 003 LAB, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2-4 cr.  
47634 001 LAB, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2-4 cr.  
48889 004 LAB, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2-4 cr.  
48890 005 LAB, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2-4 cr.  
48887 002 LAB, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2-4 cr.

### 3305 Violin: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47635 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Mark Bjork; 2-4 cr.  
56895 003 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Sally O'Reilly; 2-4 cr.  
48900 002 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Young-Nam Kim; 2-4 cr.

### 3306 Viola: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47680 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Korey Konkol; 2-4 cr.

### 3307 Cello: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47681 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Tanya Remenikova; 2-4 cr.

### 3308 Double Bass: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47682 001 LAB, 15:30-17:30 W, Room TBA, 17:00-18:30 Th, Room TBA, In Person Term Based; Christopher Brown; 2-4 cr.

### 3309 Flute: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48904 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Immanuel Davis; 2-4 cr.  
47683 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Julia Bogorad; 2-4 cr.

### 3311 Oboe: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47684 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Snow; 2-4 cr.

### 3312 Clarinet: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47685 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Alexander Fiterstein; 2-4 cr.

### 3313 Saxophone: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48905 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Angela Wyatt; 2-4 cr.

47686 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Eugene Rousseau; 2-4 cr.

### 3314 Bassoon: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48909 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Charles Ullery; 2-4 cr.  
47687 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Miller Jr; 2-4 cr.

### 3315 French Horn: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48913 002 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen; 2-4 cr.

### 3316 Trumpet: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47688 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; David Baldwin; 2-4 cr.

### 3317 Trombone: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47689 001 LAB, 15:30-17:35 W, , 15:35-17:35 M, , In Person Term Based; Thomas Ashworth; 2-4 cr.

### 3318 Euphonium: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47690 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; John Tranter; 2-4 cr.

### 3319 Tuba: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47691 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; Steven Campbell; 2-4 cr.

### 3321 Percussion: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

48915 002 LAB, In Person Term Based; Fernando Meza; 2-4 cr.  
50239 003 LAB, In Person Term Based; Peter Kogan; 2-4 cr.  
47694 001 LAB, In Person Term Based; Philip Hey; 2-4 cr.

### 3322 Harp: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47695 001 LAB, In Person Term Based; Kathy Kienzle; 2-4 cr.

### 3323 Guitar: Music Major

(A-F or Audit; Prereq: Audition, dept consent)

47696 001 LAB, 15:30-17:00 F, Room TBA, In Person Term Based; Maja Radovanlija; 2-4 cr.

### 5101 Piano: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47311 001 LAB, In Person Term Based; ; 2 cr.

### 5103 Organ: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47317 001 LAB, In Person Term Based; Dean Billmeyer; 2 cr.

### 5104 Voice: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47318 001 LAB, In Person Term Based; 2 cr.

### 5105 Violin: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47319 001 LAB, In Person Term Based; 2 cr.  
48901 002 LAB, In Person Term Based; ; 2 cr.

### 5121 Percussion: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47320 001 LAB, In Person Term Based; Fernando Meza; 2 cr.

### 5123 Guitar: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)

47321 001 LAB, In Person Term Based; James Flegel; 2 cr.

### 5401 Piano: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)

47779 001 LAB, In Person Term Based; 2-4 cr.



**5403 Organ: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48199 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**5404 Voice: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48200 001 LAB, In Person Term Based; 2-4 cr.

**5405 Violin: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48201 001 LAB, In Person Term Based; 2-4 cr.

**5421 Percussion: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48206 001 LAB, In Person Term Based; 2-4 cr.

**5423 Guitar: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48916 002 LAB, In Person Term Based; 2-4 cr.

**8301 Piano: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48881 002 LAB, 14:00-15:30 F, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Alexander Braginsky; 2-4 cr.  
48882 003 LAB, 13:00-15:00 W, , 16:30-18:00 T, , In Person Term Based; Elizabeth Charlson; 2-4 cr.  
47733 001 LAB, 12:30-14:00 Th, Room TBA, 16:30-18:00 T, Room TBA, In Person Term Based; Lydia Artymiw; 2-4 cr.

**8302 Harpsichord: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47734 001 LAB, In Person Term Based; Dean Billmeyer; 2-4 cr.

**8303 Organ: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47735 001 LAB, 13:25-14:15 T, Room TBA, In Person Term Based; Dean Billmeyer; 2-4 cr.

**8304 Voice: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48893 003 LAB, 14:30-15:30 TTh, , In Person Term Based; Adriana Zabala; 2-4 cr.  
47744 001 LAB, 14:30-15:30 TTh, , In Person Term Based; Jean Del Santo; 2-4 cr.  
48894 004 LAB, 14:30-15:30 TTh, , In Person Term Based; John De Haan; 2-4 cr.  
48895 005 LAB, 14:30-15:30 TTh, , In Person Term Based; Philip Zawisza; 2-4 cr.  
48892 002 LAB, 14:30-15:30 TTh, , In Person Term Based; Wendy Zaro-Mullins; 2-4 cr.

**8305 Violin: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47745 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Mark Bjork; 2-4 cr.  
48903 003 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Sally O'Reilly; 2-4 cr.  
48902 002 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Young-Nam Kim; 2-4 cr.

**8306 Viola: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47750 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Korey Konkol; 2-4 cr.

**8307 Cello: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47751 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Tanya Remenikova; 2-4 cr.

**8308 Double Bass: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47752 001 LAB, 15:30-17:30 W, Room TBA, 17:00-18:30 Th, Room TBA, In Person Term Based; Christopher Brown; 2-4 cr.

**8309 Flute: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48906 002 LAB, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; Immanuel Davis; 2-4 cr.  
47753 001 LAB, 15:45-17:00 W, , 15:35-17:30 M, , In Person Term Based; Julia Bogorad; 2-4 cr.

**8311 Oboe: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47754 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Snow; 2-4 cr.

**8312 Clarinet: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47756 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Alexander Fiterstein; 2-4 cr.

**8313 Saxophone: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48907 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Angela Wyatt; 2-4 cr.  
47758 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Eugene Rousseau; 2-4 cr.

**8314 Bassoon: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48910 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Charles Ullery; 2-4 cr.  
47759 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Miller Jr; 2-4 cr.

**8315 French Horn: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48914 002 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen; 2-4 cr.

**8316 Trumpet: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47762 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; David Baldwin; 2-4 cr.

**8317 Trombone: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47764 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Thomas Ashworth; 2-4 cr.

**8318 Euphonium: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47765 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; John Tranter; 2-4 cr.

**8319 Tuba: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47766 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; Steven Campbell; 2-4 cr.

**8321 Percussion: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48917 002 LAB, In Person Term Based; Fernando Meza; 2-4 cr.  
50240 003 LAB, In Person Term Based; Peter Kogan; 2-4 cr.  
47767 001 LAB, In Person Term Based; Philip Hey; 2-4 cr.

**8322 Harp: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47768 001 LAB, In Person Term Based; Kathy Kienzle; 2-4 cr.

**8323 Guitar: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
47769 001 LAB, 15:30-17:00 F, Room TBA, In Person Term Based; Maja Radovanlija; 2-4 cr.

**8324 Accompanying/Coaching: Music Major (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
48918 001 LAB, In Person Term Based; Timothy Lovelace; 2-4 cr.

**Music Education (MUED)****1201 Introduction to Music Education**

(A-F only; Prereq: Music education major)  
56556 001 LEC, 11:15-12:05 TTh, Ferguson Hall 105, In Person Term Based; Laura Sindberg; 2 cr.

**1801 Introduction to Music Therapy**

(A-F or Audit; )  
49781 001 LEC, 12:20-13:10 MW, Ferguson Hall 107, In Person Term Based; Jessica Nagel; 2 cr.

**3011 Music in Childhood**

(Student Option; )  
57680 001 LEC, 13:25-14:55 MW, Ferguson Hall 107, In Person Term Based; Timothy Buzza; 3 cr.

**3301 General Music I**

(A-F or Audit; Prereq: MUS 3502, MUS 3512, successful completion of soph proficiency exam, music education major)  
54529 001 LEC, 10:00-11:45 TTh, Ferguson Hall 107, In Person Term Based; Akosua Addo; 3 cr.

**3415 Choral Conducting and Methods I**

(A-F only; Prereq: MUS 3502, MUS 3512, [music education major or instr consent], successful completion of soph proficiency exam)  
57706 001 LAB, 8:00- 9:45 TTh, Ferguson Hall 107, In Person Term Based; Keitha Hamann; 3 cr.

**3418 Style, Pedagogy, and Diction in the Choral Music Classroom II**

(A-F only; Prereq: Music education major, two semesters of applied lessons at college level)  
58267 001 LAB, 11:15-12:05 TTh, Ferguson Hall 90, In Person Term Based; Wendy Zaro-Mullins; 2 cr.

**3502 String Techniques and Teaching**

(A-F or Audit; Prereq: Music ed or music therapy major or instr consent)  
50135 001 LEC, 12:20-13:10 MWF, Ferguson Hall 95, In Person Term Based; Emily Heuschele; 2 cr.

**3503 Woodwind Techniques and Teaching**

(A-F or Audit; Prereq: Music ed or music therapy major or instr consent)  
50134 001 LEC, 10:10-11:00 MWF, Ferguson Hall 95, In Person Term Based; Dave Sanderson; 2 cr.

**3516 Instrumental Methods and Conducting I**

(A-F or Audit; Prereq: 1201, 3502, 3503, 3504, 3505, music education major, successful completion of sophomore proficiency)  
57707 001 LEC, 8:00- 9:45 TTh, Ferguson Hall 95, In Person Term Based; Laura Sindberg; 3 cr.

**3803 Guitar II for Music Education and Music Therapy Majors: Developing Group Songleading Skills**

(A-F only; Prereq: 3802 with grade of at least C-, [music therapy or music education major], dept consent)  
55482 001 LAB, 8:00- 8:50 MW, Ferguson Hall 90, In Person Term Based; Edward Schwartzberg; 2 cr.

**3807 Percussion Techniques for Music Therapists**

(A-F or Audit; )  
56777 001 LEC, 13:25-14:15 TTh, Ferguson Hall 151, In Person Term Based; Bryan Maurer; 2 cr.

**5350 Student Teaching in Classroom Music**

(A-F or Audit; Prereq: Music ed major, instr consent)  
52785 501 FWK, Study Abroad; 4-8 cr.  
47304 001 FWK, In Person Term Based; Akosua Addo; 4-8 cr.

**5450 Student Teaching in Vocal Music**

(A-F or Audit; Prereq: Music ed major, instr consent)  
52786 501 FWK, Study Abroad; 4-8 cr.  
47303 001 FWK, In Person Term Based; Keitha Hamann; 4-8 cr.

**5550 Student Teaching in Instrumental Music**

(A-F or Audit; Prereq: Music ed major, instr consent)  
52787 501 FWK, Study Abroad; 4-8 cr.  
46898 001 FWK, In Person Term Based; Laura Sindberg; 4-8 cr.

**5650 Student Teaching Seminar**

(A-F or Audit; Prereq: At least C- in all required [music, music education, professional education] courses)  
53348 501 LEC, Study Abroad; ; 2 cr.  
50136 001 LEC, 16:00-17:45 T, Ferguson Hall 107, In Person Term Based; Akosua Addo; 2 cr.

**5800 Group Music Leadership Skills**

(A-F or Audit; Prereq: [[Completion of [MUS 1151, MUS 1152] or MUS 1155], music therapy major] or instr consent)  
54831 001 LAB, 11:15-12:45 TTh, Ferguson Hall 151, In Person Term Based; Edward Schwartzberg; 3 cr.

**5805 Music Therapy Methods and Procedures II**

(A-F only; Prereq: 5804 or instr consent)

54832 001 LEC, 9:05- 9:55 MWThF, Ferguson Hall 151, In Person Term Based; Michael Silverman; 4 cr.

### 5806 Career Preparation

(A-F or Audit; Prereq: 5805 or instr consent)  
47771 001 LEC, 10:10-11:00 MWThF, Ferguson Hall 151, In Person Term Based; Michael Silverman; 4 cr.

### 5808 Medical Music Therapy

(A-F only; Prereq: Grad music therapy major or instr consent)  
55331 001 LEC, 11:15-12:05 MWF, Ferguson Hall 151, In Person Term Based; Michael Silverman; 3-4 cr.

### 5855 Music Therapy Internship

(S-N or Audit; Prereq: Music therapy major, instr consent)  
48860 001 FWK, In Person Term Based; Michael Silverman; 1-13 cr.

### 5991 Independent Study

(A-F or Audit; Prereq: Music ed or music therapy major or grad, instr consent, dept consent)  
47164 001 IND, In Person Term Based; 1-4 cr.

### 8119 Advanced Applications of Research Methods

(A-F only; Prereq: Grad music education student or instr consent)  
59933 001 LEC, 16:30-19:00 , Ferguson Hall 157, In Person Term Based; Scott Lipscomb; 3 cr.

### 8210 Advanced Music Teaching Seminar

(A-F only; Prereq: Grad student in music education or with music teaching license)  
59935 001 LEC, 18:00-19:45 T, Ferguson Hall 157, In Person Term Based; ; 1 cr.

### 8284 Seminar: Research and Scholarly Issues

(A-F or Audit; Prereq: Doctoral student in music or music education or instr consent)  
59934 001 LEC, 16:30-19:00 M, Ferguson Hall 157, In Person Term Based; Laura Sindberg; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49143 001 IND, In Person Term Based; 1 cr.

### 8880 Master's Research Project

(A-F only; Prereq: Grad music ed major, instr consent)  
47305 001 IND, In Person Term Based; 3-6 cr.

### 8900 Seminar: Music Education Doctoral Seminar

(A-F only; Prereq: dept consent)  
54048 001 LEC, 13:30-15:00 M, Ferguson Hall 157, In Person Term Based; Keitha Hamann; 1 cr.

### 8994 Directed Research

(A-F or Audit; Prereq: instr consent)  
47460 001 IND, In Person Term Based; 1-8 cr.

## Nanoparticle Science and Eng (NPSE)

### 8101 Nanoparticle Science and Engineering Seminar

(S-N or Audit; Prereq: CSE grad student or)  
51066 001 LEC, 16:00-17:00 M, Walter Library 402, In Person Term Based; Sang-Hyun Oh; 1 cr.

## Natural Resources Sci and Mgmt (NR)

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49117 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49216 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49305 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49403 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required. Must be doctoral student with advisor's consent to register.)  
49526 001 IND, In Person Term Based; 1-24 cr.

## Naval Science (NAV)

### 1000 Professional Training in Naval Science

(S-N or Audit; Prereq: enrolled in NROTC)  
48451 001 LAB, 6:15- 8:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 2000001 NAV 3000001 NAV 4000; Michael Jiabia; 1 cr.

### 1102 Seapower and Maritime Affairs

(A-F or Audit; )  
48268 001 LEC, 10:30-11:45 TTh, Armory Building 116, In Person Term Based; Susan Vasquez; 3 cr.

### 2000 Professional Training in Naval Science

(S-N or Audit; Prereq: Soph enrolled in NROTC)  
48452 001 LAB, 6:15- 8:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 3000001 NAV 4000; Michael Jiabia; 1 cr.

### 2202 Ship Systems II: Science and Technology in Naval Weapons Systems

(A-F or Audit; )  
54887 001 LEC, 9:05-10:20 TTh, Armory Building 205, In Person Term Based; Susan Vasquez; 3 cr.

### 3000 Professional Training in Naval Science

(S-N or Audit; Prereq: Jr enrolled in NROTC)  
48453 001 LAB, 6:15- 8:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 2000001 NAV 4000; Michael Jiabia; 1 cr.

### 3301 Navigation I: Piloting and Celestial Navigation

(A-F or Audit; )  
54800 001 LEC, 9:05-10:20 TTh, Armory Building 202, In Person Term Based; Susan Vasquez; 3 cr.

### 4000 Professional Training in Naval Science

(S-N or Audit; Prereq: Sr enrolled in NROTC)  
48454 001 LAB, 6:15- 8:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 2000001 NAV 3000; Michael Jiabia; 1 cr.

### 4402W Leadership and Ethics

(A-F or Audit; Prereq: NAV 4401WCIV,WI)  
48269 001 LEC, 10:30-11:45 TTh, Armory Building 205, In Person Term Based; Susan Vasquez; 3 cr.

## Neurology (NEUR)

### 5240 Cerebrovascular Hemodynamics and Diseases II

(A-F only; )  
55950 001 LEC, 16:30-18:30 MW, , In Person Term Based; Afshin Divani; 4 cr.

### 7120 Selected Problems in Neurology

(H-N or Audit; )  
47994 013 IND, In Person Term Based; David Walk; 1-15 cr.  
47992 011 IND, In Person Term Based; David Walk; 1-15 cr.  
47995 014 IND, In Person Term Based; David Walk; 1-15 cr.  
47993 012 IND, In Person Term Based; Miguel Fiol; 1-15 cr.

### 7124 Sleep Disorders Medicine - Externship

### (H-N or Audit; )

59761 017 FWK, In Person Term Based; Snigdha Pusalavidyasagar; 2 cr.  
59754 010 FWK, In Person Term Based; Snigdha Pusalavidyasagar; 2 cr.  
59756 012 FWK, In Person Term Based; Snigdha Pusalavidyasagar; 2 cr.  
59758 014 FWK, In Person Term Based; Snigdha Pusalavidyasagar; 2 cr.  
59760 016 FWK, In Person Term Based; Snigdha Pusalavidyasagar; 2 cr.  
59753 009 FWK, In Person Term Based; Thomas Gustafson; 2 cr.  
59755 011 FWK, In Person Term Based; Thomas Gustafson; 2 cr.  
59757 013 FWK, In Person Term Based; Thomas Gustafson; 2 cr.  
59759 015 FWK, In Person Term Based; Thomas Gustafson; 2 cr.  
47998 004 FWK, In Person Term Based; Julie Pierce; 2 cr.  
54546 005 FWK, In Person Term Based; Julie Pierce; 2 cr.  
48001 007 FWK, In Person Term Based; Julie Pierce; 2 cr.  
47997 003 FWK, In Person Term Based; Julie Pierce; 2 cr.  
47999 001 FWK, In Person Term Based; Julie Pierce; 2 cr.  
54547 008 FWK, In Person Term Based; Julie Pierce; 2 cr.  
47996 002 FWK, In Person Term Based; Julie Pierce; 2 cr.

### 7510 Externship in Clinical Neurology

(H-N or Audit; )  
48003 001 FWK, 7:30-11:00 F, , In Person Term Based; Miguel Fiol; 4 cr.  
48005 004 FWK, 7:30-11:00 Th, , In Person Term Based; Miguel Fiol; 4 cr.  
48004 003 FWK, 7:30-11:00 F, , In Person Term Based; Miguel Fiol; 4 cr.  
48002 002 FWK, 7:30-11:00 F, , In Person Term Based; Miguel Fiol; 4 cr.

### 7520 Pediatric Neurology Elective

(H-N only; Prereq: The ideal candidate for this elective would have completed both their neurology/pediatric required clerkships. As ensuring completion of this step may be difficult given limited clerkship availability, requests will be considered if at least one of the prerequisites has been completed. Alt: Required: (NEUR 7510, "Externship in Clinical Neurology"))  
59778 005 ROT, In Person Term Based; Gerald Raymond; 3-4 cr.  
59774 001 ROT, In Person Term Based; Gerald Raymond; 3-4 cr.  
59775 002 ROT, In Person Term Based; Gerald Raymond; 3-4 cr.  
59776 003 ROT, In Person Term Based; Gerald Raymond; 3-4 cr.  
59777 004 ROT, In Person Term Based; Gerald Raymond; 3-4 cr.

### 7565 Neurology Clinical Subspecialty Elective

(H-N only; Prereq: 7510)  
53462 001 FWK, In Person Term Based; Julie Pierce; 2-4 cr.

### 7599 Subinternship in Clinical Neurology

(H-N or Audit; Prereq: 7510)  
48006 011 ROT, In Person Term Based; David Walk; 4 cr.  
52912 013 ROT, In Person Term Based; David Walk; 4 cr.  
52913 014 ROT, In Person Term Based; David Walk; 4 cr.  
52911 012 ROT, In Person Term Based; Gary Beaver; 4 cr.

### 7600 Epilepsy Diagnosis and Treatment

(H-N or Audit; )  
52935 010 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
49991 015 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
52934 025 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
52933 020 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
52936 030 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
52931 035 FWK, In Person Term Based; Robert Gumnit; 2 cr.  
52932 040 FWK, In Person Term Based; Robert Gumnit; 2 cr.

### 7910 Neurology Medical Residency

(No Grade Associated; )  
56603 001 FWK, In Person Term Based; Carly Dolan; 6 cr.

### 7930 Neurology Medical Fellowship

(No Grade Associated; )  
56604 001 FWK, In Person Term Based; Pat Bulgerin; 6 cr.

## Neuroscience (NSC)

**5202 Theoretical Neuroscience: Systems and Information Processing**  
(Student Option; Prereq: [3101, 3102W] recommended)

50252 001 LEC, 13:30-15:30 MW, , In Person Term Based;  
David Redish; 3 cr.

### 5462 Neuroscience Principles of Drug Abuse

(Student Option; Prereq: instr consent)  
53259 001 LEC, 14:30-16:25 Th, , In Person Term Based;  
Meets With: 001 PHCL 5462; John Paton; 2 cr.

### 5661W Behavioral Neuroscience

(A-F or Audit; Prereq: Grad NSc major or grad NSc minor or instr consentWI)  
46890 001 DIS, 14:00-16:00 TTh, , In Person Term Based;  
John Paton; 3 cr.

### 8014 Small RNA Biology

(A-F or Audit; Prereq: BIOC 8002 or MICA 8004 or equiv or instr consent)  
57368 001 LEC, 13:00-14:30 Th, , In Person Term Based;  
Meets With: 001 MICA 8014001 GCD 8014001 PHCL 8014;  
Subree Subramanian; 2 cr.

### 8211 Developmental Neurobiology

(A-F or Audit; Prereq: Neuroscience grad student or instr consent)  
48529 001 LEC, 9:15-11:00 TTh, Nils Hasselmo Hall 4-101,  
In Person Term Based; John Paton; 3 cr.

### 8216 Selected Topics in Autonomic and Neuroendocrine Regulation

(S-N or Audit; Prereq: instr consent)  
50083 001 LEC, In Person Term Based; Meets With: 001  
PHSL 8216; William Engeland; 1 cr.

### 8217 Systems and Computational Neuroscience

(S-N or Audit; Prereq: 5561 or instr consent)  
47332 001 LEC, 13:30-15:00 T, , In Person Term Based;  
Geoffrey Ghose; 2 cr.

### 8320 Readings in Neurobiology

(Student Option; )  
55647 015 IND, 16:00-18:00 W, , In Person Term Based;  
John Paton; 1-4 cr.  
50017 005 IND, 14:30-15:30 Th, , In Person Term Based;  
Meets With: 001 PHCL 8320; Carolyn Fairbanks; 1-4 cr.  
52841 008 IND, 11:00-12:30 Th, , In Person Term Based;  
David Redish; 1-4 cr.  
58166 014 IND, In Person Term Based; John Paton; 1-4 cr.  
47331 001 IND, 15:00-16:30 F, , In Person Term Based;  
Jose Pardo; 1-4 cr.  
51675 006 IND, 8:30- 9:30 Th, Jackson Hall 3-159, In Person  
Term Based; Paulo Kofuji; 1-4 cr.  
49003 003 IND, 12:00-13:00 M, Nils Hasselmo Hall 4-250, In  
Person Term Based; Steven McLoon; 1-4 cr.  
52794 007 IND, 16:00-18:00 W, , In Person Term Based;  
Teresa Nick; 1-4 cr.  
49002 002 IND, 9:00-10:15 F, , In Person Term Based; John  
Paton; 1-4 cr.  
49002 002 IND, 9:00-10:15 F, , In Person Term Based; John  
Paton; 1-4 cr.

### 8321 Career Skills and Understanding Responsibilities as a Neuroscientist

(S-N or Audit; Prereq: Neuroscience grad major or instr consent)  
50235 001 LEC, 12:00-13:30 T, , In Person Term Based;  
Meets With: 002 NSC 8321; William Engeland; 0.5 cr.  
50236 002 LEC, 12:00-13:30 T, , In Person Term Based;  
Meets With: 001 NSC 8321; William Engeland; 0.5 cr.

### 8334 Laboratory Neuroscience

(S-N or Audit; Prereq: Grad NSc major)  
47333 001 LAB, In Person Term Based; John Paton; 1-3 cr.

### 8411 Teaching in Neuroscience

(S-N or Audit; Prereq: instr approval)  
50084 001 DIS, In Person Term Based; John Paton; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49237 001 IND, In Person Term Based; John Paton; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49341 001 IND, In Person Term Based; John Paton; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; )  
53109 001 IND, In Person Term Based; John Paton; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49548 001 IND, In Person Term Based; John Paton; 1-24 cr.

## Neuroscience Department (NSCI)

### 1001 Fundamental Neuroscience: Understanding Ourselves

(A-F only; TS)  
55644 001 LEC, 11:15-12:30 TTh, , In Person Term Based;  
John Paton; 3 cr.

### 3001W Neuroscience and Society

(A-F only; CIV,WI)  
58153 001 LEC, 14:30-16:00 TTh, , In Person Term Based;  
Janet Dubinsky; 4 cr.

### 3100 Mind and Brain

(A-F or Audit; Prereq: no prereq (1001, 1100, or other broad neuroscience course recommended))  
60234 001 LEC, 13:00-14:45 MW, , In Person Term Based;  
David Redish; 3 cr.

### 3102W Introduction to Neurobiology II: Perception and Behavior

(A-F or Audit; Prereq: 3101, grade of at least B+ in 3101 recommendedWI)  
60990 008 DIS, 11:15-12:05 M, Room TBA, In Person Term  
Based; John Paton; 3 cr.  
60985 003 DIS, 15:35-16:25 M, , In Person Term Based;  
John Paton; 3 cr.  
60986 004 DIS, 15:35-16:25 M, , In Person Term Based;  
John Paton; 3 cr.  
60987 005 DIS, 15:35-16:25 M, , In Person Term Based;  
John Paton; 3 cr.  
60988 006 DIS, 16:40-17:30 M, , In Person Term Based;  
John Paton; 3 cr.  
60989 007 DIS, 16:40-17:30 M, , In Person Term Based;  
John Paton; 3 cr.  
52390 001 LEC, 15:35-16:25 WF, , In Person Term Based;  
Geoffrey Ghose; 3 cr.  
60984 002 DIS, 14:25-15:15 M, , In Person Term Based;  
John Paton; 3 cr.

### 4167 Neuroscience in the Community

(A-F or Audit; Prereq: instr consent)  
51049 001 FWK, In Person Term Based; Janet Dubinsky; 1-3  
cr.

### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)  
49668 001 IND, In Person Term Based; John Paton; 1-6 cr.

### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)  
49669 001 IND, In Person Term Based; John Paton; 1-6 cr.

### 4993 Directed Studies

(S-N or Audit; Prereq: instr consent, dept consent; max of 7 cr of 4993 and/or 4994 may count toward major requirements)  
48978 001 IND, In Person Term Based; John Paton; 1-7 cr.

### 4994 Directed Research

(S-N or Audit; Prereq: instr consent, dept consent; max of 7 cr of 4993 and/or 4994 may count toward major requirements)  
48979 001 IND, In Person Term Based; John Paton; 1-6 cr.

### 5111 Medical Neuroscience for Graduate Students

(A-F or Audit; Prereq: Credit will not be granted if credit has been received for : 6111; BioC 3021, Biol 4004, instr consent; intended for grad students who require a comprehensive medically-oriented neuroscience course)  
50253 001 LEC, 11:15-12:05 MWFT, Room TBA, 9:05- 9:55 Th, Room TBA, 8:00-12:05 F, Room TBA, 8:00- 8:50 Th, Room TBA, 10:10-11:00 T, Room TBA, In Person Term Based; Anne Edverson; 5 cr.

50255 003 LAB, 15:35-17:30 M, Room TBA, In Person Term Based; Glenn Giesler; 5 cr.

50254 002 LAB, 13:25-15:20 M, Room TBA, In Person Term Based; Glenn Giesler; 5 cr.

### 6110 Neuroscience for Dental Students

(A-F or Audit; Prereq: Credit will not be granted if credit has been received for : 5110; Dental student)  
50564 001 LEC, 9:05- 9:55 TTh, , In Person Term Based;  
William Engeland; 2 cr.

### 6112 Medical Neuroscience for Professional Students

(Student Option; Prereq: BioC 3021, Biol 4004, instr consent; intended for non-medical professional students)  
51089 002 LAB, In Person Term Based; 5 cr.  
51090 003 LAB, In Person Term Based; 5 cr.  
51088 001 LEC, 11:15-12:05 MWFT, , 8:00-12:05 FW, , 13:25-14:15 M, , 13:25-15:20 MW, , 9:05- 9:55 Th, , 8:00- 9:55 M, , 10:10-11:00 T, , 8:00- 8:50 FTh, , In Person Term Based; Anne Edverson; 5 cr.

## Neurosurgery (NSU)

### 7200 Surgical Specialty: Neurosurgery

(P-N or Audit; )  
49633 001 FWK, In Person Term Based; 2-4 cr.  
49634 002 FWK, In Person Term Based; 2-4 cr.

### 7400 Surgical Specialty: Neurosurgery Elective, Duluth

(H-N or Audit; )  
53928 001 FWK, In Person Term Based; 2-4 cr.

### 7500 Externship at the Fairview-University Hospital

(H-N or Audit; )  
49635 001 FWK, In Person Term Based; 2-6 cr.

### 7510 Externship at the VA Medical Center

(H-N or Audit; )  
49636 001 FWK, In Person Term Based; 2-6 cr.

### 7511 Neurosurgical Externship at Hennepin County Medical Center

(H-N or Audit; )  
49637 001 FWK, In Person Term Based; 2-6 cr.

### 7520 Neurosurgical Investigation

(H-N or Audit; )  
49638 001 IND, In Person Term Based; 1-15 cr.

### 7910 Neurosurgery Medical Residency

(No Grade Associated; )  
56682 001 FWK, In Person Term Based; 6 cr.

### 7930 Neurosurgery Medical Fellowship

(No Grade Associated; )  
56683 001 FWK, In Person Term Based; 6 cr.

### 8318 Neuroradiological Conference

(S-N or Audit; )  
49639 001 LEC, In Person Term Based; 1 cr.

### 8320 Neurosurgical Conference

(S-N or Audit; )  
49640 001 LEC, In Person Term Based; 1 cr.

## Norwegian (NOR)

### 1002 Beginning Norwegian

(Student Option; Prereq: 1001)  
53002 002 DIS, 16:40-18:50 MW, Kolthoff Hall 140, In  
Person Term Based; Meets With: 002 NOR 4002; Arsenia  
Ianeva-Lockney; 5 cr.  
47401 001 DIS, 10:10-11:00 MTWThF, Kolthoff Hall 135, In  
Person Term Based; Meets With: 001 NOR 4002; Hanna  
Zmijewska-Emerson; 5 cr.

### 1004 Intermediate Norwegian

(Student Option; Prereq: 1103)  
47403 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 123, In  
Person Term Based; Meets With: 001 NOR 4004; Hanna  
Zmijewska-Emerson; 5 cr.

### 4002 Beginning Norwegian

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)

53003 002 DIS, 16:40-18:50 MW, Kolthoff Hall 140, In Person Term Based; Meets With: 002 NOR 1002; Arsenia Ianeva-Lockney; 2 cr.  
48449 001 DIS, 10:10-11:00 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 001 NOR 1002; Hanna Zmijewska-Emerson; 2 cr.

#### 4004 Intermediate Norwegian

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
48450 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 NOR 1004; Hanna Zmijewska-Emerson; 2 cr.

## Nursing (NURS)

### 777 School of Nursing Professional Active Status

(No Grade Associated; Prereq: instr consent)  
55195 001 IND, In Person Term Based; 0 cr.

### 2001 Human Growth and Development: A Life Span Approach

(Student Option; )  
57035 003 LEC, 9:05-12:05 Th, , In Person Term Based; 3 cr.  
51613 001 LEC, 9:05-12:05 T, , In Person Term Based; 3 cr.  
55191 002 LEC, 9:05-12:05 W, Weaver-Densford Hall 4-111, In Person Term Based; 3 cr.

### 3115 Health Informatics and Information Technology

(A-F only; Prereq: Undergrad or instr consentTS)  
53792 001 LEC, Completely Online; Madeleine Kerr; 3 cr.

### 3690 Life Span, Growth, and Development I

(Student Option; )  
50411 B06 IND, Online & Distance Lrng (ODL); Joan Davis; 2 cr.  
50412 C06 IND, Online & Distance Lrng (ODL); Joan Davis; 2 cr.  
48654 D06 IND, Online & Distance Lrng (ODL); Joan Davis; 2 cr.  
48655 E06 IND, Online & Distance Lrng (ODL); Joan Davis; 2 cr.

### 3691 Life Span, Growth, and Development II

(Student Option; Prereq: 3690, one general psychology and one general biology course or instr consent)  
50413 B06 IND, Online & Distance Lrng (ODL); Joan Davis; 1 cr.  
50414 C06 IND, Online & Distance Lrng (ODL); Joan Davis; 1 cr.  
48656 D06 IND, Online & Distance Lrng (ODL); Joan Davis; 1 cr.  
48657 E06 IND, Online & Distance Lrng (ODL); Joan Davis; 1 cr.

### 3705 Nursing Interventions

(A-F or Audit; Prereq: 3703, enrolled in School of Nursing)  
59289 008 LAB, 8:00-12:05 Th, Rochester Campus Room TBA, In Person Term Based; Carol Flaten; 2 cr.  
56457 003 LAB, 8:00-12:05 Th, , In Person Term Based; Carol Flaten; 2 cr.  
56456 002 LAB, 13:25-17:30 W, , In Person Term Based; Carol Flaten; 2 cr.  
56454 001 LAB, 13:25-17:30 T, , In Person Term Based; Carol Flaten; 2 cr.  
59288 007 LAB, 8:00-12:05 W, Rochester Campus Room TBA, In Person Term Based; Kris Hendrickx; 2 cr.  
58734 005 LAB, 8:00-12:05 F, , In Person Term Based; Lisa Martin; 2 cr.  
58733 004 LAB, 13:25-17:30 Th, , In Person Term Based; Lisa Martin; 2 cr.

### 3801 Patient Centered Care of Adults and Older Adults I

(A-F only; Prereq: Admitted to Nurs BSN program)  
56451 001 LEC, 13:25-16:25 M, , In Person Term Based; ; 3 cr.

### 3802 Patient Centered Care: Nursing Care of Families I

(A-F only; Prereq: Enrolled in School of Nursing)  
56452 001 LEC, 13:25-16:25 W, , In Person Term Based; Linda Kraft; 3 cr.  
56453 002 LEC, 13:25-16:25 W, Rochester Campus Room TBA, In Person Term Based; Patrick Dean; 3 cr.

### 3802H Nursing Care of Families I Honors

(A-F only; Prereq: Enrolled nursing student)  
56734 001 LEC, 13:25-16:25 W, , 12:20-13:10 W, , In Person Term Based; ; 4 cr.

### 3803 Application of Genetics in Nursing

(A-F or Audit; Prereq: Enrolled in nursing major)  
56455 001 LEC, 13:25-15:20 F, , Primarily Online; Mary Rowan; 2 cr.  
56458 002 LEC, 13:25-15:20 F, , 13:25-15:20 F, Rochester Campus Room TBA, Primarily Online; Mary Rowan; 2 cr.

### 4205V Honors: Nursing Theory and Research

(Student Option; Prereq: Nurs honorsWI)  
55356 001 LEC, 9:05-12:05 T, , In Person Term Based; Andra Fjone; 3 cr.

### 4205W Nursing Theory and Research

(A-F or Audit; Prereq: Undergrad in nursingWI)  
56584 002 LEC, 9:05-12:05 T, Rochester Campus Room TBA, In Person Term Based; Ruth Lindquist; 3 cr.  
55357 001 LEC, 9:05-12:05 T, , In Person Term Based; Ruth Lindquist; 3 cr.

### 4301 Person Centered Care of Adults and Older Adults II

(A-F only; Prereq: 3801, 3802, 3703, 3705, enrolled in School of Nursing)  
56885 001 LEC, 13:25-16:25 T, , In Person Term Based; Mary Steffes; 4 cr.

### 4303 Practicum: Person Centered Care of Adults in Acute Care

(A-F only; Prereq: 3703, 3705, 3801, [3802 or 3802H], enrolled in nursing)  
60977 008 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; 3 cr.  
56910 002 FWK, 7:00-15:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Elaine Darst; 3 cr.  
56912 004 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Mary Steffes; 3 cr.  
56913 005 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Mary Steffes; 3 cr.  
56914 006 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Mary Steffes; 3 cr.  
56887 001 FWK, 7:00-15:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Mary Steffes; 3 cr.  
59290 007 FWK, 7:00-15:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Mary Steffes; 3 cr.  
56911 003 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Penny Kessler; 3 cr.

### 4305 Practicum: Community-based Care of Families Across Life Span

(A-F only; Prereq: 3703, 3705, 3801, [3802 or 3802H], enrolled Nurs student)  
56921 007 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; ; 3 cr.  
56920 006 FWK, 7:00-15:30 F, , 8:00-16:30 F, No Room Required, In Person Term Based; Carol Flaten; 3 cr.  
59373 017 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Dorcas Kunkel; 3 cr.  
59371 015 FWK, 7:00-15:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Dorcas Kunkel; 3 cr.  
59292 012 FWK, 7:00-15:30 Th, , 7:00-15:30 F, No Room Required, In Person Term Based; Dorcas Kunkel; 3 cr.  
56924 010 FWK, 7:00-15:30 Th, , 7:00-15:30 F, No Room Required, In Person Term Based; Kris Hendrickx; 3 cr.  
59372 016 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
59293 014 FWK, 7:00-15:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
59291 011 FWK, 7:00-15:30 F, , 7:00-15:30 Th, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
56919 005 FWK, 8:00-16:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
56917 003 FWK, 8:00-16:30 Th, , 7:00-15:30 Th, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
56888 001 FWK, 8:00-16:30 Th, No Room Required, 7:00-15:30 Th, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
56923 009 FWK, 7:00-15:30 F, , 7:00-15:30 Th, No Room Required, In Person Term Based; Linda Kraft; 3 cr.  
56918 004 FWK, 7:00-15:30 Th, , 8:00-16:30 Th, No Room Required, In Person Term Based; Carol Flaten; 3 cr.  
56889 002 FWK, 7:00-15:30 Th, , 8:00-16:30 Th, No Room Required, In Person Term Based; Carol Flaten; 3 cr.  
56922 008 FWK, 7:00-15:30 F, , 7:00-15:30 F, No Room Required, In Person Term Based; Carol Flaten; 3 cr.

### 4312 Patient Centered Care: Nursing Care of Families II

(A-F only; Prereq: 3802, enrolled nursing student)  
56886 001 LEC, 9:05-12:05 W, , In Person Term Based; Andra Fjone; 4 cr.  
56890 002 LEC, 9:05-12:05 W, Rochester Campus Room TBA, In Person Term Based; Karin Larson; 4 cr.

### 4321 Public Health Nursing

(A-F or Audit; Prereq: jr nursing student)  
56884 002 LEC, 13:25-15:20 W, , Rochester Campus Room TBA, In Person Term Based; Carol Flaten; 2 cr.  
56882 001 LEC, 13:25-15:20 W, , In Person Term Based; Carol Flaten; 2 cr.

### 4324 Transcultural Nursing and Global Health

(Student Option; Prereq: Nursing student or instr consentGP)  
58743 002 LEC, 9:05-12:05 M, Rochester Campus Room TBA, In Person Term Based; Lisa Martin; 3 cr.  
58742 001 LEC, 9:05-12:05 M, , In Person Term Based; Lisa Martin; 3 cr.

### 4705 Specialty Focused Practicum II

(A-F or Audit; Prereq: 4703, sr in good standing in BSN prereq: 4703, sr in good standing in BSN)  
68332 011 LEC, 11:15-13:10 W, Rochester Campus Room TBA, In Person Term Based; 6 cr.  
58740 009 LEC, 13:25-16:25 W, , 11:15-13:10 W, Rochester Campus Room TBA, In Person Term Based; Karen Dunlap; 6 cr.  
58092 002 LEC, 11:15-13:10 W, , In Person Term Based; Karen Dunlap; 6 cr.  
58095 005 LEC, 11:15-13:10 W, , In Person Term Based; Karen Dunlap; 6 cr.  
58738 006 LEC, 11:15-13:10 W, , In Person Term Based; Karen Dunlap; 6 cr.  
58741 010 LEC, 11:15-13:10 W, Rochester Campus Room TBA, In Person Term Based; Mary Steffes; 6 cr.  
58093 003 LEC, 11:15-13:10 W, , In Person Term Based; Mary Steffes; 6 cr.  
58094 004 LEC, 11:15-13:10 W, , In Person Term Based; Mary Steffes; 6 cr.  
58739 007 LEC, 11:15-13:10 W, , In Person Term Based; Mary Steffes; 6 cr.  
57733 001 LEC, 13:25-16:25 W, , 11:15-13:10 W, , In Person Term Based; Mary Steffes; 6 cr.

### 4707 Nursing Leadership: Professional Practice in Complex Systems

(A-F only; Prereq: Sr enrolled in BSN program)  
57732 001 LEC, 9:05-11:00 W, , In Person Term Based; Daniel Pesut; 2 cr.  
57809 002 LEC, 9:05-11:00 W, Rochester Campus Room TBA, In Person Term Based; Patrick Dean; 2 cr.

### 4800 Nursing Topics

(Student Option; Prereq: instr consent)  
49053 001 IND, In Person Term Based; 0-16 cr.  
51725 002 IND, In Person Term Based; 0-16 cr.  
55946 003 IND, In Person Term Based; 0-16 cr.

### 4801 Research Topics

(Student Option; )  
55947 001 IND, In Person Term Based; 1-16 cr.

### 5011 Interprofessional Diabetes Experience

(A-F only; Prereq: 2nd or 3rd year in nursing curriculum prereq: 2nd or 3rd year in nursing curriculum)  
57736 002 LEC, 13:25-15:20 M, , In Person Term Based; 2 cr.  
57735 001 LEC, 13:25-15:20 M, , In Person Term Based; Meets With: 001 PHAR 6226; Mary Rowan; 2 cr.

### 5012 Phillips Neighborhood Clinic: Interprofessional Service

(No Grade Associated; Prereq: Sophomore in School of Nursing, [2 year commitment or MN student])  
59375 001 FWK, In Person Term Based; Mary Rowan; 0 cr.

### 5031 Human Response to Health and Illness: Adults and Elders

(A-F or Audit; )  
51550 005 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.  
52567 006 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.  
52568 007 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.  
56463 008 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.  
56723 009 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.

59376 010 FWK, 7:00-15:30 W, , In Person Term Based; Penny Kessler; 4 cr.  
 51547 002 FWK, 7:00-15:30 T, , In Person Term Based; Penny Kessler; 4 cr.  
 51548 003 FWK, 7:00-15:30 T, , In Person Term Based; Penny Kessler; 4 cr.  
 51549 004 FWK, 7:00-15:30 T, , In Person Term Based; Penny Kessler; 4 cr.  
 51056 001 LEC, 8:00-11:00 Th, , In Person Term Based; Penny Kessler; 4 cr.

### 5032 Human Response to Health and Illness: Children and Childbearing Families

(A-F or Audit; )  
 56724 009 FWK, 7:00-15:30 W, , In Person Term Based; Carolyn Veglia-Young; 5 cr.  
 51551 003 FWK, 7:00-15:30 T, , In Person Term Based; Jihad Adwan; 5 cr.  
 51553 005 FWK, 7:00-15:30 W, , In Person Term Based; Melissa Saftner; 5 cr.  
 56464 008 FWK, 7:00-15:30 W, , In Person Term Based; Melissa Saftner; 5 cr.  
 59377 010 FWK, 7:00-15:30 W, , In Person Term Based; Melissa Saftner; 5 cr.  
 51057 001 LEC, 12:20-15:20 Th, , In Person Term Based; Melissa Saftner; 5 cr.  
 52569 006 FWK, 7:00-15:30 W, , In Person Term Based; Carolyn Veglia-Young; 5 cr.  
 52570 007 FWK, 7:00-15:30 W, , In Person Term Based; Melissa Saftner; 5 cr.  
 51552 004 FWK, 7:00-15:30 T, , In Person Term Based; Melissa Saftner; 5 cr.  
 51171 002 FWK, 7:00-15:30 T, , In Person Term Based; Melissa Saftner; 5 cr.

### 5115 Interprofessional Health Care Informatics

(A-F or Audit; )  
 53798 001 LEC, Completely Online; Karen Monsen; 3 cr.

### 5225 Psychopharmacology Advanced Practice Psychiatric/Mental Health Nursing

(Student Option; Prereq: 5228 or instr consent)  
 56512 001 LEC, 16:40-19:40 W, , Primarily Online; Merrie Kaas; 3 cr.

### 5229 Clinical Pharmacotherapeutics

(A-F only; Prereq: 5222, [5228 or PHAR 5800], DNP student, instr consent)  
 57810 002 LEC, 13:25-16:25 Th, , Primarily Online; Kathryn White; 2-4 cr.  
 56627 001 LEC, 13:25-16:25 Th, , Primarily Online; Mary Benbenek; 2-4 cr.

### 5505 Assessment and Support of Women in Labor

(S-N only; Prereq: Admission to DNP Program)  
 60863 001 FWK, 13:25-14:15 W, , In Person Term Based; 2 cr.

### 5800 Nursing Topics

(Student Option; )  
 47548 003 IND, In Person Term Based; 1-4 cr.  
 55877 002 IND, In Person Term Based; 1-4 cr.  
 50568 001 IND, In Person Term Based; ; 1-4 cr.

### 5812 Global Health Through Study Abroad

(S-N only; Prereq: instr consent)  
 58202 002 FWK, Study Abroad; Martha Kubik; 2-3 cr.

### 5830 Advanced Clinical Nursing

(Student Option; )  
 53258 002 IND, In Person Term Based; 1-6 cr.  
 55748 003 IND, In Person Term Based; 1-6 cr.  
 48762 001 IND, In Person Term Based; ; 1-6 cr.

### 5925 Grant Writing and Critique

(Student Option; Prereq: Grad student or instr consent)  
 54404 001 LEC, Completely Online; Laura Duckett; 1 cr.

### 6105 Systems Analysis and Design

(A-F or Audit; Prereq: 5115 or equiv or instr consent)  
 55579 001 LEC, 15:35-18:20 ThF, , Primarily Online; Thomas Clancy; 3 cr.

### 6110 Epidemiology in Nursing

(Student Option; Prereq: DNP student or instr consent)  
 56513 001 LEC, 9:05-11:00 Sa, , Primarily Online; Renee Sieving; 2 cr.

### 6200 Science of Nursing Intervention

(A-F or Audit; Prereq: Admission to MN or DNP program)  
 54144 001 LEC, 13:25-16:25 F, , Primarily Online; Ruth Lindquist; 3 cr.

### 6308 Women's Primary Care Practicum

(S-N only; Prereq: 5200, 5222, 5228, 5229, 6501, 6305, 6306)  
 60864 001 FWK, 15:35-18:30 W, , Primarily Online; 2 cr.

### 6502 Assessment and Management of Health for Advanced Practice Nurses, II

(A-F only; Prereq: Nurs 5228, Nurs 6501 or permission of instructor)  
 56537 001 LEC, 12:20-15:20 W, , Primarily Online; Fang Yu; 2-3 cr.

### 6504 Assessing, Managing Psychiatric Disorders in Adv Practice Psychiatric-Mental Health Nursing

(Student Option; )  
 57303 001 LEC, 9:05-11:00 W, , Partially Online; Barbara Peterson; 2 cr.

### 6505 PMH/APN Prac II:Assessing, Managing Psychiatric Disorders in Adv Prac Psychiatric-Mental Health Nurs

(S-N only; Prereq: 5200, 5222, 5224, 5228, 6604, 6605, CSH 5101, concurrent registration is required (or allowed) in 6404)  
 57304 001 FWK, 11:15-15:20 W, , Partially Online; Barbara Peterson; 2 cr.

### 6703 Nursing Leadership Seminar:

Organizational Culture and Leadership  
 (Student Option; Prereq: Grad student or instr consent)  
 58204 001 LEC, 13:25-15:20 Th, , Primarily Online; Judith Pechacek; 2 cr.

### 6704 Nursing Leadership Practicum: Organizational Culture and Leadership

(S-N only; Prereq: concurrent registration is required (or allowed) in 6703)  
 58205 001 FWK, 15:35-17:30 Th, , Primarily Online; Judith Pechacek; 1 cr.

### 6900 Introduction to Principles of Anesthesia

(A-F only; Prereq: Doctorate of nursing practice program)  
 61101 001 LEC, 9:00-17:00 W, , 9:00-15:00 W, , Primarily Online; 6 cr.

### 6902 Nurse Anesthesia Care:

Cardiothoracic Disease  
 (A-F only; Prereq: 5222, 5228, 6900, 6901, concurrent registration is required (or allowed) in 6912, PHSL 5115, DNP-nurse anesthesia student)  
 56514 001 LEC, 8:00-15:00 WThF, , In Person Term Based; Kathryn White; 2 cr.

### 6910 Introduction to Nurse Anesthesia Practicum I

(S-N only; Prereq: Grad Student in Doctorate of Nursing Practice Program, concurrent registration is required (or allowed) in 6900)  
 61050 001 FWK, 9:05-13:10 W, , In Person Term Based; 1 cr.

### 6912 Nurse Anesthesia Care:

Cardiothoracic Disease Practicum  
 (S-N only; Prereq: concurrent registration is required (or allowed) in 6902, DNP-nurse anesthesia specialty student)  
 57305 001 FWK, 13:25-16:25 F, , In Person Term Based; 3 cr.

### 6920 Primary Care: Assessment of Health and Care of Well Children

(A-F only; Prereq: 5200, 5222, 5229, concurrent registration is required (or allowed) in 6921, instr consent)  
 56743 001 LEC, 9:05-12:05 W, , In Person Term Based; Cheri Friedrich; 3 cr.

### 6921 Assessment of Health and Care of Well Children: Primary Care Practicum

(A-F only; Prereq: 5200, 5222, 5229, concurrent registration is required (or allowed) in 6920, instr consent)

56744 001 FWK, 12:20-14:15 W, , In Person Term Based; Cheri Friedrich; 1-2 cr.

### 6925 Advanced Concepts in Women's Health Care I

(A-F only; Prereq: 6305, 6306, 6501)  
 57022 001 LEC, 8:00-11:00 W, , Partially Online; Diana Drake; 1-3 cr.

### 6926 Advanced Concepts in Women's Health for WHNP Practicum I

(S-N only; Prereq: WHNP DNP student, concurrent registration is required (or allowed) in 6925, 5222, 5228, 5229, 5200, 6305, 6306)  
 57026 001 FWK, 15:35-18:30 W, , Partially Online; Diana Drake; 1 cr.

### 7005 Nurse Anesthesia Practicum B

(S-N only; Prereq: 7004)  
 57327 001 FWK, 9:05-13:10 W, , 9:05-11:00 W, , In Person Term Based; Danilo Lovinaria; 5 cr.

### 7100 DNP Seminar I

(A-F only; Prereq: Admis to either post-BSN or post-MS DNP program, concurrent registration is required (or allowed) in 7110)  
 57360 001 LEC, 13:25-15:20 Th, , Partially Online; Deborah Ringdahl; 2 cr.

### 7101 DNP Seminar II

(A-F only; Prereq: 7100 or instr consent)  
 54145 001 LEC, 8:00-11:00 Th, , Primarily Online; Jeanne Pfeiffer; 3 cr.  
 59346 002 LEC, 8:00-11:00 F, , Primarily Online; Linda Lindeke; 3 cr.

### 7110 DNP Project Direction I: Planning

(S-N only; Prereq: Admis to post-BSN or post-MS DNP program, concurrent registration is required (or allowed) in 7100)  
 59352 060 FWK, Completely Online; 1 cr.  
 59353 061 FWK, Completely Online; 1 cr.  
 59351 059 FWK, Completely Online; Barbara Peterson; 1 cr.  
 59348 056 FWK, Completely Online; Catherine Juve; 1 cr.  
 59350 058 FWK, Completely Online; Judith Pechacek; 1 cr.  
 59349 057 FWK, Completely Online; Roxanne McMurray; 1 cr.  
 59347 055 FWK, Completely Online; Ulf Bronas; 1 cr.  
 58861 050 FWK, Completely Online; Bonnie Westra; 1 cr.  
 58828 017 FWK, Completely Online; Carolyn Porta; 1 cr.  
 58826 015 FWK, Completely Online; Cheri Friedrich; 1 cr.  
 58854 043 FWK, Completely Online; Cheryl Robertson; 1 cr.  
 58845 034 FWK, Completely Online; Christine Mueller; 1 cr.  
 58850 039 FWK, Completely Online; Christine Poe; 1 cr.  
 58817 006 FWK, Completely Online; Corjena Cheung; 1 cr.  
 58847 036 FWK, Completely Online; Cynthia Peden-McAlpine; 1 cr.  
 58848 037 FWK, Completely Online; Daniel Pesut; 1 cr.  
 58842 031 FWK, Completely Online; Danilo Lovinaria; 1 cr.  
 58853 042 FWK, Completely Online; Deborah Ringdahl; 1 cr.  
 58822 011 FWK, Completely Online; Diana Drake; 1 cr.  
 58856 045 FWK, Completely Online; Diane Schadewald; 1 cr.  
 58860 049 FWK, Completely Online; Diane Treat-Jacobson; 1 cr.  
 58815 004 FWK, Completely Online; Donna Bliss; 1 cr.  
 58864 053 FWK, Completely Online; Fang Yu; 1 cr.  
 58837 026 FWK, Completely Online; Gisli Kristofersson; 1 cr.  
 58827 016 FWK, Completely Online; Jayne Fulkerson; 1 cr.  
 58863 052 FWK, Completely Online; Jean Wyman; 1 cr.  
 58849 038 FWK, Completely Online; Jeanne Pfeiffer; 1 cr.  
 58865 054 FWK, Completely Online; Jihad Adwan; 1 cr.  
 58821 010 FWK, Completely Online; Joanne Disch; 1 cr.  
 58829 018 FWK, Completely Online; Joseph Gaugler; 1 cr.  
 58844 033 FWK, Completely Online; Karen Monsen; 1 cr.  
 58824 013 FWK, Completely Online; Kathleen Fagerlund; 1 cr.  
 58836 025 FWK, Completely Online; Kathleen Krichbaum; 1 cr.  
 58862 051 FWK, Completely Online; Kathryn White; 1 cr.  
 58859 048 FWK, Completely Online; Kristine Talley; 1 cr.  
 58823 012 FWK, Completely Online; Laura Duckett; 1 cr.  
 58813 002 FWK, Completely Online; Linda Bearinger; 1 cr.  
 58831 020 FWK, Completely Online; Linda Halcon; 1 cr.  
 58839 028 FWK, Completely Online; Linda Lindeke; 1 cr.  
 58852 041 FWK, Completely Online; Lori Rhudy; 1 cr.  
 58834 023 FWK, Completely Online; Madeleine Kerr; 1 cr.  
 58838 027 FWK, Completely Online; Martha Kubik; 1 cr.  
 58814 003 FWK, Completely Online; Mary Benbenek; 1 cr.  
 58816 005 FWK, Completely Online; Mary Chesney; 1 cr.  
 58820 009 FWK, Completely Online; Mary Dierich; 1 cr.  
 58825 014 FWK, Completely Online; Mary Findorff; 1 cr.  
 58832 021 FWK, Completely Online; Mary Hooke; 1 cr.  
 58858 047 FWK, Completely Online; Mary Steffes; 1 cr.  
 58835 024 FWK, Completely Online; MaryJo Kreitzer; 1 cr.

57361 001 FWK, Completely Online; Melissa Avery; 1 cr.  
 58855 044 FWK, Completely Online; Melissa Saftner; 1 cr.  
 58833 022 FWK, Completely Online; Merrie Kaas; 1 cr.  
 58830 019 FWK, Completely Online; Niloufar Hadidi; 1 cr.  
 58819 008 FWK, Completely Online; Patrick Dean; 1 cr.  
 58857 046 FWK, Completely Online; Renee Sieving; 1 cr.  
 58840 029 FWK, Completely Online; Ruth Lindquist; 1 cr.  
 58843 032 FWK, Completely Online; Siobhan McMahon; 1 cr.  
 58846 035 FWK, Completely Online; Susan O'Conner-Von; 1 cr.  
 58851 040 FWK, Completely Online; Teddie Potter; 1 cr.  
 58818 007 FWK, Completely Online; Thomas Clancy; 1 cr.  
 58841 030 FWK, Completely Online; Wendy Looman; 1 cr.

**7111 DNP Project Direction II:****Implementation**

(S-N only; Prereq: 7110, [7101 or concurrent registration is required (or allowed) in 7101] or instr consent)

59359 060 FWK, Completely Online; 1 cr.  
 59360 061 FWK, Completely Online; 1 cr.  
 59358 059 FWK, Completely Online; Barbara Peterson; 1 cr.  
 59355 056 FWK, Completely Online; Catherine Juve; 1 cr.  
 59356 057 FWK, Completely Online; Judith Pechacek; 1 cr.  
 59357 058 FWK, Completely Online; Roxanne McMurray; 1 cr.  
 59354 055 FWK, Completely Online; Ulf Bronas; 1 cr.  
 58917 050 FWK, Completely Online; Bonnie Westra; 1 cr.  
 58884 017 FWK, Completely Online; Carolyn Porta; 1 cr.  
 58882 015 FWK, Completely Online; Cheri Friedrich; 1 cr.  
 58910 043 FWK, Completely Online; Cheryl Robertson; 1 cr.  
 58901 034 FWK, Completely Online; Christine Mueller; 1 cr.  
 58906 039 FWK, Completely Online; Christine Poe; 1 cr.  
 58873 006 FWK, Completely Online; Corjena Cheung; 1 cr.  
 58903 036 FWK, Completely Online; Cynthia Peden-McAlpine; 1 cr.  
 58904 037 FWK, Completely Online; Daniel Pesut; 1 cr.  
 58898 031 FWK, Completely Online; Danilo Lovinaria; 1 cr.  
 58909 042 FWK, Completely Online; Deborah Ringdahl; 1 cr.  
 58878 011 FWK, Completely Online; Diana Drake; 1 cr.  
 58912 045 FWK, Completely Online; Diane Schadewald; 1 cr.  
 58916 049 FWK, Completely Online; Diane Treat-Jacobson; 1 cr.  
 58871 004 FWK, Completely Online; Donna Bliss; 1 cr.  
 58920 053 FWK, Completely Online; Fang Yu; 1 cr.  
 58893 026 FWK, Completely Online; Gisi Kristofersson; 1 cr.  
 58883 016 FWK, Completely Online; Jayne Fulkerson; 1 cr.  
 58919 052 FWK, Completely Online; Jean Wyman; 1 cr.  
 58905 038 FWK, Completely Online; Jeanne Pfeiffer; 1 cr.  
 58921 054 FWK, Completely Online; Jehad Adwan; 1 cr.  
 58877 010 FWK, Completely Online; Joanne Disch; 1 cr.  
 58885 018 FWK, Completely Online; Joseph Gaugler; 1 cr.  
 58900 033 FWK, Completely Online; Karen Monsen; 1 cr.  
 58880 013 FWK, Completely Online; Kathleen Fagerlund; 1 cr.  
 58892 025 FWK, Completely Online; Kathleen Krichbaum; 1 cr.  
 58918 051 FWK, Completely Online; Kathryn White; 1 cr.  
 58915 048 FWK, Completely Online; Kristine Talley; 1 cr.  
 58879 012 FWK, Completely Online; Laura Duckett; 1 cr.  
 58869 002 FWK, Completely Online; Linda Bearinger; 1 cr.  
 58887 020 FWK, Completely Online; Linda Halcon; 1 cr.  
 58895 028 FWK, Completely Online; Linda Lindeke; 1 cr.  
 58908 041 FWK, Completely Online; Lori Rhudy; 1 cr.  
 58890 023 FWK, Completely Online; Madeleine Kerr; 1 cr.  
 58894 027 FWK, Completely Online; Martha Kubik; 1 cr.  
 58870 003 FWK, Completely Online; Mary Benbenek; 1 cr.  
 58872 005 FWK, Completely Online; Mary Chesney; 1 cr.  
 58876 009 FWK, Completely Online; Mary Dierich; 1 cr.  
 58881 014 FWK, Completely Online; Mary Findorff; 1 cr.  
 58888 021 FWK, Completely Online; Mary Hooke; 1 cr.  
 57396 001 FWK, Completely Online; Melissa Avery; 1 cr.  
 58911 044 FWK, Completely Online; Melissa Saftner; 1 cr.  
 58889 022 FWK, Completely Online; Merrie Kaas; 1 cr.  
 58886 019 FWK, Completely Online; Niloufar Hadidi; 1 cr.  
 58875 008 FWK, Completely Online; Patrick Dean; 1 cr.  
 58913 046 FWK, Completely Online; Renee Sieving; 1 cr.  
 58896 029 FWK, Completely Online; Ruth Lindquist; 1 cr.  
 58899 032 FWK, Completely Online; Siobhan McMahon; 1 cr.  
 58902 035 FWK, Completely Online; Susan O'Conner-Von; 1 cr.  
 58907 040 FWK, Completely Online; Teddie Potter; 1 cr.  
 58874 007 FWK, Completely Online; Thomas Clancy; 1 cr.  
 58897 030 FWK, Completely Online; Wendy Looman; 1 cr.  
 58914 047 FWK, Completely Online; Mary Steffes; 1 cr.  
 58891 024 FWK, Completely Online; MaryJo Kreitzer; 1 cr.

**7112 DNP Project Direction III: Evaluation**  
(S-N only; Prereq: 7111, [7102 or concurrent registration is required (or allowed) in 7102] or instr consent)

58949 019 FWK, Completely Online; Niloufar Hadidi; 1 cr.  
 58938 008 FWK, Completely Online; Patrick Dean; 1 cr.  
 58976 046 FWK, Completely Online; Renee Sieving; 1 cr.  
 58959 029 FWK, Completely Online; Ruth Lindquist; 1 cr.  
 58962 032 FWK, Completely Online; Siobhan McMahon; 1 cr.

58965 035 FWK, Completely Online; Susan O'Conner-Von; 1 cr.  
 58970 040 FWK, Completely Online; Teddie Potter; 1 cr.  
 58937 007 FWK, Completely Online; Thomas Clancy; 1 cr.  
 58985 055 FWK, Completely Online; Ulf Bronas; 1 cr.  
 58960 030 FWK, Completely Online; Wendy Looman; 1 cr.  
 58974 044 FWK, Completely Online; Melissa Saftner; 1 cr.  
 58952 022 FWK, Completely Online; Merrie Kaas; 1 cr.  
 59367 060 FWK, Completely Online; 1 cr.  
 59368 061 FWK, Completely Online; 1 cr.  
 59366 059 FWK, Completely Online; Barbara Peterson; 1 cr.  
 59363 056 FWK, Completely Online; Catherine Juve; 1 cr.  
 59365 058 FWK, Completely Online; Judith Pechacek; 1 cr.  
 59364 057 FWK, Completely Online; Roxanne McMurray; 1 cr.  
 58980 050 FWK, Completely Online; Bonnie Westra; 1 cr.  
 58947 017 FWK, Completely Online; Carolyn Porta; 1 cr.  
 58945 015 FWK, Completely Online; Cheri Friedrich; 1 cr.  
 58973 043 FWK, Completely Online; Cheryl Robertson; 1 cr.  
 58964 034 FWK, Completely Online; Christine Mueller; 1 cr.  
 58969 039 FWK, Completely Online; Christine Poe; 1 cr.  
 58936 006 FWK, Completely Online; Corjena Cheung; 1 cr.  
 58966 036 FWK, Completely Online; Cynthia Peden-McAlpine; 1 cr.  
 58967 037 FWK, Completely Online; Daniel Pesut; 1 cr.  
 58961 031 FWK, Completely Online; Danilo Lovinaria; 1 cr.  
 58972 042 FWK, Completely Online; Deborah Ringdahl; 1 cr.  
 58941 011 FWK, Completely Online; Diana Drake; 1 cr.  
 58975 045 FWK, Completely Online; Diane Schadewald; 1 cr.  
 58979 049 FWK, Completely Online; Diane Treat-Jacobson; 1 cr.  
 58934 004 FWK, Completely Online; Donna Bliss; 1 cr.  
 58983 053 FWK, Completely Online; Fang Yu; 1 cr.  
 58956 026 FWK, Completely Online; Gisi Kristofersson; 1 cr.  
 58946 016 FWK, Completely Online; Jayne Fulkerson; 1 cr.  
 58982 052 FWK, Completely Online; Jean Wyman; 1 cr.  
 58968 038 FWK, Completely Online; Jeanne Pfeiffer; 1 cr.  
 58984 054 FWK, Completely Online; Jehad Adwan; 1 cr.  
 58940 010 FWK, Completely Online; Joanne Disch; 1 cr.  
 58948 018 FWK, Completely Online; Joseph Gaugler; 1 cr.  
 58963 033 FWK, Completely Online; Karen Monsen; 1 cr.  
 58943 013 FWK, Completely Online; Kathleen Fagerlund; 1 cr.  
 58955 025 FWK, Completely Online; Kathleen Krichbaum; 1 cr.  
 58981 051 FWK, Completely Online; Kathryn White; 1 cr.  
 58978 048 FWK, Completely Online; Kristine Talley; 1 cr.  
 58942 012 FWK, Completely Online; Laura Duckett; 1 cr.  
 58932 002 FWK, Completely Online; Linda Bearinger; 1 cr.  
 58950 020 FWK, Completely Online; Linda Halcon; 1 cr.  
 58958 028 FWK, Completely Online; Linda Lindeke; 1 cr.  
 58971 041 FWK, Completely Online; Lori Rhudy; 1 cr.  
 58953 023 FWK, Completely Online; Madeleine Kerr; 1 cr.  
 58957 027 FWK, Completely Online; Martha Kubik; 1 cr.  
 58933 003 FWK, Completely Online; Mary Benbenek; 1 cr.  
 58935 005 FWK, Completely Online; Mary Chesney; 1 cr.  
 58939 009 FWK, Completely Online; Mary Dierich; 1 cr.  
 58944 014 FWK, Completely Online; Mary Findorff; 1 cr.  
 58951 021 FWK, Completely Online; Mary Hooke; 1 cr.  
 58977 047 FWK, Completely Online; Mary Steffes; 1 cr.  
 58954 024 FWK, Completely Online; MaryJo Kreitzer; 1 cr.  
 58736 001 FWK, Completely Online; Melissa Avery; 1 cr.

**7113 Clinical Decision Support: Theory**

(A-F only; Prereq: 5115 or HINF 5430/5431 or instr consent)

56539 001 LEC, 11:15-12:05 F, , Primarily Online; ; 2 cr.

**7114 Clinical Decision Support Practicum**

(S-N only; Prereq: [5115, [7113 or concurrent registration is required (or allowed) in 7113] or [HINF 5430, HINF 5431]] or instr consent)

61055 001 FWK, 11:15-12:05 F, , Primarily Online; 2 cr.

**7200 Economics of Health Care**

(A-F or Audit; Prereq: Admission to DNP program)

60868 001 LEC, 12:20-16:25 Sa, , 13:25-16:25 Sa, , Primarily Online; 3 cr.

**7202 Moral and Ethical Positions and****Actions in Nursing**

(A-F or Audit; Prereq: Grad student in nursing or instr consent)

56515 001 LEC, 13:25-16:25 F, , Primarily Online; Laura Duckett; 2 cr.

**7213 Midwifery Clinical and Professional****Integration**

(S-N only; Prereq: Nurse midwifery DNP student in final semester, no incomplete cr, instr consent)

57029 001 FWK, 13:25-16:25 W, , 8:00-12:00 W, , 12:00-17:00 T, , Primarily Online; Deborah Ringdahl; 3 cr.

**7214 Integrative Health and Healing III**

(A-F only; Prereq: 7211 or instr consent)

57462 001 LEC, 9:05-11:00 Th, , Primarily Online; MaryJo Kreitzer; 1 cr.

**7215 Integrative Health and Healing Practicum III**

(S-N only; Prereq: 7212 or instr consent)

57463 001 FWK, 13:25-14:15 Th, , Partially Online; MaryJo Kreitzer; 2 cr.

**7300 Program Evaluation**

(A-F or Audit; Prereq: Admission to DNP program or instr consent)

57362 001 LEC, 9:05-12:05 F, , Primarily Online; 3 cr.

**7310 WHNP Clinical and Professional****Integration**

(Student Option; Prereq: WHNP DNP student in final semester, passed all courses, no incomplete credits)

57028 001 FWK, 9:05-12:05 F, , Primarily Online; Diana Drake; 2 cr.

**7400 Health Policy Leadership**

(A-F or Audit; Prereq: Admission to DNP program)

56727 001 LEC, 9:05-12:05 F, , Primarily Online; Mary Chesney; 3 cr.

**7406 Advanced Nursing Practicum in Adult-Gerontology Health**

(S-N only; Prereq: [5222, 5228, 5224, 5200, 6407, 6501, 7505, not [ANP or GNP]] or [5222, 5228, 5224, 5200, 6407, 6500, 6501, 7504, 7505, [ANP or GNP]] or instr consent)

59402 002 FWK, 9:05-12:05 W, , In Person Term Based; Cynthia Peden-McAlpine; 3 cr.

57030 001 FWK, 13:25-15:20 W, , 9:05-12:05 WTh, , Partially Online; Mary Dierich; 3 cr.

**7503 Reproductive Health Care of Women Practicum for Family Nurse Practitioners**

(S-N only; Prereq: 5200)

57024 001 FWK, 9:05-11:00 W, , In Person Term Based; Melissa Saftner; 1 cr.

**7505 Assessment and Management of Health for Advanced Practice Nurses Practicum II**

(S-N only; Prereq: 5200, 5222, 5224, 5229, (6501 or concurrent registration is required (or allowed) in 6501), (6502 or concurrent registration is required (or allowed) in 6502)

57027 001 FWK, 13:25-16:25 F, , 15:35-17:30 W, , In Person Term Based; 1-2 cr.

57032 003 FWK, 15:35-17:30 W, , Primarily Online; Cynthia Peden-McAlpine; 1-2 cr.

57031 002 FWK, 13:25-16:25 F, , 15:35-17:30 W, , Primarily Online; Mary Dierich; 1-2 cr.

**7507 Assessment Management of Health Practicum IV:Community Health Leadership for Family Nurse Prac**

(S-N only; Prereq: 7400 or concurrent registration is required (or allowed) in 7400, 7506)

57397 001 FWK, 8:00-9:55 W, , 12:20-17:30 T, , In Person Term Based; Mary Benbenek; 1 cr.

**7509 Assessment and Management of Health Practicum VI: Primary Care for the Family Nurse Practitioner**

(S-N only; Prereq: 5200, 5222, 5228, 5229, 6501, 7504, 7505, concurrent registration is required (or allowed) in 7507, concurrent registration is required (or allowed) in 7508)

57306 001 FWK, 10:10-12:05 W, , 12:20-17:30 T, , 9:05-12:05 Th, , 13:25-15:20 W, , 7:30-12:30 W, , In Person Term Based; Mary Benbenek; 1 cr.

**7600 Nursing Research and Evidence Based Practice**

(A-F only; Prereq: Completion of or concurrent enrollment in a 3 credit inferential statistics course)

61047 003 LEC, 9:05-12:05 F, , In Person Term Based; 2-4 cr.

60867 002 LEC, 9:05-12:05 Th, , In Person Term Based; 2-4 cr.

60836 001 LEC, 9:05-12:05 F, , In Person Term Based; 2-4 cr.

**7604 Executive Leadership Seminar: Boundary Spanning Leadership**

(A-F only; Prereq: [6705, 6706] or instr consent)

57811 001 LEC, 9:05-11:00 Th, , Primarily Online; Teddie Potter; 2 cr.

**7605 Executive Leadership Practicum III: Boundary Spanning Leadership**

(S-N only; Prereq: [6704, 6706] or instr consent)  
57812 001 FWK, 12:20-16:25 Th, , Primarily Online; Kathleen Krichbaum; 2 cr.

**7606 Relationship-Based Leadership and Management**

(A-F only; Prereq: Grad student or instr consent)  
57464 001 LEC, 12:20-16:25 Th, , Primarily Online; Teddie Potter; 3 cr.

**7608 Health Care Finance and Resource Management**

(A-F or Audit; Prereq: Grad student or instr consent)  
59370 001 LEC, 9:05-12:05 F, , Partially Online; Judith Pechacek; 3 cr.

**7610 System Leadership and Innovation**

(A-F only; Prereq: Grad student or instr consent)  
56538 001 LEC, 13:25-16:25 Th, , Primarily Online; Jeanne Pfeiffer; 3 cr.

**7612 Psychiatric/Mental Health Advanced Practice Nursing: Professional Seminar**

(Student Option; Prereq: 6802, 6803)  
57813 001 LEC, 9:05-11:00 Th, , Partially Online; Merrie Kaas; 1 cr.

**7613 Psychiatric/Mental Health Advanced Practice Nursing: Practicum V**

(S-N only; Prereq: [6802, 6803] or instr consent)  
57814 001 FWK, 11:15-12:05 Th, , Partially Online; Merrie Kaas; 2 cr.

**7900 Scholarly Teaching and Learning in Nursing**

(Student Option; Prereq: DNP or PhD student or instr consent)  
57363 001 LEC, 9:05-12:05 Sa, Weaver-Densford Hall 4-130, 9:05-12:05 Sa, , Primarily Online; Kathleen Krichbaum; 3 cr.

**7925 Systems of Care for Children and Youth With Special Health Care Needs Practicum**

(A-F only; Prereq: 6924 or instr consent)  
57307 001 FWK, 15:35-16:25 W, , In Person Term Based; Cheri Friedrich; 2 cr.

**7926 Advanced Assessment, Intervention in Families of Children and Youth With Special Health Care Needs**

(A-F only; Prereq: [6102 or equiv family theory course, 6200, concurrent registration is required (or allowed) in 7925] or instr consent)  
57465 001 LEC, 13:25-15:20 W, , In Person Term Based; Wendy Looman; 2 cr.

**7927 Adv Assessment, Intervention in Families of Children and Youth With Special Health Care Needs Prac**

(A-F only; Prereq: [6102 or equiv family theory course, 6200, concurrent registration is required (or allowed) in 7925, concurrent registration is required (or allowed) in 7926] or instr consent)  
57466 001 FWK, 12:20-13:10 W, , In Person Term Based; Wendy Looman; 1 cr.

**7930 Public Health Nursing Leadership Practicum**

(S-N only; Prereq: 6930)  
57308 001 FWK, 9:05-11:00 Sa, , Primarily Online; 2 cr.

**7939 Public Health Nurse Leadership Role**

(A-F only; Prereq: [6930, DNP student] or instr consent)  
61049 001 LEC, 11:15-12:05 Sa, , Primarily Online; 1 cr.

**7940 Application of Behavior Change Theory to Population Health**

(A-F only; Prereq: 6930, [PubH 6020 or instr consent])  
56745 001 LEC, 9:05-12:05 Th, , Primarily Online; Renee Kumpula; 1 cr.

**8134 Interventions and Outcomes Research**

(A-F or Audit; Prereq: 8121, PhD student, instr consent)  
52809 001 LEC, 12:20-15:20 Th, , In Person Term Based; Susan Henly; 3 cr.

**8152 Scholarship in Health Care Ethics**

(A-F only; Prereq: Doctoral student or instr consent)  
58737 001 LEC, 9:05-12:05 W, , In Person Term Based; Joan Liaschenko; 3 cr.

**8171 Qualitative Research Design and Methods**

(Student Option; Prereq: 8170 or equiv)  
46665 001 LEC, 15:35-19:15 Th, , In Person Term Based; Cynthia Peden-McAlpine; 3-4 cr.

**8177 Advanced Nursing Research Practicum**

(S-N or Audit; Prereq: PhD nursing student, instr consent, adviser consent)  
48586 002 FWK, In Person Term Based; 2 cr.  
48588 004 FWK, In Person Term Based; 2 cr.  
48589 005 FWK, In Person Term Based; 2 cr.  
47934 001 FWK, In Person Term Based; ; 2 cr.  
48587 003 FWK, In Person Term Based; ; 2 cr.

**8179 Biophysiological Measurement and Instrumentation in Clinical Research**

(Student Option; Prereq: [8173, 8175 or equiv, advanced level stat or concurrent registration is required (or allowed) in advanced level stat] or instr consent)  
59415 001 LEC, 13:25-16:25 T, , In Person Term Based; 3 cr.

**8190 Critical Review in Health Research**

(A-F or Audit; Prereq: Advanced statistics course, instr consent)  
52739 001 LEC, 9:05-12:05 Th, , In Person Term Based; Niloufar Hadidi; 2 cr.

**8193 Special Topics in Nursing Research**

(Student Option; Prereq: instr consent)  
55363 005 IND, In Person Term Based; 1-6 cr.  
47549 001 IND, In Person Term Based; 1-6 cr.  
55360 002 IND, In Person Term Based; 1-6 cr.  
55361 003 IND, In Person Term Based; 1-6 cr.  
55362 004 IND, In Person Term Based; 1-6 cr.

**8195 Mixed Methods in the Social, Behavioral, and Applied Health Sciences**

(A-F only; Prereq: instr consent)  
57559 001 LEC, 9:05-12:05 T, , In Person Term Based; Joseph Gaugler; 3 cr.

**8360 Advanced Clinical Nursing**

(Student Option; Prereq: Grad nurs major, instr consent)  
55365 005 IND, In Person Term Based; 1-6 cr.  
47743 001 IND, In Person Term Based; 1-6 cr.  
48923 001 IND, In Person Term Based; 1-6 cr.  
48924 003 IND, In Person Term Based; 1-6 cr.  
48925 004 IND, In Person Term Based; 1-6 cr.

**8361 Special Topics in Nursing**

(Student Option; )  
55366 005 IND, In Person Term Based; 1-4 cr.  
47550 001 IND, In Person Term Based; 1-4 cr.  
48590 002 IND, In Person Term Based; 1-4 cr.  
48591 003 IND, In Person Term Based; 1-4 cr.  
48592 004 IND, In Person Term Based; 1-4 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49238 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49342 001 IND, In Person Term Based; 1-6 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49549 001 IND, In Person Term Based; 1-24 cr.

**Nutrition (NUTR)**

**5622 Vitamin and Mineral Biochemistry**  
(Student Option; Prereq: BioC 3021, Phsl 3051, FSCN 4612)

53011 001 LEC, 9:35-10:25 MWF, Ruttan Hall B25, In Person Term Based; Daniel Gallaher; 3 cr.

**5626 Nutritional Physiology**

(A-F or Audit; Prereq: NUTR 5625)  
56361 001 LEC, 8:45-10:00 TTh, Ruttan Hall 143, In Person Term Based; Douglas Mashek; 3 cr.

**5627 Nutritional and Food Toxicology**

(A-F only; Prereq: BIOC 3021; designed for students majoring in [nutrition or food science or toxicology])  
59588 001 LEC, 15:00-16:15 MW, Ruttan Hall B25, In Person Term Based; Meets With: 001 FSCN 4622; Chi Chen; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49145 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49176 001 IND, In Person Term Based; 1 cr.

**8620 Advances in Nutrition**

(Student Option; Prereq: M.S. or Ph.D. student, two semesters in the nutrition program)  
53275 001 DIS, 10:40-12:35 W, Ruttan Hall B26, In Person Term Based; A Csallany; 2 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49178 001 IND, In Person Term Based; 1-6 cr.

**8695 Independent Study: Nutrition**

(Student Option; Prereq: instr consent)  
54977 001 IND, In Person Term Based; 1-10 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49177 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49179 001 IND, In Person Term Based; 1-24 cr.

**Obstetrics and Gynecology (OBST)**

**7211 Advanced Obstetrics and Gynecology III**

(No Grade Associated; Prereq: 7210)  
48182 001 LEC, In Person Term Based; Linda Carson; 1-15 cr.

**7500 Externship in Obstetrics, Gynecology and Women's Health: The Primary Health Care of Women**

(H-N or Audit; Prereq: regis med)  
48007 006 FWK, 7:30-11:00 F, , In Person Term Based; Yasuko Yamamura; 6 cr.  
53449 008 FWK, 7:30-11:00 F, , In Person Term Based; Yasuko Yamamura; 6 cr.  
53448 007 FWK, 7:30-11:00 Th, , In Person Term Based; Yasuko Yamamura; 6 cr.

**7520 Advanced Externship in Ob/Gyn**

(H-N or Audit; Prereq: 7500)  
48008 010 FWK, In Person Term Based; Deborah Egger-Smith; 3 cr.

**7530 Advanced Externship in Ob/Gyn**

(H-N or Audit; Prereq: 7500, instr consent)  
48855 010 ROT, In Person Term Based; Deborah Egger-Smith; 3-4 cr.

**7540 Advanced Externship in Ob/Gyn**

**(H-N or Audit; Prereq: 7500)**

48009 006 FWK, In Person Term Based; Deborah Egger-Smith; 6 cr.

**7541 Advanced Externship in Ob/Gyn**

**(H-N or Audit; Prereq: 7500, instr consent)**

49992 001 ROT, In Person Term Based; Deborah Egger-Smith; 2-6 cr.

**7550 Reproductive Health**

**(P-N only; Prereq: 7500, dept consent)**

52780 001 FWK, In Person Term Based; Jane van Dis; 2-6 cr.

**7560 Research in Reproduction**

**(H-N or Audit; Prereq: 7500)**

50301 001 IND, In Person Term Based; Deborah Egger-Smith; 3-6 cr.

**7575 Gynecological Pathology and Diagnostic Cytology**

**(H-N or Audit; Prereq: 7500)**

48010 010 FWK, In Person Term Based; Doris Brooker; 3-6 cr.

48011 016 FWK, In Person Term Based; Doris Brooker; 3-6 cr.

**7591 Women's Health Rotation**

**(H-N or Audit; Prereq: 7500, Med 5500)**

49993 001 ROT, In Person Term Based; Deborah Egger-Smith; 2-6 cr.

**7910 Obstetrics and Gynecology Medical Residency**

**(No Grade Associated; )**

56685 001 FWK, In Person Term Based; 6 cr.

**7930 Obstetrics and Gynecology Medical Fellowship**

**(No Grade Associated; )**

56684 001 FWK, In Person Term Based; 6 cr.

**8224 Gynecological Endocrinology I**

**(Student Option; Prereq: prereq 8223)**

48189 001 LEC, In Person Term Based; Linda Carson; 1-15 cr.

**8225 Gynecological Endocrinology II**

**(Student Option; Prereq: prereq 8224)**

48190 001 LEC, In Person Term Based; Linda Carson; 1-15 cr.

**8226 Obstetrical Physiology and Anesthesiology**

**(Student Option; Prereq: prereq 8225)**

48191 001 LEC, In Person Term Based; Linda Carson; 1-15 cr.

**8227 Preceptorship in Clinical Practice**

**(Student Option; Prereq: prereq 8226)**

48192 001 LEC, In Person Term Based; Linda Carson; 1-15 cr.

**8240 Human Gametes and Fertilization**

**(Student Option; )**

48202 001 LEC, In Person Term Based; Linda Carson; 3 cr.

**8241 Human Gametes and Fertilization Laboratory**

**(Student Option; )**

48203 001 LEC, In Person Term Based; Linda Carson; 2 cr.

**8243 Topics in Family Planning**

**(Student Option; )**

48204 001 LEC, In Person Term Based; Linda Carson; 2-8 cr.

**5395 Independent Study in Occupational Therapy**

**(Student Option; Prereq: Enrolled OT student or instr consent)**

46681 001 IND, In Person Term Based; Peggy Martin; 1-4 cr.

**6200 Public and Professional Engagement II**

**(S-N only; Prereq: 6100 or instr consent)**

54989 002 IND, 9:00-10:30 T, Children's Rehab Ctr R262, Primarily Online; Leann Shore; 0.5 cr.

54988 001 IND, Primarily Online; Meenakshi Iyer; 0.5 cr.

**6201 Functional Anatomy and Kinesiology**

**(A-F only; Prereq: OT student or instr consent)**

54310 001 LEC, Primarily Online; Virgil Mathiowetz; 3 cr.

54311 002 LEC, Primarily Online; Virgil Mathiowetz; 3 cr.

**6202 Occupational Therapy Process for Individuals: Occupation Through Compensation**

**(A-F only; Prereq: Registered OT student or instr consent)**

54312 001 LEC, Primarily Online; Claire Bjorklund; 5 cr.

54313 002 LEC, Primarily Online; Claire Bjorklund; 5 cr.

**6203 Occupational Therapy Process for Family**

**(A-F only; Prereq: OT student or instr consent)**

54330 001 IND, Completely Online; Patricia Schaber; 2 cr.

54331 002 IND, 9:00-11:30 W, ONLINE, Completely Online; Patricia Schaber; 2 cr.

**6213 Occupational Therapy Process for Individuals: Medical Contexts**

**(A-F only; Prereq: OT student or instr consent)**

54332 001 LEC, Primarily Online; Claire Bjorklund; 2 cr.

54333 002 LEC, Primarily Online; Claire Bjorklund; 2 cr.

**7201 Scholarly Inquiry in Health Sciences**

**(A-F only; Prereq: OT student or instr consent)**

54334 001 LEC, Primarily Online; Erica Stern; 4 cr.

54335 002 LEC, Primarily Online; Erica Stern; 4 cr.

**7596 Occupational Therapy Level II Fieldwork I**

**(S-N only; Prereq: Registered OT student or instr consent)**

55041 001 FWK, In Person Term Based; Claire Bjorklund; 6 cr.

55042 002 FWK, In Person Term Based; Claire Bjorklund; 6 cr.

**7696 Occupational Therapy Level II Fieldwork II**

**(S-N only; Prereq: Registered OT student or instr consent)**

55059 002 FWK, In Person Term Based; Claire Bjorklund; 6 cr.

55058 001 FWK, In Person Term Based; Claire Bjorklund; 6 cr.

**7796 Occupational Therapy Level II Fieldwork III: Optional**

**(S-N only; Prereq: Registered OT student or instr consent)**

55061 002 FWK, In Person Term Based; Claire Bjorklund; 1-6 cr.

55060 001 FWK, In Person Term Based; Claire Bjorklund; 1-6 cr.

**Off-Campus Study (OCS)**

**(S-N only; Prereq: Registered OT student or instr consent)**

55061 002 FWK, In Person Term Based; Claire Bjorklund; 1-6 cr.

55060 001 FWK, In Person Term Based; Claire Bjorklund; 1-6 cr.

**520 Off-Campus Study**

**(S-N only; Prereq: dept consent)**

47285 001 LEC, In Person Term Based; 0 cr.

**550 National Student Exchange: Off-Campus Study**

**(S-N only; Prereq: dept consent)**

49943 002 LEC, In Person Term Based; 0 cr.

47286 001 LEC, In Person Term Based; 0 cr.

**1550 National Student Exchange: Off-Campus Study**

**(S-N only; Prereq: dept consent)**

47287 001 LEC, In Person Term Based; 1-15 cr.

**3000 Off-Campus Study**

**(Student Option; Prereq: instr consent)**

51121 001 FWK, In Person Term Based; 0-30 cr.

**3500 Domestic Off-Campus**

**(S-N only; Prereq: dept consent)**

47562 001 LEC, In Person Term Based; 1-15 cr.

**3550 National Student Exchange: Off-Campus Study**

**(S-N only; Prereq: dept consent)**

56018 002 FWK, In Person Term Based; 0-20 cr.

47288 001 FWK, In Person Term Based; 0-20 cr.

**Office of Undergrad Education (OUE)****2100 Academic Planning and Exploration**

**(Student Option; Prereq: Ctr for Academic Planning and Exploration (CAPE) consent)**

57557 002 IND, Primarily Online; Les Opatz; 1 cr.

56828 001 IND, Primarily Online; LeeAnn Melin; 1 cr.

**Ojibwe (OJIB)****1102 Beginning Ojibwe II**

**(Student Option; Prereq: 1101)**

54378 001 LEC, 11:15-12:05 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 OJIB 4102; Michelle Goose; 5 cr.

**3104 Intermediate Ojibwe II**

**(Student Option; Prereq: 1102, 1102,3103)**

54379 001 LEC, 13:25-14:15 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 OJIB 4104; Michelle Goose; 5 cr.

**4102 Beginning Ojibwe II**

**(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)**

55121 001 LEC, 11:15-12:05 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 OJIB 1102; Michelle Goose; 3 cr.

**4104 Intermediate Ojibwe II**

**(Student Option; Prereq: 1102, 3102)**

55938 001 LEC, 13:25-14:15 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 001 OJIB 3104; Michelle Goose; 3 cr.

**4109 Advanced Ojibwe Language II**

**(A-F or Audit; )**

55939 001 LEC, 14:30-15:20 MWF, Folwell Hall 6, In Person Term Based; Meets With: 001 OJIB 5109; Brendan Fairbanks; 3 cr.

**5109 Advanced Ojibwe Language II**

**(A-F or Audit; )**

54301 001 LEC, 14:30-15:20 MWF, Folwell Hall 6, In Person Term Based; Meets With: 001 OJIB 4109; Brendan Fairbanks; 3 cr.

**5202 Ojibwe Mastery I**

**(A-F or Audit; )**

69067 001 LEC, In Person Term Based; 3 cr.

**5204 Ojibwe Mastery II**

**(A-F or Audit; )**

69068 001 LEC, 15:35-16:25 MWF, Folwell Hall 31, In Person Term Based; Brendan Fairbanks; 3 cr.

**Ophthalmology (OPH)****1701 Oph Technician Externship**

**(S-N or Audit; Prereq: instr consent)**

52529 670 LEC, In Person Term Based; Kristine Fey; 15 cr.

**5701 Orthoptics III**

**(S-N only; )**

61116 001 FWK, In Person Term Based; 5 cr.

**7180 Externship in Ophthalmology**

**(H-N or Audit; )**

48012 010 FWK, In Person Term Based; Valerie Andersen; 3 cr.

**Occupational Therapy (OT)****1003 Introduction to Occupational Therapy**

**(A-F only; )**

60689 001 LEC, Completely Online; Cindy Jacobs; 1 cr.

50419 B07 LEC, Online & Distance Lrng (ODL); Cindy Jacobs; 1 cr.

50420 C07 LEC, Online & Distance Lrng (ODL); Cindy Jacobs; 1 cr.

48658 D07 LEC, Online & Distance Lrng (ODL); Cindy Jacobs; 1 cr.

48659 E07 LEC, Online & Distance Lrng (ODL); Cindy Jacobs; 1 cr.



48013 011 FWK, In Person Term Based; Valerie Andersen; 3 cr.  
 48014 012 FWK, In Person Term Based; Valerie Andersen; 3 cr.  
 48015 013 FWK, In Person Term Based; Valerie Andersen; 3 cr.  
 48016 014 FWK, In Person Term Based; Valerie Andersen; 3 cr.  
 48017 016 FWK, In Person Term Based; Valerie Andersen; 3 cr.

### 7190 Ophthalmology Research Problems (H-N or Audit; )

48018 002 IND, In Person Term Based; Ruth Alliband; 1-15 cr.

### 7910 Ophthalmology Medical Residency (No Grade Associated; )

56686 001 FWK, In Person Term Based; 6 cr.

### 7930 Ophthalmology medical fellowship. (No Grade Associated; )

56687 001 FWK, In Person Term Based; 6 cr.

## Oral Biology (OBIO)

### 8012 Basic Concepts in Skeletal Biology (A-F or Audit; Prereq Grad student or instr consent.)

52822 001 LEC, 10:10-12:05 Th, , In Person Term Based; Rajaram Gopalakrishnan; 2 cr.

### 8024 Genetics and Human Disease

(Student Option; Prereq: Dental specialist or oral research trainee or instr consent)

52878 001 LEC, 10:10-11:00 Th, , 8:00- 8:50 T, , In Person Term Based; Rajaram Gopalakrishnan; 1 cr.

### 8028 Molecular Basis of Cellular and

#### Microbial Adhesion

(A-F or Audit; Prereq: Dental specialist or oral research trainee or instr consent)

55711 001 DIS, In Person Term Based; Mark Herzberg; 2 cr.

### 8030 Oral Biology Seminar

(S-N or Audit; Prereq: Dental specialist or oral research trainee or instr consent)

48937 001 LEC, 12:00-12:50 F, , In Person Term Based; Mark Herzberg; 1 cr.

### 8093 Tutorial in Oral Biology

(S-N only; Prereq: instr consent)

49852 001 IND, In Person Term Based; 1-2 cr.

### 8094 Directed Research

(S-N or Audit; Prereq: instr consent)

49853 001 IND, In Person Term Based; 1-10 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49146 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49239 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49343 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49454 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49550 001 IND, In Person Term Based; 1-24 cr.

## Oral and Maxillofacial Surgery (OSUR)

### 5257 Ambulatory General Anesthesia for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program.)

48055 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

### 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program.)

48054 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

### 8250 Oral and Maxillofacial Surgery Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48052 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

### 8251 Oral and Maxillofacial Surgery Core Curriculum

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48051 001 LEC, 13:25-15:30 Th, , In Person Term Based; Delores Mordorski; 0-2 cr.

### 8255 General Surgery Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48053 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

### 8256 Contemporary Anesthesia Literature Review

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48059 001 LEC, 8:00- 9:00 M, , In Person Term Based; Delores Mordorski; 0-6 cr.

### 8260 Surgical Rounds for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48058 001 LEC, 6:30- 7:30 T, , In Person Term Based; Delores Mordorski; 0-6 cr.

### 8262 Plastic Surgery Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48056 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

### 8267 Anesthesia Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program)

48057 001 FWK, In Person Term Based; Delores Mordorski; 0-6 cr.

## Org Leadership, Policy & Dev (OLPD)

### 1301W Personal Leadership in the University

(A-F only; WI)

58194 014 LEC, Completely Online; Meets With: 014 PA 1961W; Jessica Chung; 3 cr.

57430 013 LEC, Completely Online; Meets With: 013 PA 1961W; Jessica Chung; 3 cr.

60930 020 LEC, 11:15-12:30 TTh, Appleby Hall 226, In Person Term Based; Meets With: 020 PA 1961W; Jessica Chung; 3 cr.

58195 015 LEC, 13:00-14:15 MW, Appleby Hall 204, In Person Term Based; Meets With: 015 PA 1961W; Jessica Chung; 3 cr.

57317 011 LEC, 14:30-15:45 MW, Folwell Hall 5, In Person Term Based; Meets With: 011 PA 1961W; Jessica Chung; 3 cr.

57373 012 LEC, 17:30-20:30 T, Folwell Hall 18, In Person Term Based; Meets With: 012 PA 1961W; Jessica Chung; 3 cr.

60929 018 LEC, 14:30-15:45 TTh, Folwell Hall 28, In Person Term Based; Meets With: 018 PA 1961W; Jessica Chung; 3 cr.

56471 010 LEC, 9:45-11:00 MW, Nicholson Hall 355, In Person Term Based; Meets With: 010 PA 1961W; Jessica Chung; 3 cr.

59482 017 LEC, 13:00-14:15 MW, Nicholson Hall 355, In Person Term Based; Meets With: 017 PA 1961W; Jessica Chung; 3 cr.

58207 016 LEC, 11:15-12:30 F, Folwell Hall 103, Partially Online; Meets With: 016 PA 1961W; Jessica Chung; 3 cr.

54847 007 LEC, Completely Online; Meets With: 007 PA 1961W; Jessica Chung; 3 cr.

54813 005 LEC, 11:15-12:30 TTh, Appleby Hall 103, In Person Term Based; Meets With: 005 PA 1961W; Jessica Chung; 3 cr.

49008 001 LEC, 9:45-11:00 TTh, Appleby Hall 204, In Person Term Based; Meets With: 001 PA 1961W; Jessica Chung; 3 cr.

49807 002 LEC, 11:15-12:30 MW, Appleby Hall 204, In Person Term Based; Meets With: 002 PA 1961W; Jessica Chung; 3 cr.

53862 003 LEC, 13:00-14:15 TTh, Appleby Hall 204, In Person Term Based; Meets With: 003 PA 1961W; Jessica Chung; 3 cr.

54382 004 LEC, 16:00-17:15 TTh, Folwell Hall 16, In Person Term Based; Meets With: 004 PA 1961W; Jessica Chung; 3 cr.

56470 009 LEC, 17:30-20:30 W, Folwell Hall 32, In Person Term Based; Meets With: 009 PA 1961W; Jessica Chung; 3 cr.

56426 008 LEC, Completely Online; Meets With: 008 PA 1961W; Jessica Chung; 3 cr.

54814 006 LEC, 16:00-17:15 MW, Folwell Hall 104, In Person Term Based; Meets With: 006 PA 1961W; Jessica Chung; 3 cr.

### 1302 Personal Leadership in the University (A-F only; )

56717 001 LEC, 14:30-15:45 MW, Wulling Hall 240, In Person Term Based; 3 cr.

58247 003 LEC, 9:45-11:00 TTh, Wulling Hall 240, In Person Term Based; 3 cr.

59336 004 LEC, 11:15-12:30 MW, Wulling Hall 240, In Person Term Based; 3 cr.

56718 002 LEC, 14:30-15:45 TTh, Wulling Hall 240, In Person Term Based; Fernando Rodriguez; 3 cr.

### 2811 Societies of the Future: Changing Work Contexts

(A-F or Audit; TS)

57313 002 DIS, 13:00-14:15 TTh, Nicholson Hall 35, In Person Term Based; Meets With: 001 OLPD 2811H; Meg Fitzgerald-Sisk; 3 cr.

56652 001 DIS, 9:45-11:00 MW, Burton Hall 120, In Person Term Based; Meg Fitzgerald-Sisk; 3 cr.

### 2811H Societies of the Future: Changing Work Contexts, Honors

(A-F only; Prereq: Honors student/TS)

57695 001 DIS, 13:00-14:15 TTh, Nicholson Hall 35, In Person Term Based; Meets With: 002 OLPD 2811; Meg Fitzgerald-Sisk; 3 cr.

### 3202 Introduction to Strategies for Teaching Adults

(A-F or Audit; Prereq: Quality Matters certified)

56364 002 LEC, 11:15-12:30 TTh, Bruininks Hall 530A, Partially Online; Cynthia Digby; 3 cr.

55643 001 LEC, 16:40-19:20 W, Bruininks Hall 530B, Partially Online; Rosemarie Park; 3 cr.

### 3302 Leadership, You, and Your Community

(A-F only; )

57329 004 LEC, 13:00-14:15 MW, Appleby Hall 226, In Person Term Based; Meets With: 004 PA 3961; Jessica Chung; 3 cr.

68111 006 LEC, 11:15-12:30 MW, Folwell Hall 8, In Person Term Based; Meets With: 006 PA 3961; Jessica Chung; 3 cr.

58810 003 LEC, 16:00-17:15 MW, Folwell Hall 108, In Person Term Based; Meets With: 003 PA 3961; Jessica Chung; 3 cr.

60215 005 LEC, 14:30-15:45 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 005 PA 3961; Jessica Chung; 3 cr.

54141 002 LEC, 13:00-14:15 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 002 PA 3961; Jessica Chung; 3 cr.

49011 001 LEC, 9:45-11:00 TTh, Peik Hall 335, In Person Term Based; Meets With: 001 PA 3961; Jessica Chung; 3 cr.

### 3305 Learning About Leadership Through Film and Literature

**(Student Option; )**

60905 001 LEC, 16:40-19:20 M, Peik Hall 155, In Person Term Based; Oleksandr Tkachenko; 3 cr.

**3306 Leadership Minor: Field Experience****(A-F only; )**

68113 004 FWK, 9:45-11:00 MW, Appleby Hall 204, In Person Term Based; Meets With: 004 PA 3971; Jessica Chung; 3 cr.

58008 001 FWK, 9:45-11:00 TTh, Appleby Hall 226, In Person Term Based; Meets With: 001 PA 3971; Jessica Chung; 3 cr.

58010 003 FWK, 11:15-12:30 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 003 PA 3971; Jessica Chung; 3 cr.

58009 002 FWK, 16:00-17:15 MW, Bruininks Hall 530A, In Person Term Based; Meets With: 002 PA 3971; Ben Marcy; 3 cr.

**3318 Introduction to Project Management****(Student Option; )**

68341 003 DIS, In Person Term Based; Sammy Holquist; 3 cr.

58244 002 DIS, In Person Term Based; Anna Kaijper; 3 cr.

56719 001 DIS, 9:45-11:00 TTh, Scott Hall 4, In Person Term Based; Meg Fitzgerald-Sisk; 3 cr.

**3330 Global Identity: Connecting Your International Experience to Your Future**

**(Student Option; Prereq: [3320 or EDPA 3102 or instr consent], studying abroad the semester student is enrolled in course)**

61034 505 LEC, Study Abroad; 1 cr.

53355 502 LEC, Study Abroad; Gerald Fry; 1 cr.

**3336 Religion, Ethics, and Educational Policy****(Student Option; CIV)**

55517 001 LEC, 11:15-12:30 MW, Wulling Hall 220, In Person Term Based; Robert Osburn; 3 cr.

**3380 Developing Intercultural Competence****(A-F or Audit; )**

61166 001 DIS, 13:00-14:15 TTh, Peik Hall 165, In Person Term Based; 3 cr.

**3401 Teaching Marketing Promotion****(A-F or Audit; )**

56443 002 LEC, 9:45-11:00 TTh, Peik Hall 375, In Person Term Based; 3 cr.

56442 001 LEC, 16:40-19:20 T, Peik Hall 375, In Person Term Based; 3 cr.

57540 003 LEC, 16:00-17:15 MW, Peik Hall 215, In Person Term Based; 3 cr.

**3424 Sales Training****(A-F or Audit; )**

56438 002 LEC, 11:15-12:30 MW, Burton Hall 125, In Person Term Based; Roy Gaddey; 3 cr.

57541 003 LEC, 13:00-14:15 TTh, Peik Hall 375, In Person Term Based; Roy Gaddey; 3 cr.

56437 001 LEC, 16:40-19:20 W, Scott Hall 4, In Person Term Based; Roy Gaddey; 3 cr.

**3496 Profession and Practice of Business and Marketing Education**

**(A-F or Audit; Prereq: Undergrad student, BME major, OLPD 3318, OLPD 3401, OLPD 3424, and OLPD 4426 completed or in progress.)**

57553 002 LEC, In Person Term Based; 2 cr.

56841 001 LEC, 10:10-12:05 F, Burton Hall 123, In Person Term Based; 2 cr.

68355 003 DIS, 9:05-11:00 W, Peik Hall 225, In Person Term Based; 2 cr.

**3601 Introduction to Human Resource Development****(A-F or Audit; )**

51477 001 LEC, 11:15-12:30 TTh, Bruininks Hall 412, In Person Term Based; Louis Quast; 3 cr.

**3620 Introduction to Training and Development****(A-F or Audit; )**

56360 002 LEC, 13:00-14:15 MW, Wulling Hall 240, In Person Term Based; 3 cr.

52646 001 LEC, 16:40-19:20 M, Appleby Hall 226, In Person Term Based; Walter Novillo; 3 cr.

**3640 Introduction to Organization Development****(A-F or Audit; )**

52699 001 LEC, 11:15-12:30 MW, Armory Building 116, In Person Term Based; David Christesen; 3 cr.

**3696 Profession and Practice of Human Resource Development**

**(A-F or Audit; Prereq: Undergrad student, HRD major, 3 of following 4 courses need to be completed or in progress: 3202, 3601, 3620, 3640)**

68342 002 LEC, 9:05-11:00 W, Burton Hall 123, In Person Term Based; 2 cr.

52902 001 LEC, 10:10-12:05 F, Peik Hall 375, In Person Term Based; 2 cr.

**3805 Introduction to Strategic Planning Through Human Resources****(A-F or Audit; Prereq: 3601 or HRD 3001)**

54388 001 LEC, 16:40-19:20 W, Room TBA, In Person Term Based; 3 cr.

**3820 Principles of Supervisory Management****(Student Option; )**

56436 001 LEC, 13:00-14:15 WF, Room TBA, In Person Term Based; 3 cr.

**3828 Diversity in the Workplace****(A-F or Audit; )**

56625 001 DIS, 16:40-19:20 Th, Wulling Hall 240, In Person Term Based; 3 cr.

**4303W Leadership for Global Citizenship****(A-F only; GP,WI)**

68329 004 LEC, 11:15-12:30 TTh, Appleby Hall 204, In Person Term Based; Meets With: 004 PA 4961W; David Hellstrom; 3 cr.

54848 002 LEC, 18:30-21:00 T, Folwell Hall 16, Partially Online; Meets With: 002 PA 4961W; Jessica Chung; 3 cr.

58811 003 LEC, 13:00-14:15 TTh, Appleby Hall 226, In Person Term Based; Meets With: 003 PA 4961W; Jessica Chung; 3 cr.

58003 001 LEC, 13:00-14:15 MW, Nicholson Hall 345, In Person Term Based; Meets With: 001 PA 4961W; Jessica Chung; 3 cr.

**4318 Advanced Project Management****(A-F or Audit; Prereq: 3318 or EDPA 3218)**

65507 001 DIS, 11:15-12:30 MW, Peik Hall 375, In Person Term Based; Meg Fitzgerald-Sisk; 3 cr.

**4400 Education for Small Business Entrepreneurship****(A-F or Audit; )**

56840 001 IND, 14:30-15:45 MW, Room TBA, In Person Term Based; 3 cr.

**4401 E-Marketing****(A-F or Audit; )**

56843 001 IND, 16:40-19:20 Th, Bruininks Hall 131B, In Person Term Based; Walter Novillo; 3 cr.

**4420 Practicum in Nonprofit Organizations****(A-F or Audit; Prereq: BME major recommended)**

56842 001 IND, 14:30-16:00 T, Room TBA, In Person Term Based; 2 cr.

68356 002 IND, In Person Term Based; Walter Novillo; 2 cr.

**4426 Strategic Customer Relationship Management****(A-F or Audit; )**

56439 001 LEC, 14:30-15:45 MW, Peik Hall 375, In Person Term Based; 3 cr.

56440 002 LEC, 11:15-12:30 TTh, Carlson School of Mgmt 1-149, In Person Term Based; 3 cr.

57542 003 LEC, 16:40-19:20 T, Wulling Hall 240, In Person Term Based; Daniel Woldeab; 3 cr.

**4496 Applied Experience in Business & Marketing Education**

**(S-N only; Prereq: BME major, ugrd, [3496 or concurrent registration is required (or allowed) in 3496])**

56716 001 FWK, In Person Term Based; Peter Campion; 1-4 cr.

**4696 Internship: Human Resource Development**

**(S-N only; Prereq: Undergrad student, HRD major, [concurrent registration is required (or allowed) in 3696 or completed])**

56466 001 FWK, In Person Term Based; Alexandra Willetts; 1-4 cr.

**4870 Introduction to Integrating Human Rights into Organizational Leadership****(A-F or Audit; )**

56844 001 DIS, Completely Online; Natela Jordan; 3 cr.

**5000 Cultures, Schools, and Communities (Human Relations)****(A-F only; )**

65572 001 DIS, 9:00-13:00 W, Appleby Hall 319, In Person Term Based; Peter Demerath; 1 cr.

**5001 Formal Organizations in Education****(Student Option; )**

53014 001 LEC, 16:40-19:20 M, Fraser Hall 101, In Person Term Based; 3 cr.

**5005 School and Society**

**(A-F or Audit; Prereq: Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent)**

46440 001 LEC, 16:40-18:50 M, Scott Hall 4, In Person Term Based; Peter Demerath; 2 cr.

**5009 Human Relations: Applied Skills for School and Society**

**(A-F or Audit; Prereq: MEd/init lic or CLA music ed or preteaching or instr consent)**

46444 001 LEC, 8:05-11:00 W, Pillsbury Hall 110, In Person Term Based; Peter Demerath; 1 cr.

**5020 Cultures, Schools, and Communities (Human Relations)**

**(A-F only; Prereq: Enrolled in teacher initial licensure program)**

57737 001 DIS, 16:40-18:40 W, Burton Hall 123, 16:40-18:40 W, Peik Hall 225, 16:40-18:40 W, Peik Hall 225, In Person Term Based; Peter Demerath; 1 cr.

57738 002 DIS, 16:40-18:40 W, Burton Hall 125, 16:40-18:40 W, Appleby Hall 204, 16:40-18:40 W, Appleby Hall 204, 16:40-18:40 W, Appleby Hall 204, In Person Term Based; Peter Demerath; 1 cr.

57742 006 DIS, 16:40-18:40 W, Peik Hall 165, 16:40-18:40 W, Wulling Hall 240, 16:40-18:40 W, Wulling Hall 240, 16:40-18:40 W, Wulling Hall 240, In Person Term Based; Peter Demerath; 1 cr.

57739 003 DIS, 16:40-18:40 W, Peik Hall 375, 16:40-18:40 W, Burton Hall 123, 16:40-18:40 W, Burton Hall 123, 16:40-18:40 W, Burton Hall 123, In Person Term Based; Peter Demerath; 1 cr.

57743 007 DIS, 16:40-18:40 W, Wulling Hall 220, 16:40-18:40 W, Wulling Hall 220, 16:40-18:40 W, Wulling Hall 220, In Person Term Based; Peter Demerath; 1 cr.

57740 004 DIS, 16:40-18:40 W, Wulling Hall 240, 16:40-18:40 W, Burton Hall 125, 16:40-18:40 W, Burton Hall 125, 16:40-18:40 W, Burton Hall 125, In Person Term Based; Peter Demerath; 1 cr.

57900 012 LEC, 16:40-20:40 W, Fraser Hall 101, 16:40-20:40 W, Fraser Hall 101, 16:40-20:40 W, Fraser Hall 101, 9:00-13:00 W, Room TBA, In Person Term Based; Michael Goh; 1 cr.

57741 005 DIS, 16:40-18:40 W, Peik Hall 335, 16:40-18:40 W, Peik Hall 375, 16:40-18:40 W, Peik Hall 375, 16:40-18:40 W, Peik Hall 375, In Person Term Based; Peter Demerath; 1 cr.

**5044 Introduction to the Economics of Education****(Student Option; )**

57677 001 LEC, Completely Online; 3 cr.

60606 002 LEC, 16:40-19:20 Th, Magrath Library 4, In Person Term Based; Nicola Alexander; 3 cr.

**5061 Ethnographic Research Methods****(Student Option; )**

52909 001 LEC, 16:40-19:20 M, Burton Hall 123, In Person Term Based; Roozbeh Shirazi; 3 cr.

**5080 Special Topics: Organizational Leadership, Policy, & Development****(Student Option; )**

54372 031 LEC, In Person Term Based; 1-3 cr.

56932 071 LEC, In Person Term Based; 1-3 cr.

57784 013 LEC, In Person Term Based; Karen Storm; 1-3 cr.

65601 001 LEC, 16:40-19:20 T, Appleby Hall 223, In Person Term Based; Christopher Johnstone; 1-3 cr.

**5095 Problems: Organizational Leadership, Policy, and Development****(Student Option; )**



54884 004 LEC, 9:00-11:30 T, Cooke Hall 215, In Person Term Based; David Chapman; 1-3 cr.

**8096 Internship: Organizational Leadership, Policy, and Development**  
(Student Option; )

46220 001 FWK, In Person Term Based; Julie Bishop-Hogan; 1-9 cr.

**8103 Comparative Education**  
(A-F or Audit; )

57678 001 LEC, 9:45-12:25 Th, Hubert H. Humphrey Center 60, In Person Term Based; Joan Dejaeghere; 3 cr.

**8121 Doctoral Seminar: Comparative and International Development Education**  
(S-N or Audit; Prereq: EdPA PhD candidate)

65533 061 LEC, Completely Online; Deanne Magnusson; 1-6 cr.

58264 004 LEC, 9:45-12:25 F, Folwell Hall 107, In Person Term Based; Christopher Johnstone; 1-6 cr.

53200 002 LEC, 9:30-11:30 F, Peik Hall 155, In Person Term Based; Christopher Johnstone; 1-6 cr.

**8314 Data Analysis for Educational Management**  
(Student Option; )

68936 001 LEC, 16:40-19:20 M, Folwell Hall 121, In Person Term Based; Melissa Anderson; 3 cr.

**8502 Program Evaluation Theory and Models: Qualitative and Quantitative Alternatives**  
(Student Option; Prereq: 5501 or EDPA 5501 or EPSY 5243)

56248 001 LEC, 16:40-19:20 T, Wulling Hall 220, Partially Online; Stuart Yeh; 3 cr.

**8595 Evaluation Problems**  
(Student Option; Prereq: [5501 or EDPA 5501 or EPSY 5243], instr consent)

65534 001 IND, 16:40-19:20 T, Appleby Hall 303, In Person Term Based; Jean King; 1-6 cr.

**8596 Evaluation Internship**  
(Student Option; Prereq: [5501 or EDPA 5501 or EPSY 5243], instr consent)

55591 001 FWK, 16:30-18:00 Th, Appleby Hall 204, Partially Online; Melissa Haynes; 1-9 cr.

**8602 Advanced Organization Development**  
(A-F or Audit; Prereq: 5607 or HRD 5301)

56624 001 LEC, 14:00-16:40 F, Wulling Hall 250, In Person Term Based; Alexandre Ardichvili; 3 cr.

**8702 Administration and Leadership in Higher Education**  
(Student Option; Prereq: [5001 or EDPA 5001], [5701 or EDPA 5701])

56839 001 DIS, 16:40-19:20 M, Appleby Hall 204, In Person Term Based; David Weerts; 3 cr.

**8800 Organizational Leadership, Policy, and Development Colloquium**  
(Student Option; )

58269 002 LEC, In Person Term Based; 1-3 cr.  
58270 003 LEC, In Person Term Based; 1-3 cr.  
58271 004 LEC, In Person Term Based; 1-3 cr.  
58272 005 LEC, In Person Term Based; 1-3 cr.

**8815 Ethics and Responsible Research**  
(A-F or Audit; )

55319 001 LEC, 16:40-18:20 Th, Room TBA, In Person Term Based; James Brown; 1 cr.

**8842 Comparative Systems in Organizational Leadership, Policy, and Development**  
(Student Option; Prereq: 8141 or WHRE 8141)

68045 001 LEC, In Person Term Based; 3 cr.

**8896 Internship**  
(S-N or Audit; )

46457 001 FWK, In Person Term Based; 1-10 cr.

49955 001 LEC, In Person Term Based; Wendy Johnson; 0-5 cr.

**7113 Diagnosis & Treatment Planning**  
(A-F or Audit; Prereq: Admission to graduate orthodontic program.)

49956 001 LEC, In Person Term Based; Wendy Johnson; 0-5 cr.

**7203 Clinical Orthodontics**  
(A-F or Audit; Prereq: Admission to graduate orthodontic program.)

49957 001 FWK, In Person Term Based; Wendy Johnson; 0-5 cr.

**8123 Orthodontic Seminar**  
(A-F or Audit; Prereq: Orthodontic grad student)

49958 001 LEC, In Person Term Based; Wendy Johnson; 0-5 cr.

**8133 Topics in Orthodontics**  
(A-F or Audit; Prereq: Orthodontic grad student)

49959 001 LEC, In Person Term Based; Wendy Johnson; 0-5 cr.

**8143 Research in Orthodontics**  
(A-F or Audit; Prereq: Orthodontic grad student)

49960 001 LEC, In Person Term Based; Wendy Johnson; 0-5 cr.

**Orthopaedic Surgery (ORSU)**

**7180 Orthopaedics I**  
(H-N or Audit; )

48019 005 FWK, In Person Term Based; 3-6 cr.  
48020 006 FWK, In Person Term Based; 3-6 cr.

**7185 Orthopaedics II: Externship in Orthopaedic Surgery**  
(H-N or Audit; )

48021 004 FWK, In Person Term Based; 3-6 cr.

**7186 Research Problems in Orthopaedic Surgery**  
(H-N or Audit; )

48022 004 IND, In Person Term Based; 2-12 cr.

**7188 Externship in Orthopaedic Surgery-CL**  
(H-N or Audit; )

48023 006 FWK, In Person Term Based; 3-6 cr.

**7190 Externship in Orthopaedic Surgery-VA**  
(H-N or Audit; )

48024 007 FWK, In Person Term Based; 3-6 cr.

**7191 Orthopaedic Externship-HC**  
(H-N or Audit; )

48025 007 FWK, In Person Term Based; 3-6 cr.

**7192 Primary Care Orthopaedics-MT**  
(H-N or Audit; )

48026 007 FWK, In Person Term Based; 3-6 cr.

**7195 Orthopaedics for the Generalist**  
(H-N or Audit; )

48027 005 ROT, In Person Term Based; 4 cr.

**7200 Orthopaedic Surgical Subspecialty**  
(P-N or Audit; Prereq: Med student)

50302 001 FWK, In Person Term Based; 2-4 cr.

**7910 Orthopaedic Surgery Medical Residency**  
(No Grade Associated; )

56689 001 FWK, In Person Term Based; 6 cr.

**7930 Orthopaedic Surgery Medical Fellowship**  
(No Grade Associated; )

56688 001 FWK, In Person Term Based; 6 cr.

(A-F or Audit; Prereq: Otolaryngology major or instr consent)

48134 001 LEC, In Person Term Based; Kathleen Daly; 2 cr.

**5102 Introduction to the Basic Sciences in Otolaryngology II: Head and Neck**  
(A-F or Audit; Prereq: Otol major or instr consent)

48135 001 LEC, In Person Term Based; Kathleen Daly; 2 cr.

**5993 Directed Studies**  
(Student Option; Prereq: instr consent)

48136 001 IND, In Person Term Based; Faith Courchane; 1-12 cr.

52877 002 IND, In Person Term Based; Faith Courchane; 1-12 cr.

**7200 Surgical Specialty: Otolaryngology**  
(P-N or Audit; )

48049 001 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68378 002 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68379 003 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68380 004 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68381 005 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68382 006 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68383 007 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68384 008 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68385 017 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68386 018 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68387 019 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

68388 020 FWK, In Person Term Based; Faith Courchane;

2-4 cr.

**7400 Surgical Specialty: Otolaryngology Elective**  
(H-N or Audit; )

52781 001 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68389 002 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68390 003 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68391 004 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68392 005 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68393 006 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68394 007 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

68395 008 FWK, In Person Term Based; Faith Courchane; 2-4 cr.

**7501 Acting Internship- ENT**  
(H-N or Audit; )

68398 017 FWK, In Person Term Based; Faith Courchane; 2-6 cr.

48050 018 FWK, In Person Term Based; Faith Courchane; 2-6 cr.

68400 019 FWK, In Person Term Based; Faith Courchane; 2-6 cr.

68401 020 FWK, In Person Term Based; Faith Courchane; 2-6 cr.

**7503 Research in Basic Science - ENT**  
(H-N or Audit; )

53025 021 IND, In Person Term Based; Faith Courchane; 2-8 cr.

68403 022 IND, In Person Term Based; Faith Courchane; 2-8 cr.

68404 023 IND, In Person Term Based; Faith Courchane; 2-8 cr.

**7910 Otolaryngology Medical Residency**  
(No Grade Associated; )

56550 001 FWK, In Person Term Based; 6 cr.

**7930 Otolaryngology Medical Fellowship**  
(No Grade Associated; )

56690 001 FWK, In Person Term Based; 6 cr.

**8230 Clinical Otorhinolaryngology**  
(A-F or Audit; Prereq: Grad otol major)

**Orthodontics (OTHO)**

**7103 Growth & Development**  
(A-F or Audit; )

**Otolaryngology (OTOL)**

**5101 Introduction to the Basic Sciences in Otolaryngology I: Ear**

48114 001 FWK, In Person Term Based; Peter Hilger; 4 cr.

**8231 Surgery of the Ear, Nose, and Throat**  
(A-F or Audit; Prereq: Grad otol major)

48115 001 FWK, In Person Term Based; Peter Hilger; 3 cr.

**8232 Maxillofacial Surgery**

(A-F or Audit; Prereq: Grad otol major)

48116 001 FWK, In Person Term Based; Peter Hilger; 1 cr.

**8233 Plastic and Reconstructive Surgery: Head and Neck**

(A-F or Audit; Prereq: Otol major)

48117 001 FWK, In Person Term Based; Peter Hilger; 1 cr.

**8234 Anatomy of the Head and Neck and Temporal Bone Dissection**

(Student Option; Prereq: Grad otol major or instr consent)

48118 001 LAB, In Person Term Based; Samuel Levine; 2 cr.

**8235 Roentgenology of the Head and Neck**

(A-F or Audit; Prereq: Grad otol major)

48119 001 FWK, In Person Term Based; Faith Courchane; 1 cr.

**8236 Pharmacology in Otolaryngology**

(A-F or Audit; Prereq: Grad otol major)

48120 001 FWK, In Person Term Based; Faith Courchane; 1 cr.

**8237 Endoscopy**

(A-F or Audit; Prereq: Grad otol major)

48121 001 FWK, In Person Term Based; Frank Rimell; 1 cr.

**8238 Pathology of the Ear, Nose, and Throat**

(A-F or Audit; Prereq: Grad otol major)

48122 001 FWK, In Person Term Based; Robert Maisel; 1 cr.

**8239 Otoneurology**

(Student Option; Prereq: Grad otol major or instr consent)

52807 001 FWK, In Person Term Based; John Anderson; 1-2 cr.

**8240 Allergy**

(A-F or Audit; Prereq: Grad otol major)

48123 001 FWK, In Person Term Based; Holly Boyer; 1 cr.

**8241 Cancer of the Head and Neck**

(A-F or Audit; Prereq: Grad otol major)

48124 001 FWK, In Person Term Based; Robert Maisel; 1 cr.

**8242 Audiology and Speech Pathology**

(Student Option; Prereq: Grad otol major or instr consent)

48125 001 LEC, In Person Term Based; Robert Margolis; 2 cr.

**8243 Introduction to Research**

**Methodology**

(Student Option; Prereq: Grad otol major or instr consent)

48126 001 LEC, In Person Term Based; Kathleen Daly; 1 cr.

**8244 Seminar: Current Literature**

(Student Option; Prereq: Grad otol major or instr consent)

48127 001 LEC, In Person Term Based; Kathleen Daly; 1 cr.

**8247 Anatomy and Physiology of Hearing and Balance**

(Student Option; Prereq: instr consent)

56447 001 LEC, In Person Term Based; 3 cr.

**8248 Directed Readings in Auditory Physiology**

(Student Option; Prereq: instr consent)

48129 001 IND, In Person Term Based; John Anderson; 1-2 cr.

**8250 Advanced Biochemistry of the Auditory System**

(Student Option; Prereq: MdBc 6100, MdBc 6101 or equiv or instr consent)

48130 001 LEC, In Person Term Based; Steven Juhn; 1 cr.

**8262 Advanced Clinical Audiology**

(Student Option; Prereq: Grad otol major, 8242 or instr consent)

48128 001 FWK, In Person Term Based; Robert Margolis; 2 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49147 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49240 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49344 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49455 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49551 001 IND, In Person Term Based; 1-24 cr.

**Pathology (PATH)**

**7865 Departmental Seminar**

(H-N or Audit; )

49939 001 LEC, In Person Term Based; 1 cr.

**Pediatric Dentistry (PDEN)**

**7000 Directed Research in Pediatric Dentistry**

(S-N or Audit; )

54384 001 IND, In Person Term Based; Soraya Beiraghi; 1 cr.

**7010 Fundamentals of Pediatric Dentistry**

(A-F only; )

49738 001 LEC, In Person Term Based; Soraya Beiraghi; 0-2 cr.

**7100 Advanced Clinical Pediatric Dentistry**

(S-N or Audit; )

48995 001 FWK, In Person Term Based; Soraya Beiraghi; 1-6 cr.

**8010 Pediatric Dentistry Diagnosis and Treatment Planning**

(S-N only; )

48998 001 LEC, In Person Term Based; Soraya Beiraghi; 1 cr.

**8031 Independent Study in Pediatric Dentistry**

(S-N only; )

49694 001 DIS, In Person Term Based; Soraya Beiraghi; 2 cr.

**8100 Hospital Pediatric Dentistry**

(S-N or Audit; )

48996 001 FWK, In Person Term Based; Ronald Grothe; 1 cr.  
54830 003 FWK, In Person Term Based; Ronald Grothe; 1 cr.

**8110 Pediatric Dentistry Outreach Experiences**

(S-N or Audit; )

48997 001 FWK, In Person Term Based; Ronald Grothe; 1 cr.

**Pediatrics (PED)**

**7501 Pediatric Externship**

(H-N or Audit; )

49994 001 FWK, In Person Term Based; Sara Duxbury; 6 cr.

**7512 Pediatric Acting Internship**

(H-N or Audit; Prereq: 7501)

49995 001 FWK, In Person Term Based; Benjamin Roschke; 2-6 cr.

**7531 Psychology Internship**

(No Grade Associated; Prereq: psych grad)

49819 001 LEC, In Person Term Based; Emily Gray; 12 cr.

**7533 Clinical Allergy at Fairview-University Medical Center**

(H-N or Audit; )

50303 001 FWK, In Person Term Based; Benjamin Roschke; 3-6 cr.

**7534 Pediatric Cardiology at Fairview-University Medical Center**

(H-N or Audit; )

49980 001 FWK, In Person Term Based; Sara Duxbury; 3-6 cr.

**7535 Pediatric Infectious Diseases**

(H-N or Audit; Prereq: one ped rotation)

49996 001 FWK, In Person Term Based; Sara Duxbury; 4-6 cr.

**7536 Pediatric Hematology/Oncology/Bone Marrow Transplantation**

(H-N or Audit; Prereq: 7501, 7512, or Med 7500.)

49997 001 FWK, In Person Term Based; Sara Duxbury; 2-6 cr.

**7537 Pediatric Endocrinology and Metabolism**

(H-N or Audit; Prereq: 7501, 7512, or Med 7500)

49983 001 FWK, In Person Term Based; Sara Duxbury; 2-6 cr.

**7538 Pediatric Gastroenterology and Nutrition**

(H-N or Audit; )

49998 001 FWK, In Person Term Based; Sara Duxbury; 2-6 cr.

**7539 Neonatal Medicine Externship**

(H-N or Audit; Prereq: 7501, 7512, or Med 5700)

50296 001 FWK, In Person Term Based; Sara Duxbury; 3-6 cr.

**7540 Pediatric Neurology**

(H-N or Audit; )

55918 001 FWK, In Person Term Based; 4 cr.

**7543 Pediatric Nephrology at Fairview-University Medical Center**

(H-N or Audit; )

49999 001 FWK, In Person Term Based; Sara Duxbury; 3-6 cr.

**7544 Pulmonary Disease in Pediatrics**

(H-N or Audit; )

50012 001 FWK, In Person Term Based; Sara Duxbury; 4-12 cr.

**7548 Clinical Genetics**

(H-N or Audit; )

50000 001 FWK, In Person Term Based; Sara Duxbury; 2-6 cr.

**7553 Adolescent Medicine**

(H-N or Audit; Prereq: enrolled yr 4 med)

50001 001 FWK, In Person Term Based; Sara Duxbury; 3-6 cr.

**7555 Neonatal Clerkship - Marshfield, WI**

(H-N or Audit; Prereq: 7512, enrolled yr 4 med)

55919 001 ROT, In Person Term Based; 4 cr.

**7556 Pediatric Clerkship - Marshfield, WI**

(H-N or Audit; Prereq: 7501, enrolled yr 4 med)

55920 001 ROT, In Person Term Based; 4 cr.

**7559 Pediatric Clinical Care Medicine**

(H-N or Audit; Prereq: 7501 and/or 7512.)

50002 001 FWK, In Person Term Based; Sara Duxbury; 3-4 cr.

**7560 Research/Special Problems in Pediatrics**

(H-N or Audit; Prereq: InMd 6104)

49001 001 IND, In Person Term Based; Sara Duxbury; 1-15 cr.

**7583 Fundamentals of Clinical Oncology**

(H-N or Audit; Prereq: Med 7500 or 7501)

51706 001 FWK, In Person Term Based; 4 cr.

**7700 Primary Care Clinics: Pediatrics**

(P-N only; )

56721 001 ROT, 8:30-13:30 F, , 9:00-10:30 M, , In Person Term Based; Meets With: 001 MED 7700001 MED 7701001 FMCH 7700; Sally Berryman; 4 cr.

**7910 Pediatric Medical Residency**

(No Grade Associated; )

56692 001 FWK, In Person Term Based; 6 cr.

**7930 Pediatric Medical Fellowship**

(No Grade Associated; )

56691 001 FWK, In Person Term Based; 6 cr.

**Periodontics (PERO)****5123 Practice Management Externship**

(Student Option; Prereq: Resident in advanced education program in periodontology)

49737 001 LEC, In Person Term Based; 1 cr.

**7321 Periodontics/Orthodontics Seminar**

(S-N only; )

49833 001 LEC, 12:00-13:00 M, , In Person Term Based; 1 cr.

**7322 Multidisciplinary Treatment Seminar in Dentistry Related to Periodontics**

(S-N or Audit; Prereq: Resident enrolled in [periodontology, endodontics, pediatric dentistry, AEGD/GPR, prosthodontics])

52810 001 LEC, In Person Term Based; 1 cr.

**8000 Advanced Clinical Periodontology**

(A-F or Audit; Prereq: Resident in advanced education program in periodontology)

49012 001 FWK, In Person Term Based; 1-3 cr.

**8200 Clinical Seminars**

(Student Option; Prereq: Resident in advanced education program in periodontology)

49013 001 LEC, 9:00- 9:50 M, , In Person Term Based; 1 cr.

**8250 Anatomy of the Periodontium**

(A-F or Audit; Prereq: Resident in advanced education program in periodontology)

50316 001 LEC, In Person Term Based; 1 cr.

**Pharmaceutics (PHM)****8100 Seminar: Pharmaceutics**

(S-N or Audit; Prereq: Grad Phm major)

48544 001 LEC, 15:00-16:00 T, , In Person Term Based; Meets With: 001 PHAR 6260; William Elmquist; 1 cr.

**8110 Readings in Pharmaceutics**

(S-N or Audit; Prereq: Grad Phm major)

48620 001 LEC, In Person Term Based; Jody Tracy; 1 cr.

**8120 Readings in Central Nervous System (CNS) Drug Delivery**

(S-N only; Prereq: instr consent)

54889 001 IND, In Person Term Based; Carolyn Fairbanks; 1 cr.

**8150 Pharmacokinetics Research Seminar**

(S-N or Audit; Prereq: Grad Phm major)

52354 001 LEC, In Person Term Based; Jody Tracy; 1 cr.

**8295 Research Problems in Pharmaceutics**

(S-N or Audit; Prereq: instr consent)

49722 001 IND, In Person Term Based; Jody Tracy; 1-12 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

59625 001 IND, In Person Term Based; Jody Tracy; 1 cr.

**8431 Controlled Drug and Gene Delivery: Materials, Mechanisms, and Models**

(A-F or Audit; Prereq: Differential equations course including introduction to partial differential equations or instr consent)

57587 001 LEC, In Person Term Based; Meets With: 001 BMEN 8431; Ronald Siegel; 4 cr.

**8441 Solubility and Solid-State Properties of Drugs**

(A-F or Audit; Prereq: Physical chem survey course or instr consent)

61598 001 LEC, In Person Term Based; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49243 001 IND, In Person Term Based; Jody Tracy; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49347 001 IND, In Person Term Based; Jody Tracy; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

59626 001 IND, In Person Term Based; Jody Tracy; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49554 001 IND, In Person Term Based; Jody Tracy; 1-24 cr.

**Pharmacology (PHCL)****3100 Pharmacology for Pre-Med and Life Science Students**

(A-F or Audit; Prereq: College-level biology, biochemistry or physiology recommended)

52604 001 LEC, 13:25-15:20 W, , In Person Term Based; Li-Na Wei; 2 cr.

**4001 Mechanisms of Drug Action**

(A-F or Audit; Prereq: Upper div or instr consent; [prev or concurrent] courses in [biology, biochemistry] recommended)

61038 001 LEC, 9:05- 9:55 TTh, , In Person Term Based; Gregory Connell; 2 cr.

**4003 Anti-infective drugs: Drugs that kill invaders**

(A-F or Audit; Prereq: College-level biology)

58000 001 LEC, 10:10-11:00 MW, , In Person Term Based; Hiroshi Hiasa; 2 cr.

**4100 Laboratory in Molecular Pharmacology**

(A-F only; Prereq: [2001 or 4001], 3100, [BioC 3021 or BioC 4331], [BioC 4025, BioC 4125 recommended])

61037 001 LAB, 13:25-16:50 Th, , In Person Term Based; Daniel Romero; 2 cr.

**5102 Pharmacology for Pharmacy Students II**

(A-F only; Prereq: 5101 or instr consent)

48920 001 LEC, 9:05- 9:55 WF, , In Person Term Based; Earl Dunham; 2 cr.

**5109 Problems in Pharmacology**

(Student Option; Prereq: Upper div or grad student or instr consent)

48932 001 IND, In Person Term Based; Colin Campbell; 1-18 cr.

**5111 Pharmacogenomics**

(A-F or Audit; Prereq: Grad student or instr consent)

49782 001 LEC, 15:30-17:30 W, , 12:00-13:00 M, , In Person Term Based; Colin Campbell; 3 cr.

**5462 Neuroscience Principles of Drug Abuse**

(Student Option; Prereq: instr consent)

58063 001 LEC, 14:30-16:25 Th, , In Person Term Based; Meets With: 001 NSC 5462; John Paton; 2 cr.

**8014 Small RNA Biology**

(A-F or Audit; Prereq: BIOC 8002 or MICA 8004 or equiv or instr consent)

57402 001 LEC, 13:00-14:30 Th, , In Person Term Based; Meets With: 001 NSC 8014001 MICA 8014001 GCD 8014; Subree Subramanian; 2 cr.

**8209 Substance Abuse at the Bedside**

(S-N only; Prereq: Grad student in any basic-science program)

55872 001 FWK, 8:00-11:30 T, , In Person Term Based; Gavin Bart; 1 cr.

55883 002 FWK, 8:00-11:30 T, , In Person Term Based; Gavin Bart; 1 cr.

**8211 Advanced Medical Pharmacology I**

(A-F only; Prereq: 5110, [grad student or instr consent])

60739 001 LEC, 9:00-12:00 T, , In Person Term Based; Colin Campbell; 5 cr.

**8320 Readings in Neurobiology**

(Student Option; Prereq: instr consent)

54797 001 DIS, 14:30-15:30 Th, , In Person Term Based; Meets With: 005 NSC 8320; Carolyn Fairbanks; 1-4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49149 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49241 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49345 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49456 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49552 001 IND, In Person Term Based; 1-24 cr.

**Pharmacy (PHAR)****1001 Orientation to Pharmacy**

(Student Option; )

48506 001 IND, Completely Online; Rebecca Balestrieri; 2 cr.

**1002 Medical Terminology**

(Student Option; )

48500 001 IND, Completely Online; Rebecca Balestrieri; 2 cr.

**1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions**

(Student Option; )

50908 001 IND, Completely Online; Amy Pittenger; 2 cr.

**1004 Common Prescription Drugs and Diseases**

(Student Option; )

53172 001 IND, Completely Online; Rebecca Balestrieri; 2 cr.

**1006 Orientation to Health Literacy and Communication**

(A-F only; )

57448 001 IND, Completely Online; Ann Lowry; 2 cr.

**3206 Issues in Health Literacy and Communication**

(A-F only; )

59259 001 IND, Completely Online; Ann Lowry; 3 cr.

**3601 Basic Human Physiology for the Health Professions**

(A-F only; Prereq: Medical terminology recommended)

69137 001 IND, Completely Online; Angela Cortese; 3 cr.

**3700 Fundamentals of Pharmacotherapy**

(A-F or Audit; Prereq: Medical terminology recommended)

54805 001 IND, Completely Online; Rebecca Balestrieri; 3 cr.

### 3800 Pharmacotherapy for the Health Professions

(A-F only; Prereq: Anatomy and physiology)  
51684 001 IND, Completely Online; Amy Pittenger; 3 cr.  
53171 002 IND, Completely Online; Angela Cortese; 3 cr.

### 4200W Drugs and the U.S. Healthcare System

(Student Option; CIV,WI)  
54302 001 IND, Completely Online; Amy Pittenger; 3 cr.

### 4293 Directed Research I for Undergraduates

(Student Option; Prereq: undergrad, instr consent)  
59859 001 IND, In Person Term Based; 1-5 cr.

### 4294 Directed Study I for Undergraduates

(Student Option; Prereq: Undergrad, instr consent)  
59860 001 IND, In Person Term Based; 1-5 cr.

### 5200 Drugs and the U.S. Healthcare System

(Student Option; )  
53782 001 IND, Completely Online; Amy Pittenger; 3 cr.

### 5201 Applied Health Sciences Terminology

(Student Option; Prereq: Basic knowledge of human anatomy/physiology)  
48501 001 IND, Completely Online; Amy Pittenger; 2 cr.

### 5205 Obesity: Issues, Interventions, Innovations

(Student Option; Prereq: Second or third year pharmacy student, or student enrolled in a graduate science or health-related program. Biochemistry and physiology suggested.)  
57450 001 IND, Completely Online; Anna Milone; 2 cr.

### 5206 Applied Health Literacy and Communication

(A-F only; )  
57449 001 IND, Completely Online; Ann Lowry; 3 cr.

### 5700 Applied Fundamentals of Pharmacotherapy

(A-F only; Prereq: Medical terminology recommended)  
53821 001 IND, Completely Online; Rebecca Balestrieri; 3 cr.

### 6124 Pharmacotherapy IV: Patient-centered Pathophysiologic Approach

(A-F only; Prereq: 6121, 6122, 6123, 6155, 6163)  
49805 001 LEC, 9:05-9:55 F, , 10:10-12:05 TTh, , In Person Term Based; Mark Kirstein; 5 cr.

### 6133 Pharmacy Practice Management

(A-F only; Prereq: 3rd year pharmacy student)  
48326 001 LEC, 11:15-12:05 MWF, , In Person Term Based; Ronald Hadsall; 3 cr.

### 6135 Pharmacy Outcomes

(A-F only; Prereq: 6123, 6175)  
51720 001 LEC, 13:25-15:20 Th, , In Person Term Based; Jeannine Conway; 2 cr.

### 6136 Pharmacy Law

(A-F only; Prereq: 3rd yr pharmacy student)  
55758 001 LEC, 8:00-9:55 W, , In Person Term Based; Jennell Bilek; 1 cr.

### 6137 Ethics in Pharmacy Practice

(A-F only; Prereq: 3rd yr pharmacy student)  
55759 001 LEC, 8:00-9:55 W, , In Person Term Based; Paul Ranelli; 1 cr.

### 6150 CoP Honors: Medicinal Chemistry Seminar

(A-F only; Prereq: instr consent)  
48934 001 LEC, 15:30-17:00 T, Moos Health Sci Tower 2-520, In Person Term Based; Meets With: 001 MEDC 8100; Carrie Haskell-Luevano; 1 cr.

### 6157 Human Nutrition and Drug Therapy

(A-F only; Prereq: 6152)  
48327 001 LEC, 10:10-11:00 MWF, , In Person Term Based; W. Thomas Shier; 3 cr.

### 6160 CoP Honors: Experimental and Clinical Pharmacology Seminar

(A-F only; Prereq: instr consent)  
53742 001 LEC, 12:15-13:05 W, , In Person Term Based; Jatinder Lamba; 1 cr.

### 6182 Pharm.D. IV Seminar

(S-N only; Prereq: 4th yr pharmacy student, 6181)  
52579 001 LEC, 8:30-17:30 TWTh, , In Person Term Based; Yusuf Abul-Hajj; 1 cr.

### 6211 Non-Prescription Drug Therapy: Focus on Patient Self-Care

(A-F or Audit; Prereq: 6112)  
52582 001 LEC, 15:35-17:30 W, , In Person Term Based; Tom Larson; 2 cr.

### 6215 Applied Pharmacokinetics

(A-F or Audit; Prereq: 6163)  
59496 001 LEC, 15:35-17:30 Th, , In Person Term Based; Richard Brundage; 2 cr.

### 6219 Building a Pharmaceutical Care Practice

(A-F only; Prereq: 2nd or 3rd year pharmacy student)  
53741 001 LEC, 13:25-15:20 W, , In Person Term Based; Amanda Brummel; 2 cr.

### 6220 Pediatric Drug Therapy

(A-F or Audit; Prereq: 3rd or 4th yr pharmacy student)  
49019 001 LEC, 8:00-9:55 M, , In Person Term Based; Paul Jensen; 2 cr.

### 6222 Advanced Pharmaceutical Compounding

(A-F only; Prereq: 2nd or 3rd year pharmacy student)  
48709 001 LEC, 15:35-18:25 M, , In Person Term Based; Gary Carlson; 2 cr.

### 6223 Pharmacokinetics Research Seminar

(A-F or Audit; Prereq: 6163 with grade of "B" or better)  
50342 001 LEC, In Person Term Based; Cheryl Zimmerman; 1 cr.

### 6224 Pharmacogenomics: Genetic Basis for Variability in Drug Response

(A-F only; Prereq: At least 3rd year or later in healthcare or related program or equivalent experience or instr consent)  
57346 002 LEC, In Person Term Based; Pamala Jacobson; 2 cr.

### 6226 Interprofessional Diabetes Experience

(A-F only; Prereq: 2nd year or later pharmacy student)  
59497 001 LEC, 13:25-15:20 M, , In Person Term Based; Meets With: 001 NURS 5011; Mary Rowan; 2 cr.

### 6231 Community Pharmacy Management

(A-F only; )  
48328 001 LEC, 15:35-17:30 M, , In Person Term Based; Jon Schommer; 2 cr.

### 6232 Health System Pharmacy Management

(A-F only; Prereq: 2nd or 3rd yr pharmacy student)  
52580 001 LEC, 8:00-9:55 T, , In Person Term Based; Christene Jolowsky; 2 cr.

### 6238 Leading Change in Pharmacy II

(S-N or Audit; )  
54413 001 LEC, 15:35-17:30 T, , In Person Term Based; Todd Sorensen; 2 cr.

### 6249 Addiction Medicine, Substance Abuse, and Chemical Dependency

(A-F or Audit; Prereq: 2nd or 3rd yr Pharmacy student)  
60621 001 LEC, 15:35-17:30 Th, , In Person Term Based; Dan Berkner; 2 cr.

### 6250 CoP Honors: Social and Administrative Pharmacy Seminar

(A-F or Audit; Prereq: instr consent)  
48712 001 LEC, 15:30-17:00 Th, , In Person Term Based; Meets With: 001 SAPH 8100; Jon Schommer; 1 cr.

### 6257 Leadership Best Sellers for Pharmacists

(A-F only; )  
56641 001 DIS, In Person Term Based; Kristin Janke; 2 cr.

### 6260 CoP Honors: Pharmaceutics Seminar

(A-F or Audit; Prereq: instr consent)

48706 001 LEC, 15:00-16:00 T, , In Person Term Based; Meets With: 001 PHM 8100; William Elmquist; 1 cr.

### 6301 Veterinary Pharmacotherapy

(A-F only; Prereq: 3rd year pharmacy student)  
58174 001 LEC, Primarily Online; Ann Philbrick; 2 cr.

### 6715 Professional Development and Assessment Sequence I

(S-N only; Prereq: Successful completion of Becoming a Pharmacist)  
59858 001 DIS, 13:25-17:30 T, , 8:00-17:00 MTWF, , In Person Term Based; Derek Jennings; 1 cr.

### 6716 Applied Pharmaceutical Care

(A-F only; Prereq: Successful completion of Becoming a Pharmacist)  
59862 001 DIS, 11:15-12:05 F, , 10:10-12:05 MW, , In Person Term Based; Tom Larson; 3.2 cr.

### 6718 Drug Delivery II

(A-F only; Prereq: Successful completion of Drug Delivery I)  
59863 001 LEC, 13:25-14:15 MWF, , In Person Term Based; Ahmed Heikal; 2.4 cr.

### 6720 Pharmaceutical Care Skills Lab II

(A-F only; Prereq: Successful completion of Pharmaceutical Care Skills Lab I)  
59867 004 LAB, 8:00-9:55 Th, , In Person Term Based; Jennifer Chen; 2 cr.  
59868 005 LAB, 10:10-12:05 Th, , In Person Term Based; Jennifer Chen; 2 cr.  
59865 002 LAB, 13:25-15:20 Th, , In Person Term Based; Jennifer Chen; 2 cr.  
59866 003 LAB, 15:35-17:30 Th, , In Person Term Based; Jennifer Chen; 2 cr.  
59864 001 LEC, 10:10-12:05 T, , In Person Term Based; Jennifer Chen; 2 cr.

### 6722 Principles of Medicinal Chemistry

(A-F only; Prereq: Successful completion of Integrated Biochemical Sciences)  
59869 001 LEC, 15:35-16:25 MWF, , In Person Term Based; Venkatram Merreddy; 2.1 cr.

### 6724 Immune System and Infectious Disease

(A-F only; Prereq: Successful completion of Integrated Biochemical Sciences)  
59870 001 LEC, 14:30-15:20 MWF, , In Person Term Based; Grant Anderson; 3.1 cr.

### 6726 Principles of Pharmacology

(A-F only; Prereq: Successful completion of Foundations of SAPH)  
59871 001 LEC, 16:40-17:30 MWF, , In Person Term Based; Esam El-Fakahany; 2.3 cr.

### 6728 Pharmaceutical Calculations

(A-F only; Prereq: enrolled in the Pharm.D. program, successful completion of Phar 6700)  
59872 001 LEC, In Person Term Based; 0.7 cr.

### 6742 Colloquium I: Scholarly Presentation Skills

(A-F only; Prereq: Becoming a Pharmacist, Foundations of Social and Administrative Pharmacy, Foundations of Pharmaceutical Care)  
69087 001 LEC, In Person Term Based; Serguei Pakhomov; 0.8 cr.

### 6906 Introduction to Pharmacy Research

(A-F only; Prereq: consent of course director)  
59861 001 LEC, 9:05-9:55 T, , In Person Term Based; Catherine St Hill; 1 cr.

### 6908 Drugs of Abuse

(S-N only; Prereq: Organic chemistry I and Phar 6702)  
59498 001 LEC, 17:45-19:45 W, , In Person Term Based; David Ferguson; 2 cr.

### 6971 Geriatric Pharmacotherapy

(A-F only; Prereq: 3rd or 4th year Pharmacy student)  
49792 001 LEC, 8:00-9:55 T, , In Person Term Based; Michael Swanoski; 2 cr.

### 7004 Early Pharmacy Practice Experience IV

(A-F only; Prereq: 7003 or instr consent, criminal background check, BLS CPR certification, negative

Mantoux test (or explanation of positive test), chicken pox immunity)  
52578 001 FWK, 11:15-12:05 F, In Person Term Based; Meg Little; 0.5 cr.

### 7006 Introductory Institutional-Pharmacy Practice Experience

(S-N only; Prereq: College of Pharmacy student completed 6121, 6122, 6131, 6132, 6173, 6174, 7003 and 7004 with passing grade, registered with Minnesota Board of Pharmacy as intern)  
59873 001 FWK, In Person Term Based; Dawn Carlson; 2.5 cr.

### 7120 Community Practice Experience

(A-F only; Prereq: Pharm.D. IV, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48460 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7122 Acute Patient Care Practice Experience I

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48461 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7123 Ambulatory Patient Care Practice Experience

(A-F only; Prereq: Pharm.D. IV, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48462 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7126 Patient Care Practice Experience

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48463 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7128 Acute Patient Care Practice Experience II

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
49441 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7211 Elective Practice Experience I

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48493 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7212 Elective Practice Experience II

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48497 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7213 Elective Practice Experience III

(A-F only; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
48498 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7214 Elective Practice Experience IV

(A-F only; Prereq: Pharm.D. IV, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
57825 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7217 Elective Practice Experience V

(A-F or Audit; Prereq: Pharm.D. I-III, MN Board of Pharmacy intern, criminal background check, BLS CPR

certification, negative Mantoux test (or explanation of positive test), chicken pox immunity)  
56793 001 FWK, In Person Term Based; Michele Smoody; 4 cr.

### 7320 Early Pharmacy Practice Experience II: Planning and Implementing a Community Health Project

(A-F only; Prereq: Successful completion of EPPE I)  
59874 001 LEC, 8:00- 9:55 T, , In Person Term Based; Meg Little; 1 cr.

### 7340 Early Pharmacy Education with Community Teachers (EPHECT) II

(S-N only; Prereq: Students must have completed or be currently enrolled in the following courses: Becoming a Pharmacist, Foundations of Pharmaceutical Care, Applied Pharmaceutical Care, Pharmaceutical Skills Lab I, II, and III, EPHECT I, and Foundations of SAPH)  
69131 001 FWK, In Person Term Based; Karen Bastianelli; 0.4 cr.

### 7345 Introductory Institutional-Practice Pharmacy Experience

(S-N only; Prereq: Students must have successfully completed Phar 7325 (Community IPPE), Phar 6730 (Professional Development and Assessment II), Phar 6736 (Cardiovascular Pharmacotherapy), Phar 6738 (Pharmacokinetics), Phar 6740 (Pharmaceutical Care Skills III), Phar 6742 (Colloquium I: Scholarly Presentation Skills). Students must be enrolled concurrently in PD2 Spring semester courses. Students must also be registered interns in the state of Minnesota.)  
69135 001 ROT, In Person Term Based; Jeannine Conway; 3 cr.

## Philosophy (PHIL)

### 1001 Introduction to Logic

(Student Option; MATH)  
47082 002 DIS, 9:05- 9:55 M, Blegen Hall 430, In Person Term Based; ; 4 cr.  
47084 004 DIS, 9:05- 9:55 F, Blegen Hall 105, In Person Term Based; ; 4 cr.  
47085 005 DIS, 10:10-11:00 F, Blegen Hall 105, In Person Term Based; ; 4 cr.  
47083 003 DIS, 10:10-11:00 M, Blegen Hall 430, In Person Term Based; ; 4 cr.  
48718 001 LEC, 9:45-11:00 TTh, Anderson Hall 350, In Person Term Based; ; 4 cr.

### 1002W Introduction to Philosophy

(Student Option; AH,WI)  
50486 002 DIS, 8:00- 8:50 T, Blegen Hall 105, In Person Term Based; David Taylor; 4 cr.  
50487 003 DIS, 9:05- 9:55 T, Blegen Hall 430, In Person Term Based; David Taylor; 4 cr.  
50485 001 LEC, 9:05- 9:55 MWF, Anderson Hall 230, In Person Term Based; David Taylor; 4 cr.  
67335 004 DIS, 8:00- 8:50 Th, Blegen Hall 105, In Person Term Based; David Taylor; 4 cr.  
67336 005 DIS, 9:05- 9:55 Th, Blegen Hall 260, In Person Term Based; David Taylor; 4 cr.

### 1004W Introduction to Political Philosophy

(Student Option; AH,WI,CIV)  
58220 003 DIS, 10:10-11:00 W, Blegen Hall 210, In Person Term Based; 4 cr.  
58219 002 DIS, 9:05- 9:55 W, Blegen Hall 215, In Person Term Based; 4 cr.  
58218 001 LEC, 9:45-11:00 MF, Hanson Hall, Room 1-111, In Person Term Based; 4 cr.

### 1006W Philosophy and Cultural Diversity

(Student Option; AH,WI,DSJ)  
57085 003 DIS, 12:20-13:10 M, Blegen Hall 330, In Person Term Based; ; 4 cr.  
57084 002 DIS, 11:15-12:05 M, Blegen Hall 230, In Person Term Based; ; 4 cr.  
51807 001 LEC, 11:15-12:30 WF, Blegen Hall 5, In Person Term Based; ; 4 cr.  
67337 005 DIS, 12:20-13:10 T, Blegen Hall 225, In Person Term Based; ; 4 cr.  
59875 004 DIS, 11:15-12:05 T, Blegen Hall 330, In Person Term Based; ; 4 cr.

### 1905 Topics: Freshman Seminar

(A-F or Audit; Prereq: freshman)  
59880 001 LEC, 13:00-14:15 WF, Blegen Hall 435, In Person Term Based; David Taylor; 3 cr.

### 1910W Topics: Freshman Seminar

(A-F or Audit; Prereq: freshmanWI)  
67354 001 LEC, 13:25-15:55 F, Blegen Hall 430, In Person Term Based; Michael Kac; 3 cr.

### 3005W General History of Western Philosophy: Modern Period

(Student Option; AH,WI)  
52340 002 DIS, 12:20-13:10 T, Blegen Hall 430, In Person Term Based; Peter Hanks; 4 cr.  
52341 003 DIS, 13:25-14:15 T, Blegen Hall 430, In Person Term Based; Peter Hanks; 4 cr.  
52339 001 LEC, 12:20-13:10 MWF, Blegen Hall 150, In Person Term Based; Peter Hanks; 4 cr.

### 3301 Environmental Ethics

(Student Option; ENV)  
58171 A94 LEC, Online & Distance Lrng (ODL); Karen Warren; 4 cr.

### 3302W Moral Problems of Contemporary Society

(Student Option; CIV,WI)  
67338 004 DIS, 9:05- 9:55 Th, Blegen Hall 430, In Person Term Based; 4 cr.  
67339 005 DIS, 10:10-11:00 Th, Blegen Hall 430, In Person Term Based; 4 cr.  
46955 002 DIS, 10:10-11:00 T, Blegen Hall 430, In Person Term Based; ; 4 cr.  
46956 003 DIS, 11:15-12:05 T, Blegen Hall 430, In Person Term Based; ; 4 cr.  
46954 001 LEC, 10:10-11:00 MWF, Anderson Hall 330, In Person Term Based; ; 4 cr.

### 3304 Law and Morality

(Student Option; )  
68275 001 DIS, 12:20-13:10 MWF, Blegen Hall 430, In Person Term Based; 4 cr.

### 3305 Medical Ethics

(Student Option; )  
59024 001 LEC, 18:00-21:00 M, Blegen Hall 150, In Person Term Based; 4 cr.

### 3311W Introduction to Ethical Theory

(Student Option; WI)  
57087 001 LEC, 14:30-15:45 MW, Blegen Hall 430, In Person Term Based; ; 4 cr.

### 3601W Scientific Thought

(Student Option; Prereq: One course in philosophy or natural scienceWI)  
51136 001 LEC, 13:00-14:15 TTh, Blegen Hall 250, In Person Term Based; ; 4 cr.

### 3602 Science, Technology, and Society

(A-F or Audit; )  
67353 001 LEC, 14:30-15:45 TTh, Blegen Hall 260, In Person Term Based; Alan Love; 3 cr.

### 3607 Philosophy of Psychology

(Student Option; Prereq: One course in philosophy or psychology)  
52343 001 LEC, 11:15-12:30 WF, Blegen Hall 250, In Person Term Based; Joseph Owens; 4 cr.

### 3993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
47190 001 IND, In Person Term Based; 1-3 cr.

### 4055 Kant

(Student Option; Prereq: 3005 or 4004 or instr consent)  
67650 001 LEC, 14:30-15:20 MWF, Walter W Heller Hall 731, In Person Term Based; Peter Hanks; 3 cr.

### 4105W Epistemology

(A-F or Audit; Prereq: 1001 or instr consentWI)  
67348 001 LEC, 9:45-11:00 MW, Blegen Hall 105, In Person Term Based; David Taylor; 3 cr.

### 4414 Political Philosophy

(Student Option; Prereq: 1004 or instr consent)  
67351 001 LEC, 13:00-14:15 MW, Blegen Hall 115, In Person Term Based; Sarah Holtman; 3 cr.

### 4993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
47189 001 IND, In Person Term Based; 1-3 cr.

### 5211 Modal Logic

(Student Option; Prereq: 5201 or instr consent)



67349 001 LEC, 11:15-12:30 MW, Walter W Heller Hall 731, In Person Term Based; Roy Cook; 4 cr.  
67350 002 DIS, 11:15-12:05 TTh, Walter W Heller Hall 731, In Person Term Based; Roy Cook; 4 cr.

### 5415 Philosophy of Law

(Student Option; Prereq: 1003 or 1004 or 3302 or social science major or instr consent)  
54070 001 LEC, 10:10-11:05 MWF, Room TBA, In Person Term Based; Meets With: 001 LAW 6615; Brian Bix; 3 cr.

### 5606 Philosophy of Quantum Mechanics

(Student Option; )  
67355 001 LEC, 13:00-14:15 MF, Walter W Heller Hall 830, In Person Term Based; Geoffrey Hellman; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent)  
47191 001 IND, In Person Term Based; 1-3 cr.

### 8010 Workshop in History of Philosophy

(Student Option; Prereq: concurrent registration is required (or allowed) in 4xxx hist of phil course, instr consent)  
59885 001 LEC, In Person Term Based; 1 cr.

### 8100 Workshop in Epistemology and

Metaphysics  
(Student Option; Prereq: concurrent registration is required (or allowed) in 4xxx [epistemology or metaphysics] course, instr consent)  
67357 001 LEC, In Person Term Based; 1 cr.

### 8300 Workshop in Moral and Political

Philosophy  
(Student Option; Prereq: [concurrent registration is required (or allowed) in 4xxx moral phil or 4xxx pol phil] instr consent)  
67356 001 LEC, In Person Term Based; 1 cr.

### 8310 Seminar: Moral Philosophy

(Student Option; Prereq: 4310 or 4320 or 4330 or instr consent)  
58221 001 LEC, 16:00-18:00 T, Walter W Heller Hall 731, In Person Term Based; Valerie Tiberius; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49150 001 IND, In Person Term Based; ; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49242 001 IND, In Person Term Based; 1 cr.

### 8510 Seminar: Aesthetics Studies

(Student Option; )  
67697 001 LEC, 16:00-18:00 W, Walter W Heller Hall 731, In Person Term Based; Naomi Scheman; 3 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49346 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49457 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49553 001 IND, In Person Term Based; 1-24 cr.

### 8993 Directed Study

(Student Option; Prereq: instr consent)  
47246 001 IND, In Person Term Based; ; 1-3 cr.

### 8994 Directed Research

(Student Option; Prereq: instr consent)  
48207 001 IND, In Person Term Based; ; 1-3 cr.

## Physical Education (PE)

### 1007 Beginning Swimming

#### (Student Option No Audit; )

55684 004 LAB, 8:00- 8:50 TTh, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
46497 001 LAB, 8:00- 8:50 MW, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
48633 005 LAB, 9:05- 9:55 TTh, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
46498 002 LAB, 9:05- 9:55 MW, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
59132 007 LAB, 8:00- 9:40 F, Cooke Hall 10, In Person Term Based; Megan Wanke; 1 cr.  
55685 006 LAB, 10:10-11:00 TTh, Cooke Hall 10, In Person Term Based; Megan Wanke; 1 cr.  
59133 008 LAB, 10:10-11:50 F, Cooke Hall 10, In Person Term Based; Megan Wanke; 1 cr.  
55684 004 LAB, 8:00- 8:50 TTh, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
46497 001 LAB, 8:00- 8:50 MW, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
48633 005 LAB, 9:05- 9:55 TTh, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
46498 002 LAB, 9:05- 9:55 MW, Cooke Hall 10, In Person Term Based; Jessica Novotny Couillard; 1 cr.  
55685 006 LAB, 10:10-11:00 TTh, Cooke Hall 10, In Person Term Based; Megan Wanke; 1 cr.

### 1012 Beginning Running

(Student Option No Audit; )  
54431 001 LAB, 8:00- 8:50 MW, Cooke Hall Lobby, In Person Term Based; ; 1 cr.  
55686 002 LAB, 9:05- 9:55 MW, Cooke Hall Lobby, In Person Term Based; Brandi Hoffman; 1 cr.  
59134 003 LAB, 10:10-11:00 MW, Cooke Hall Lobby, In Person Term Based; Lois Hippen; 1 cr.  
54431 001 LAB, 8:00- 8:50 MW, Cooke Hall Lobby, In Person Term Based; ; 1 cr.  
55686 002 LAB, 9:05- 9:55 MW, Cooke Hall Lobby, In Person Term Based; Brandi Hoffman; 1 cr.  
59134 003 LAB, 10:10-11:00 MW, Cooke Hall Lobby, In Person Term Based; Lois Hippen; 1 cr.

### 1014 Conditioning

(Student Option No Audit; )  
59481 008 LAB, 11:15-12:05 TTh, U Of M Field House 50, In Person Term Based; 1 cr.  
59480 007 LAB, 11:15-12:05 MW, U Of M Field House 50, In Person Term Based; 1 cr.  
46499 001 LAB, 8:00- 8:50 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46503 005 LAB, 9:05- 9:55 TTh, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46500 002 LAB, 9:05- 9:55 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46504 006 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46501 003 LAB, 10:10-11:00 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46502 004 LAB, 8:00- 8:50 TTh, U Of M Field House 50, In Person Term Based; Megan Wanke; 1 cr.  
46499 001 LAB, 8:00- 8:50 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46503 005 LAB, 9:05- 9:55 TTh, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46500 002 LAB, 9:05- 9:55 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46504 006 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46501 003 LAB, 10:10-11:00 MW, U Of M Field House 50, In Person Term Based; ; 1 cr.  
46502 004 LAB, 8:00- 8:50 TTh, U Of M Field House 50, In Person Term Based; Megan Wanke; 1 cr.

### 1015 Weight Training

(Student Option No Audit; )  
46508 004 LAB, 8:00- 8:50 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46509 005 LAB, 9:05- 9:55 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46506 002 LAB, 9:05- 9:55 MW, University Rec Center 220, In Person Term Based; ; 1 cr.  
46510 006 LAB, 10:10-11:00 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46507 003 LAB, 10:10-11:00 MW, University Rec Center 220, In Person Term Based; ; 1 cr.  
46505 001 LAB, 8:00- 8:50 MW, University Rec Center 220, In Person Term Based; Greg Stephenson; 1 cr.  
46508 004 LAB, 8:00- 8:50 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46509 005 LAB, 9:05- 9:55 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46506 002 LAB, 9:05- 9:55 MW, University Rec Center 220, In Person Term Based; ; 1 cr.  
46510 006 LAB, 10:10-11:00 TTh, University Rec Center 220, In Person Term Based; ; 1 cr.  
46507 003 LAB, 10:10-11:00 MW, University Rec Center 220, In Person Term Based; ; 1 cr.

46505 001 LAB, 8:00- 8:50 MW, University Rec Center 220, In Person Term Based; Greg Stephenson; 1 cr.

### 1029 Handball

(Student Option No Audit; )  
46488 001 LAB, 8:00- 8:50 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
51610 002 LAB, 9:05- 9:55 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
52775 003 LAB, 10:10-11:00 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
53943 004 LAB, 11:15-12:05 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
46488 001 LAB, 8:00- 8:50 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
51610 002 LAB, 9:05- 9:55 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
52775 003 LAB, 10:10-11:00 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.  
53943 004 LAB, 11:15-12:05 MW, University Rec Center 145, In Person Term Based; Matthew Hiber; 1 cr.

### 1031 Sabre Fencing

(Student Option No Audit; )  
59488 001 LAB, 10:10-11:00 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro; 1 cr.

### 1033 Foil Fencing

(Student Option No Audit; )  
59489 001 LAB, 9:05- 9:55 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro; 1 cr.

### 1034 Judo

(Student Option No Audit; )  
46489 001 LAB, 8:30- 9:20 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.  
46490 002 LAB, 9:35-10:25 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.  
53802 003 LAB, 10:40-11:30 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.  
53802 003 LAB, 10:40-11:30 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.  
46489 001 LAB, 8:30- 9:20 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.  
46490 002 LAB, 9:35-10:25 TTh, Gymnasium 130, In Person Term Based; Thomas Crone; 1 cr.

### 1035 Karate

(Student Option No Audit; )  
54343 004 LAB, 19:00-20:40 T, Gymnasium 200, In Person Term Based; Robert Fusaro; 1 cr.  
46491 001 LAB, 9:05- 9:55 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
48634 003 LAB, 11:15-12:05 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
46492 002 LAB, 10:10-11:00 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
54343 004 LAB, 19:00-20:40 T, Gymnasium 200, In Person Term Based; Robert Fusaro; 1 cr.  
46491 001 LAB, 9:05- 9:55 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
48634 003 LAB, 11:15-12:05 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
46492 002 LAB, 10:10-11:00 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
46491 001 LAB, 9:05- 9:55 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
48634 003 LAB, 11:15-12:05 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
46492 002 LAB, 10:10-11:00 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.

### 1036 Racquetball

(Student Option No Audit; )  
48635 001 LAB, 8:00- 8:50 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
55687 006 LAB, 8:00- 9:35 F, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
54344 002 LAB, 9:05- 9:55 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
54345 003 LAB, 10:10-11:00 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
59135 007 LAB, 10:10-11:45 F, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
54346 004 LAB, 13:25-14:15 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman; 1 cr.  
54347 005 LAB, 14:30-15:20 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman; 1 cr.  
48635 001 LAB, 8:00- 8:50 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
55687 006 LAB, 8:00- 9:35 F, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
54344 002 LAB, 9:05- 9:55 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.

54345 003 LAB, 10:10-11:00 TTh, University Rec Center 145, In Person Term Based; Brian Phillips; 1 cr.  
 54346 004 LAB, 13:25-14:15 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman; 1 cr.  
 54347 005 LAB, 14:30-15:20 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman; 1 cr.

### 1037 Squash Racquets

**(Student Option No Audit; )**  
 53795 002 LAB, 10:10-11:00 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.  
 59136 004 LAB, 10:10-11:45 F, University Rec Center 143, In Person Term Based; John Stever; 1 cr.  
 54348 003 LAB, 11:15-12:05 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.  
 53795 002 LAB, 10:10-11:00 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.  
 54348 003 LAB, 11:15-12:05 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.

### 1038 Beginning Tennis

**(Student Option No Audit; )**  
 55688 001 LAB, 8:00- 8:50 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46513 002 LAB, 9:05- 9:55 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46514 003 LAB, 10:10-11:00 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46515 004 LAB, 11:15-12:05 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46516 005 LAB, 8:00- 8:50 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 46517 006 LAB, 9:05- 9:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 54349 007 LAB, 10:10-11:00 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 54350 008 LAB, 11:15-12:05 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 55688 001 LAB, 8:00- 8:50 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46513 002 LAB, 9:05- 9:55 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46514 003 LAB, 10:10-11:00 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46515 004 LAB, 11:15-12:05 MW, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl; 1 cr.  
 46516 005 LAB, 8:00- 8:50 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 46517 006 LAB, 9:05- 9:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 54349 007 LAB, 10:10-11:00 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.  
 54350 008 LAB, 11:15-12:05 TTh, Ridder Arena/Baseline 106, In Person Term Based; John Sanny; 1 cr.

### 1044 Self-Defense

**(Student Option No Audit; )**  
 46493 001 LAB, 8:00- 8:50 MW, University Rec Center 320, In Person Term Based; Anita Bendickson; 1 cr.  
 46494 002 LAB, 9:05- 9:55 MW, University Rec Center 320, In Person Term Based; Anita Bendickson; 1 cr.  
 61223 007 LAB, 7:00- 8:40 W, Gymnasium 130, In Person Term Based; Mary Brandl; 1 cr.  
 54351 005 LAB, 9:05- 9:55 TTh, University Rec Center 320, In Person Term Based; Mary Brandl; 1 cr.  
 59137 006 LAB, 10:10-11:00 TTh, University Rec Center 320, In Person Term Based; Mary Brandl; 1 cr.  
 48636 003 LAB, 10:10-11:00 MW, University Rec Center 320, In Person Term Based; Mary Brandl; 1 cr.  
 53897 004 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Mary Brandl; 1 cr.  
 53897 004 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Mary Brandl; 1 cr.

### 1045 Rock Climbing

**(Student Option No Audit; Prereq: Good general health, no [neck or back] problems)**  
 56749 001 LAB, 13:25-15:05 M, Gymnasium 110, In Person Term Based; ; 1 cr.  
 59165 006 LAB, 9:05-10:45 Th, Gymnasium 110, In Person Term Based; Bryan Karban; 1 cr.  
 56752 004 LAB, 8:00- 9:40 W, , In Person Term Based; Bryan Karban; 1 cr.  
 59160 005 LAB, 10:10-11:50 W, , In Person Term Based; Bryan Karban; 1 cr.  
 56750 002 LAB, 9:05-10:45 T, Gymnasium 110, In Person Term Based; Jennifer Stewart; 1 cr.  
 56751 003 LAB, 11:15-12:55 T, Gymnasium 110, In Person Term Based; Jennifer Stewart; 1 cr.

### 1046 Tae Kwon Do

**(Student Option No Audit; )**  
 50123 001 LEC, 10:10-11:00 TTh, Cooke Hall 325, In Person Term Based; ; 1 cr.  
 50124 002 LEC, 11:15-12:05 TTh, Cooke Hall 325, In Person Term Based; ; 1 cr.

50123 001 LEC, 10:10-11:00 TTh, Cooke Hall 325, In Person Term Based; ; 1 cr.  
 50124 002 LEC, 11:15-12:05 TTh, Cooke Hall 325, In Person Term Based; ; 1 cr.

### 1048 Bowling

**(Student Option No Audit; )**  
 56711 012 LAB, 8:00- 9:40 F, Coffman Memorial Union B3, In Person Term Based; ; 1 cr.  
 54354 007 LAB, 8:00- 8:50 TTh, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 46511 001 LAB, 8:00- 8:50 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55690 009 LAB, 8:00- 9:40 F, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55689 008 LAB, 9:05- 9:55 TTh, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53803 002 LAB, 9:05- 9:55 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53804 003 LAB, 10:10-11:00 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55691 010 LAB, 10:10-11:50 F, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53878 004 LAB, 11:15-12:05 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53879 005 LAB, 12:20-13:10 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 56712 011 LAB, 12:20-14:00 F, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 54353 006 LAB, 13:25-14:15 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 54354 007 LAB, 8:00- 8:50 TTh, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 46511 001 LAB, 8:00- 8:50 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55690 009 LAB, 8:00- 9:40 F, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55689 008 LAB, 9:05- 9:55 TTh, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53803 002 LAB, 9:05- 9:55 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53804 003 LAB, 10:10-11:00 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 55691 010 LAB, 10:10-11:50 F, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53878 004 LAB, 11:15-12:05 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 53879 005 LAB, 12:20-13:10 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.  
 54353 006 LAB, 13:25-14:15 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid; 1 cr.

### 1053 Ice Skating

**(Student Option No Audit; )**  
 55692 001 LAB, 8:00- 8:50 MW, Mariucci Arena 50, In Person Term Based; Kristina Anderson; 1 cr.  
 57023 002 LAB, 9:05- 9:55 MW, Mariucci Arena 50, In Person Term Based; Kristina Anderson; 1 cr.  
 59138 003 LAB, 10:10-11:00 MW, Mariucci Arena 50, In Person Term Based; Kristina Anderson; 1 cr.

### 1057 Beginning Skiing

**(Student Option No Audit; )**  
 46794 002 LAB, 17:00-21:00 T, Room TBA, 17:00-17:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 46793 001 LAB, 17:00-21:00 T, Room TBA, 17:00-17:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 46794 002 LAB, 17:00-21:00 T, Room TBA, 17:00-17:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 46793 001 LAB, 17:00-21:00 T, Room TBA, 17:00-17:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.

### 1058 Snowboarding

**(Student Option No Audit; Prereq: Good general health, injury free)**  
 49772 001 LAB, 16:00-20:00 T, Room TBA, 16:00-16:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 49773 002 LAB, 16:00-20:00 Th, Room TBA, 16:00-16:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 49772 001 LAB, 16:00-20:00 T, Room TBA, 16:00-16:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.  
 49773 002 LAB, 16:00-20:00 Th, Room TBA, 16:00-16:50 T, Cooke Hall Lobby, In Person Term Based; Glen Peterson; 1 cr.

### 1065 Beginning Tumbling and Gymnastics

**(Student Option No Audit; )**  
 56725 001 LAB, In Person Term Based; 1 cr.

### 1067 Basketball

**(Student Option No Audit; )**  
 59485 004 LAB, 8:00- 8:50 TTh, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 59486 005 LAB, 9:05- 9:55 TTh, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 54357 002 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 59487 006 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 46512 001 LAB, 10:10-11:00 MW, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 59484 003 LAB, 10:10-11:00 MW, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 54357 002 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.  
 46512 001 LAB, 10:10-11:00 MW, U Of M Field House 50, In Person Term Based; Christopher Hopkins; 1 cr.

### 1071 Beginning Cricket

**(Student Option No Audit; )**  
 52552 001 LAB, 8:00- 9:35 F, U Of M Field House 50, In Person Term Based; Charles Peterson; 1 cr.  
 52552 001 LAB, 8:00- 9:35 F, U Of M Field House 50, In Person Term Based; Charles Peterson; 1 cr.

### 1072 Soccer

**(Student Option No Audit; )**  
 55704 005 LAB, 8:00- 9:40 MW, , In Person Term Based; ; 1 cr.  
 55701 002 LAB, 10:10-11:00 MW, , In Person Term Based; ; 1 cr.  
 59139 006 LAB, 10:10-11:50 MW, , In Person Term Based; ; 1 cr.  
 55702 003 LAB, 9:05-10:45 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 59140 007 LAB, 9:05-10:45 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 55703 004 LAB, 11:15-12:55 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 59141 008 LAB, 11:15-12:55 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 55704 005 LAB, 8:00- 9:40 MW, , In Person Term Based; ; 1 cr.  
 55701 002 LAB, 10:10-11:00 MW, , In Person Term Based; ; 1 cr.  
 55702 003 LAB, 9:05-10:45 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 55703 004 LAB, 11:15-12:55 TTh, , In Person Term Based; Viktor Adamcsek; 1 cr.  
 55701 002 LAB, 10:10-11:00 MW, , In Person Term Based; ; 1 cr.  
 46634 001 LAB, 8:00- 9:40 MW, , In Person Term Based; ; 1 cr.  
 46634 001 LAB, 8:00- 9:40 MW, , In Person Term Based; ; 1 cr.  
 46634 001 LAB, 8:00- 9:40 MW, , In Person Term Based; ; 1 cr.

### 1074 Beginning Volleyball

**(Student Option No Audit; )**  
 48637 003 LAB, 10:10-11:45 F, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.  
 61219 001 LAB, 13:25-15:05 T, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.  
 48637 003 LAB, 10:10-11:45 F, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.  
 61219 001 LAB, 13:25-15:05 T, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.

### 1076 Flag Football

**(Student Option No Audit; )**  
 56736 001 LAB, 8:00- 9:40 MW, , In Person Term Based; Jaime Medina; 1 cr.  
 59147 004 LAB, 10:10-11:50 TTh, , In Person Term Based; Jaime Medina; 1 cr.  
 59145 002 LAB, 10:10-11:50 MW, , In Person Term Based; Jaime Medina; 1 cr.  
 59146 003 LAB, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Jaime Medina; 1 cr.

### 1078 Ultimate Disc

**(Student Option No Audit; )**  
 57025 002 LAB, 8:00- 9:40 MW, , In Person Term Based; Gregory Williams; 1 cr.  
 56737 001 LAB, 8:00- 9:40 TTh, Room TBA, In Person Term Based; Gregory Williams; 1 cr.

### 1135 Intermediate Karate

**(Student Option No Audit; Prereq: 1035 or equiv or instr consent)**  
 46518 001 LAB, 8:00- 8:50 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.  
 46518 001 LAB, 8:00- 8:50 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.

46518 001 LAB, 8:00- 8:50 MW, Cooke Hall 325, In Person Term Based; Robert Fusaro; 1 cr.

### 1137 Intermediate Squash

(Student Option No Audit; Prereq: 1037 or instr consent)

61220 001 LAB, 9:05- 9:55 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.  
61220 001 LAB, 9:05- 9:55 MW, University Rec Center 143, In Person Term Based; John Stever; 1 cr.

### 1174 Intermediate Volleyball

(Student Option No Audit; Prereq: [1074 or equiv], instr consent)

56830 001 LAB, 13:25-15:05 Th, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.  
56830 001 LAB, 13:25-15:05 Th, Cooke Hall 325, In Person Term Based; Kori Shingles; 1 cr.

### 1205 Scuba and Skin Diving

(Student Option No Audit; Prereq: Ability to swim 400 yds comfortably or instr consent)

46496 002 LAB, 10:10-12:05 TTh, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
49663 005 LAB, 10:10-12:05 TTh, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
48638 003 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
61221 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
46495 001 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
48639 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
46496 002 LAB, 10:10-12:05 TTh, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
49663 005 LAB, 10:10-12:05 TTh, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
48639 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
48638 003 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
61221 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.  
46495 001 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl; 1 cr.

### 1262 Marathon Training

(Student Option No Audit; Prereq: No pre-existing medical condition that would prevent finishing a marathon, instr consent)

60982 001 LAB, 7:30- 9:30 Su, Cooke Hall Lobby, 9:05- 9:55 MW, , In Person Term Based; Stacy Ingraham; 3 cr.  
60983 002 LAB, 7:30- 9:30 Su, Cooke Hall Lobby, 10:10-11:00 MW, , In Person Term Based; Stacy Ingraham; 3 cr.

## Physical Med & Rehabilitation (PMed)

### 7410 Rehabilitation Medicine for Adults

(H-N or Audit; Prereq: Med 7500 or Neur 7510)

49978 001 FWK, In Person Term Based; Patricia Olsen; 2-6 cr.

### 7411 Rehabilitation Medicine: Ambulatory Care

(H-N or Audit; Prereq: enrolled med sr)

50013 001 FWK, In Person Term Based; Patricia Olsen; 2-6 cr.

### 7412 Rehabilitation Medicine for Adults - VA Medical Center

(H-N or Audit; )

51713 001 FWK, In Person Term Based; Patricia Olsen; 3-6 cr.

### 7415 Physical Medicine and Rehabilitation for the Generalist

(H-N or Audit; )

50014 001 LEC, In Person Term Based; Patricia Olsen; 4-6 cr.

### 7416 Pediatric Rehab Medicine at Gillette Children's Hospital

(H-N or Audit; )

49979 001 FWK, In Person Term Based; Patricia Olsen; 3-6 cr.

### 7417 Research in Physical Medicine and Rehabilitation

(H-N or Audit; )

52782 001 IND, In Person Term Based; Patricia Olsen; 6 cr.

### 7418 Rehab Medicine at Hennepin County Medical Center

(H-N or Audit; )

49977 001 FWK, In Person Term Based; Patricia Olsen; 2-6 cr.

### 7910 Physical Medicine and Rehabilitation Medical Residency

(No Grade Associated; )

56693 001 FWK, In Person Term Based; 6 cr.

### 7930 Physical Medicine and Rehabilitation Medical Fellowship

(No Grade Associated; )

56694 001 FWK, In Person Term Based; 6 cr.

### 8200 Physical Medicine and Rehabilitation Service

(Student Option; Prereq: enrolled in PMed residency training program)

49948 001 LEC, In Person Term Based; 1-15 cr.

### 8207 Basic and Applied Psychiatry

(Student Option; Prereq: enrolled in PMed residency training program)

49947 001 LEC, In Person Term Based; 1 cr.

### 8212 Electromyography

(Student Option; Prereq: enrolled in PMed residency training program)

49949 001 LEC, In Person Term Based; 1-15 cr.

### 8214 Readings in Electromyography

(Student Option; Prereq: enrolled in PMed residency training program)

49950 001 LEC, In Person Term Based; 1-3 cr.

### 8220 Seminar: Physical Medicine and Rehabilitation

(Student Option; Prereq: enrolled in PMed residency training program)

49951 001 LEC, In Person Term Based; 1-15 cr.

## Physical Therapy (PT)

### 1002 Orientation to Physical Therapy

(S-N or Audit; )

47918 002 LEC, 13:25-14:15 T, , In Person Term Based; Elizabeth Goebel; 1 cr.

### 6214 Clerkship II

(A-F or Audit; Prereq: Registered first year PT student)

51044 002 LAB, 13:30-16:30 TTh, , In Person Term Based; Elizabeth Goebel; 2 cr.  
51030 001 LEC, 8:30- 9:55 M, Children's Rehab Ctr R555, In Person Term Based; Elizabeth Goebel; 2 cr.

### 6216 Clerkship IV

(A-F or Audit; Prereq: Registered 2nd yr PT student)

57391 002 LEC, In Person Term Based; 1 cr.  
51175 001 LEC, 8:00- 9:55 T, Children's Rehab Ctr R555, 13:25-17:00 MW, , In Person Term Based; Becky Olson-Kellogg; 1 cr.

### 6220 Clinic Volunteer

(No Grade Associated; )

51606 001 FWK, In Person Term Based; Elizabeth Goebel; 1 cr.

### 6221 Therapeutic Procedures

(A-F or Audit; Prereq: Registered PT student)

51025 001 LEC, 8:00- 9:55 TW, , 8:00- 9:55 Th, Children's Rehab Ctr R555, In Person Term Based; Elizabeth Goebel; 4 cr.

### 6282 Scientific Foundations II: Neuromotor Control

(A-F or Audit; Prereq: Registered PT student)

51176 001 LEC, 13:25-14:55 TTh, , In Person Term Based; Meets With: 001 RSC 8282; Teresa Kimberley, PT,; 3 cr.

### 6284 Musculoskeletal Rehabilitation II

(A-F or Audit; Prereq: Regis PT student)

59595 001 LEC, 10:10-12:05 W, , 8:00- 9:55 MTHF, , In Person Term Based; Kathleen Anderson; 4 cr.

### 6287 Neurorehabilitation

(A-F or Audit; Prereq: Regis PT student)

51177 001 LEC, 8:00- 9:55 W, Children's Rehab Ctr R555, 10:10-12:05 MTThF, Children's Rehab Ctr R555, In Person Term Based; Elizabeth Goebel; 8 cr.

### 6297 Clinical Internship III

(S-N only; Prereq: Registered PT student)

52788 001 FWK, In Person Term Based; 10 cr.

### 6298 Clinical Internship IV

(S-N only; )

52789 001 FWK, In Person Term Based; 10 cr.

### 7001 Topics in Musculoskeletal PT

(A-F only; Prereq Admitted in transitional doctor of physical therapy program.)

53210 001 LEC, In Person Term Based; Kathleen Anderson; 1-6 cr.

### 7003 Topics in Integumentary Physical Therapy

(A-F only; Prereq Admitted in transitional doctor of physical therapy program.)

53211 001 LEC, In Person Term Based; Pamela Cole; 2 cr.

### 7005 Topics in Pediatric Physical Therapy

(A-F only; Prereq Admitted in transitional doctor of physical therapy program.)

53212 001 LEC, In Person Term Based; James Carey; 1 cr.

### 7011 Topics in Geriatric Rehabilitation II

(S-N only; Prereq: Licensed physical therapist enrolled in geriatric clinical residency)

56636 001 LEC, In Person Term Based; Becky Olson-Kellogg; 2 cr.

### 8132 Research Seminar II

(A-F or Audit; Prereq: 8131, grad PT major)

54987 009 LEC, In Person Term Based; Ann Van de Winkel; 1 cr.  
51026 001 LEC, In Person Term Based; James Carey; 1 cr.  
51027 002 LEC, In Person Term Based; James Carey; 1 cr.  
51029 004 LEC, In Person Term Based; LaDora Thompson; 1 cr.  
53628 008 LEC, In Person Term Based; LeAnn Snow; 1 cr.  
51028 003 LEC, In Person Term Based; Paula Ludewig; 1 cr.  
51428 005 LEC, In Person Term Based; Ward Glasoe; 1 cr.  
61142 010 LEC, In Person Term Based; Wynn Legon; 1 cr.  
52595 007 LEC, In Person Term Based; Elizabeth Goebel; 1 cr.  
51429 006 LEC, In Person Term Based; Ling Zhong; 1 cr.

### 8193 Research Problems in Physical Therapy

(A-F or Audit; Prereq: Grad PT major)

54990 009 IND, In Person Term Based; 1-7 cr.  
52577 006 IND, In Person Term Based; Bernadette Gillick; 1-7 cr.  
53376 007 IND, In Person Term Based; Dawn Lowe; 1-7 cr.  
51178 001 IND, In Person Term Based; James Carey; 1-7 cr.  
51181 004 IND, In Person Term Based; LaDora Thompson; 1-7 cr.  
51179 002 IND, In Person Term Based; Linda Koehler; 1-7 cr.  
52576 005 IND, In Person Term Based; Ling Zhong; 1-7 cr.  
54359 008 IND, In Person Term Based; Ling Zhong; 1-7 cr.  
51180 003 IND, In Person Term Based; Paula Ludewig; 1-7 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49156 001 IND, In Person Term Based; 1 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49462 001 IND, In Person Term Based; 1-18 cr.

## Physics (PHYS)

### 1001W Energy and the Environment

(Student Option; Prereq: 1 yr high school algebra/ENV,WI,PHYS)

68578 109 LAB, 12:20-14:15 T, Room TBA, In Person Term Based; 4 cr.  
46263 108 LAB, 10:10-12:05 T, Room TBA, In Person Term Based; 4 cr.  
46258 102 LAB, 12:20-14:15 T, Room TBA, In Person Term Based; Jennifer Kroschel; 4 cr.  
46256 100 LEC, 13:25-14:15 MWF, Anderson Hall 210, In Person Term Based; Jennifer Kroschel; 4 cr.

46260 105 LAB, 16:40-18:35 M, Room TBA, In Person Term Based; ; 4 cr.  
 46262 107 LAB, 8:00- 9:55 T, Room TBA, In Person Term Based; ; 4 cr.  
 46257 101 LAB, 10:10-12:05 T, Room TBA, In Person Term Based; ; 4 cr.  
 46264 104 LAB, 10:10-12:05 M, Room TBA, In Person Term Based; ; 4 cr.  
 46261 106 LAB, 18:50-20:45 M, Room TBA, In Person Term Based; ; 4 cr.  
 46259 103 LAB, 8:00- 9:55 M, Room TBA, In Person Term Based; Jennifer Kroschel; 4 cr.

### 1011 Physical World

(A-F or Audit; Prereq: 1 yr high school algebra)

50415 B01 IND, Online & Distance Lrng (ODL); Robert Cassola; 3 cr.  
 50416 C01 IND, Online & Distance Lrng (ODL); Robert Cassola; 3 cr.  
 48660 D01 IND, Online & Distance Lrng (ODL); Robert Cassola; 3 cr.  
 48661 E01 IND, Online & Distance Lrng (ODL); Robert Cassola; 3 cr.

### 1101W Introductory College Physics I

(Student Option; Prereq: High school algebra, plane geometry, trigonometry; primarily for students interested in technical areasPHYS,WI)

50340 134 DIS, 15:35-16:25 Th, Folwell Hall 30, In Person Term Based; 4 cr.  
 50312 132 DIS, 15:35-16:25 Th, Vincent Hall 301, In Person Term Based; 4 cr.  
 46272 107 DIS, 14:30-15:20 Th, Civil Engineering Bldg 213, In Person Term Based; 4 cr.  
 46282 126 DIS, 15:35-16:25 Th, Civil Engineering Bldg 213, In Person Term Based; 4 cr.  
 50101 113 DIS, 14:30-15:20 Th, Folwell Hall 5, In Person Term Based; 4 cr.  
 46276 111 DIS, 14:30-15:20 Th, Folwell Hall 30, In Person Term Based; 4 cr.  
 46280 122 DIS, 15:35-16:25 Th, Kolthoff Hall 135, In Person Term Based; 4 cr.  
 46286 130 DIS, 15:35-16:25 Th, Nicholson Hall 115, In Person Term Based; 4 cr.  
 46268 103 DIS, 14:30-15:20 Th, Vincent Hall 206, In Person Term Based; 4 cr.  
 46270 105 DIS, 14:30-15:20 Th, Vincent Hall 209, In Person Term Based; 4 cr.  
 46266 101 DIS, 14:30-15:20 Th, Vincent Hall 213, In Person Term Based; 4 cr.  
 46278 120 DIS, 15:35-16:25 Th, Vincent Hall 313, In Person Term Based; 4 cr.  
 46274 109 DIS, 14:30-15:20 Th, Vincent Hall 364, In Person Term Based; 4 cr.  
 46284 128 DIS, 15:35-16:25 Th, Vincent Hall 364, In Person Term Based; ; 4 cr.  
 46269 104 LAB, 10:10-12:05 M, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46287 131 LAB, 10:10-12:05 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 50102 114 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46265 100 LEC, 13:25-14:15 MWF, Willey Hall 125, In Person Term Based; Jennifer Kroschel; 4 cr.  
 50313 133 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 50341 135 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46285 129 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46275 110 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46267 102 LAB, 8:00- 9:55 M, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46277 112 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46279 121 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46281 123 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46271 106 LAB, 16:40-18:35 M, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46283 127 LAB, 18:50-20:45 T, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46273 108 LAB, 18:50-20:45 M, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.

### 1102W Introductory College Physics II

(Student Option; Prereq: 1101W or 1107PHYS,WI)

46299 126 DIS, 14:30-15:20 Th, Bruininks Hall 144, In Person Term Based; 4 cr.  
 48849 109 DIS, 13:25-14:15 Th, Amundson Hall 104, In Person Term Based; 4 cr.  
 46295 122 DIS, 14:30-15:20 Th, Amundson Hall 116, In Person Term Based; 4 cr.  
 46293 120 DIS, 14:30-15:20 Th, Folwell Hall 4, In Person Term Based; 4 cr.

46289 101 DIS, 13:25-14:15 Th, Ford Hall B60, In Person Term Based; 4 cr.  
 46291 103 DIS, 13:25-14:15 Th, Smith Hall 111, In Person Term Based; 4 cr.  
 46297 124 DIS, 14:30-15:20 Th, Vincent Hall 207, In Person Term Based; 4 cr.  
 56298 111 DIS, 13:25-14:15 Th, Vincent Hall 313, In Person Term Based; 4 cr.  
 46298 125 LAB, 8:00- 9:55 F, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 56299 112 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46288 100 LEC, 17:45-19:15 TTh, Anderson Hall 210, In Person Term Based; Jennifer Kroschel; 4 cr.  
 46300 127 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46294 121 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46296 123 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46290 102 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 46292 104 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.  
 48850 110 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.

### 1108 Introductory Physics Online II

(Student Option; Prereq: 1101W or 1107; primarily for students interested in technical areas)

54326 A94 IND, Online & Distance Lrng (ODL); Pete Border; 4 cr.

### 1201W Introductory Physics for Biology and Pre-medicine I

(Student Option; Prereq: [High school or college calculus], trigonometry, algebraPHYS,WI)

51219 101 DIS, 13:25-14:15 Th, Amundson Hall 124, In Person Term Based; 5 cr.  
 51221 105 DIS, 13:25-14:15 Th, Rapson Hall 58, In Person Term Based; 5 cr.  
 51220 103 DIS, 13:25-14:15 Th, Ford Hall 115, In Person Term Based; 5 cr.  
 51232 134 DIS, 14:30-15:20 Th, Blegen Hall 140, In Person Term Based; 5 cr.  
 51225 113 DIS, 13:25-14:15 Th, Blegen Hall 205, In Person Term Based; 5 cr.  
 51230 128 DIS, 14:30-15:20 Th, Blegen Hall 220, In Person Term Based; 5 cr.  
 51231 132 DIS, 14:30-15:20 Th, Blegen Hall 240, In Person Term Based; 5 cr.  
 51222 107 DIS, 13:25-14:15 Th, Blegen Hall 115, In Person Term Based; 5 cr.  
 51227 122 DIS, 14:30-15:20 Th, Blegen Hall 145, In Person Term Based; 5 cr.  
 51226 115 DIS, 13:25-14:15 Th, Blegen Hall 225, In Person Term Based; 5 cr.  
 51228 124 DIS, 14:30-15:20 Th, Blegen Hall 230, In Person Term Based; 5 cr.  
 51223 109 DIS, 13:25-14:15 Th, Blegen Hall 240, In Person Term Based; 5 cr.  
 51224 111 DIS, 13:25-14:15 Th, Blegen Hall 260, In Person Term Based; 5 cr.  
 51229 126 DIS, 14:30-15:20 Th, Nicholson Hall 345, In Person Term Based; 5 cr.  
 56948 137 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 56947 136 DIS, 14:30-15:20 Th, Blegen Hall 215, In Person Term Based; 5 cr.  
 50760 135 LAB, 18:50-20:45 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50106 106 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50103 100 LEC, 14:30-15:20 MTWF, Willey Hall 125, In Person Term Based; Jennifer Kroschel; 5 cr.  
 50539 129 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50110 114 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50759 133 LAB, 16:40-18:35 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50538 127 LAB, 8:00- 9:55 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50104 102 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50109 112 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50105 104 LAB, 10:10-12:05 W, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50111 116 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50285 123 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50537 125 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 50107 108 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.

50108 110 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.

### 1202W Introductory Physics for Biology and Pre-medicine II

(Student Option; Prereq: 1201WPHYS,WI)

68616 211 DIS, In Person Term Based; 5 cr.  
 68614 213 DIS, In Person Term Based; 5 cr.  
 68615 212 LAB, In Person Term Based; 5 cr.  
 68613 214 LAB, In Person Term Based; 5 cr.  
 51235 109 DIS, 10:10-11:00 Th, Folwell Hall 32, In Person Term Based; 5 cr.  
 68620 240 DIS, 13:25-14:15 Th, Bruininks Hall 420A, In Person Term Based; 5 cr.  
 68610 144 DIS, 11:15-12:05 Th, Bruininks Hall 512B, In Person Term Based; 5 cr.  
 51738 230 DIS, 13:25-14:15 Th, Akerman Hall 225, In Person Term Based; 5 cr.  
 51742 234 DIS, 13:25-14:15 Th, Akerman Hall 319, In Person Term Based; 5 cr.  
 51736 209 DIS, 12:20-13:10 Th, Amundson Hall 124, In Person Term Based; 5 cr.  
 52906 140 DIS, 11:15-12:05 Th, Appleby Hall 319, In Person Term Based; 5 cr.  
 51734 207 DIS, 12:20-13:10 Th, Folwell Hall 108, In Person Term Based; 5 cr.  
 51237 132 DIS, 11:15-12:05 Th, Ford Hall 110, In Person Term Based; 5 cr.  
 51234 105 DIS, 10:10-11:00 Th, Ford Hall 127, In Person Term Based; 5 cr.  
 52903 113 DIS, 10:10-11:00 Th, Ford Hall 130, In Person Term Based; 5 cr.  
 51730 201 DIS, 12:20-13:10 Th, Ford Hall B60, In Person Term Based; 5 cr.  
 51233 101 DIS, 10:10-11:00 Th, Bruininks Hall 119, In Person Term Based; 5 cr.  
 68622 236 DIS, 13:25-14:15 Th, Bruininks Hall 131A, In Person Term Based; 5 cr.  
 52767 111 DIS, 10:10-11:00 Th, Vincent Hall 2, In Person Term Based; 5 cr.  
 51732 203 DIS, 12:20-13:10 Th, Vincent Hall 2, In Person Term Based; 5 cr.  
 51740 232 DIS, 13:25-14:15 Th, Vincent Hall 20, In Person Term Based; 5 cr.  
 51238 136 DIS, 11:15-12:05 Th, Vincent Hall 209, In Person Term Based; 5 cr.  
 51236 130 DIS, 11:15-12:05 Th, Vincent Hall 313, In Person Term Based; 5 cr.  
 68612 142 DIS, 11:15-12:05 Th, Vincent Hall 364, In Person Term Based; 5 cr.  
 68618 238 DIS, 13:25-14:15 Th, Blegen Hall 230, In Person Term Based; 5 cr.  
 58689 324 DIS, 15:35-16:25 Th, Cooke Hall 206, In Person Term Based; 5 cr.  
 58683 305 DIS, 14:30-15:20 Th, Cooke Hall 214, In Person Term Based; 5 cr.  
 58691 326 DIS, 15:35-16:25 Th, Cooke Hall 214, In Person Term Based; 5 cr.  
 58687 322 DIS, 15:35-16:25 Th, Folwell Hall 4, In Person Term Based; 5 cr.  
 58685 320 DIS, 15:35-16:25 Th, Folwell Hall 104, In Person Term Based; 5 cr.  
 68609 145 LAB, 12:20-14:15 F, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 68621 241 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 68611 143 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 68619 239 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 68617 237 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 58681 303 DIS, 14:30-15:20 Th, Hubert H. Humphrey Center 15, In Person Term Based; 5 cr.  
 58679 301 DIS, 14:30-15:20 Th, Hubert H. Humphrey Center 60, In Person Term Based; 5 cr.  
 51739 231 LAB, 8:00- 9:55 F, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 51731 202 LAB, 8:00- 9:55 M, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 52907 141 LAB, 12:20-13:10 W, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 52904 114 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; ; 5 cr.  
 58692 327 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.  
 58688 323 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.  
 58682 304 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.  
 58680 302 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.  
 58686 321 LAB, 15:35-17:30 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.  
 58690 325 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.

58684 306 LAB, 8:00- 9:55 W, No Room Required, In Person Term Based; Annie Bartels; 5 cr.  
 58678 300 LEC, 14:30-15:20 MTWF, Anderson Hall 210, In Person Term Based; Annie Bartels; 5 cr.  
 51729 200 LEC, 12:20-13:10 MTWF, Willey Hall 125, In Person Term Based; 5 cr.  
 46301 100 LEC, 10:10-11:00 MTWF, Willey Hall 125, In Person Term Based; Annie Bartels; 5 cr.  
 46304 110 LAB, 18:50-20:45 M, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 51737 210 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 46306 133 LAB, 12:20-14:15 M, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 51735 208 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 51733 204 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 46307 137 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 51743 235 LAB, 14:30-16:25 F, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 51741 233 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 52768 112 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 46302 102 LAB, 14:30-16:25 M, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 46303 106 LAB, 16:40-18:35 M, ADCS Computer Lab TBA, In Person Term Based; 5 cr.  
 46305 131 LAB, 18:50-20:45 T, ADCS Computer Lab TBA, In Person Term Based; 5 cr.

### 1301W Introductory Physics for Science and Engineering I

**(Student Option; Prereq: concurrent registration is required (or allowed) in Math 1271 or concurrent registration is required (or allowed) in Math 1371 or concurrent registration is required (or allowed) in Math 1571PHYS,WI)**

68633 119 DIS, 8:00- 8:50 Th, Bruininks Hal 121, In Person Term Based; 4 cr.  
 68645 148 DIS, 9:05- 9:55 Th, Bruininks Hall 123, In Person Term Based; 4 cr.  
 68637 140 DIS, 9:05- 9:55 Th, Bruininks Hall 512A, In Person Term Based; 4 cr.  
 46317 109 DIS, 8:00- 8:50 Th, Akerman Hall 227, In Person Term Based; 4 cr.  
 46323 134 DIS, 9:05- 9:55 Th, Akerman Hall 317, In Person Term Based; 4 cr.  
 46311 103 DIS, 8:00- 8:50 Th, Ford Hall 155, In Person Term Based; 4 cr.  
 46319 130 DIS, 9:05- 9:55 Th, Ford Hall 155, In Person Term Based; 4 cr.  
 46309 101 DIS, 8:00- 8:50 Th, Smith Hall 111, In Person Term Based; 4 cr.  
 46313 105 DIS, 8:00- 8:50 Th, Smith Hall 121, In Person Term Based; 4 cr.  
 68631 117 DIS, 8:00- 8:50 Th, Bruininks Hall 117, In Person Term Based; 4 cr.  
 68629 115 DIS, 8:00- 8:50 Th, Bruininks Hall 123, In Person Term Based; 4 cr.  
 68627 113 DIS, 8:00- 8:50 Th, Bruininks Hall 144, In Person Term Based; 4 cr.  
 68643 146 DIS, 9:05- 9:55 Th, Bruininks Hall 144, In Person Term Based; 4 cr.  
 68639 142 DIS, 9:05- 9:55 Th, Bruininks Hall 432B, In Person Term Based; 4 cr.  
 68635 138 DIS, 9:05- 9:55 Th, Bruininks Hall 512B, In Person Term Based; 4 cr.  
 46315 107 DIS, 8:00- 8:50 Th, Vincent Hall 213, In Person Term Based; 4 cr.  
 46321 132 DIS, 9:05- 9:55 Th, Vincent Hall 313, In Person Term Based; 4 cr.  
 46325 136 DIS, 9:05- 9:55 Th, Vincent Hall 364, In Person Term Based; 4 cr.  
 56305 221 DIS, 16:40-17:30 Th, Akerman Hall 317, In Person Term Based; 4 cr.  
 56301 201 DIS, 15:35-16:25 Th, Armory Building 116, In Person Term Based; 4 cr.  
 56303 205 DIS, 15:35-16:25 Th, Folwell Hall 6, In Person Term Based; 4 cr.  
 58695 207 DIS, 15:35-16:25 Th, Folwell Hall 32, In Person Term Based; 4 cr.  
 58693 203 DIS, 15:35-16:25 Th, Folwell Hall 108, In Person Term Based; 4 cr.  
 56307 223 DIS, 16:40-17:30 Th, Ford Hall 170, In Person Term Based; 4 cr.  
 68625 111 DIS, 8:00- 8:50 Th, Bruininks Hall 420B, In Person Term Based; 4 cr.  
 68641 144 DIS, 9:05- 9:55 Th, Bruininks Hall 432A, In Person Term Based; 4 cr.  
 68638 141 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68634 120 LAB, 14:30-16:25 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.

68646 149 LAB, 16:40-18:35 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 56311 227 DIS, 16:40-17:30 Th, Lind Hall 215, In Person Term Based; 4 cr.  
 56309 225 DIS, 16:40-17:30 Th, Smith Hall 111, In Person Term Based; 4 cr.  
 68644 147 LAB, 11:15-13:10 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68630 116 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68636 139 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68632 118 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68626 112 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68642 145 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68628 114 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68640 143 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46324 135 LAB, 18:50-20:45 T, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 58696 208 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56306 222 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56304 206 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56310 226 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 58694 204 LAB, 13:25-15:20 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56312 228 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56308 224 LAB, 17:45-19:40 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56302 202 LAB, 17:45-19:40 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56300 200 LEC, 15:35-16:25 MTWF, No Room Required, In Person Term Based; Annie Bartels; 4 cr.  
 46308 100 LEC, 9:05- 9:55 MTWF, Willey Hall 125, In Person Term Based; Jennifer Kroschel; 4 cr.  
 46326 137 LAB, 11:15-13:10 W, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46318 110 LAB, 11:15-13:10 T, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46310 102 LAB, 11:15-13:10 M, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46320 131 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46312 104 LAB, 14:30-16:25 M, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46322 133 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46314 106 LAB, 16:40-18:35 M, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 46316 108 LAB, 18:50-20:45 M, ADCS Computer Lab TBA, In Person Term Based; 4 cr.

### 1302W Introductory Physics for Science and Engineering II

**(Student Option; Prereq: 1301W, concurrent registration is required (or allowed) in Math 1272 or Math 1372 or Math 1572PHYS,WI)**

58718 607 DIS, 19:40-20:30 M, Smith Hall 121, In Person Term Based; 4 cr.  
 58720 620 DIS, 20:45-21:35 M, Smith Hall 121, In Person Term Based; 4 cr.  
 68677 532 DIS, 16:40-17:30 Th, Bruininks Hall 117, In Person Term Based; 4 cr.  
 68681 609 DIS, 19:40-20:30 M, Bruininks Hal 121, In Person Term Based; 4 cr.  
 68687 628 DIS, 20:45-21:35 M, Bruininks Hal 121, In Person Term Based; 4 cr.  
 68671 513 DIS, 15:35-16:25 Th, Bruininks Hall 123, In Person Term Based; 4 cr.  
 68675 530 DIS, 16:40-17:30 Th, Bruininks Hall 123, In Person Term Based; 4 cr.  
 68659 313 DIS, 11:15-12:05 Th, Bruininks Hall 144, In Person Term Based; 4 cr.  
 68669 511 DIS, 15:35-16:25 Th, Bruininks Hall 144, In Person Term Based; 4 cr.  
 68651 113 DIS, 8:00- 8:50 Th, Bruininks Hall 420A, In Person Term Based; 4 cr.  
 68683 611 DIS, 19:40-20:30 M, Bruininks Hall 420A, In Person Term Based; 4 cr.  
 68689 630 DIS, 20:45-21:35 M, Bruininks Hall 420A, In Person Term Based; 4 cr.  
 68667 509 DIS, 15:35-16:25 Th, Bruininks Hall 512B, In Person Term Based; 4 cr.  
 68663 340 DIS, 12:20-13:10 Th, Bruininks Hall 530B, In Person Term Based; 4 cr.  
 46330 103 DIS, 8:00- 8:50 Th, Vincent Hall 301, In Person Term Based; 4 cr.

46334 121 DIS, 9:05- 9:55 Th, Vincent Hall 301, In Person Term Based; 4 cr.  
 46340 111 DIS, 8:00- 8:50 Th, Vincent Hall 364, In Person Term Based; 4 cr.  
 46355 311 DIS, 11:15-12:05 Th, Blegen Hall 215, In Person Term Based; 4 cr.  
 46351 307 DIS, 11:15-12:05 Th, Blegen Hall 230, In Person Term Based; 4 cr.  
 56320 207 DIS, 8:00- 8:50 Th, Akerman Hall 317, In Person Term Based; 4 cr.  
 56967 401 DIS, 12:20-13:10 Th, Appleby Hall 319, In Person Term Based; 4 cr.  
 56973 409 DIS, 12:20-13:10 Th, Armory Building 116, In Person Term Based; 4 cr.  
 56983 428 DIS, 13:25-14:15 Th, Armory Building 202, In Person Term Based; 4 cr.  
 56318 205 DIS, 8:00- 8:50 Th, Burton Hall 123, In Person Term Based; 4 cr.  
 56331 224 DIS, 9:05- 9:55 Th, Cooke Hall 215, In Person Term Based; 4 cr.  
 56981 426 DIS, 13:25-14:15 Th, Keller Hall 3-125, In Person Term Based; 4 cr.  
 56971 405 DIS, 12:20-13:10 Th, Elliott Hall N119, In Person Term Based; 4 cr.  
 56327 220 DIS, 9:05- 9:55 Th, Folwell Hall 118, In Person Term Based; 4 cr.  
 56979 424 DIS, 13:25-14:15 Th, Folwell Hall 118, In Person Term Based; 4 cr.  
 56977 422 DIS, 13:25-14:15 Th, Folwell Hall 119, In Person Term Based; 4 cr.  
 56333 226 DIS, 9:05- 9:55 Th, Ford Hall 110, In Person Term Based; 4 cr.  
 56329 222 DIS, 9:05- 9:55 Th, Ford Hall 115, In Person Term Based; 4 cr.  
 56316 203 DIS, 8:00- 8:50 Th, Ford Hall 150, In Person Term Based; 4 cr.  
 68662 316 LAB, 8:00- 9:55 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68666 343 LAB, 8:00- 9:55 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68654 116 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68680 535 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68658 134 LAB, 14:30-16:25 M, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68686 614 LAB, 16:40-18:35 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68692 633 LAB, 16:40-18:35 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68674 516 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 56982 427 LAB, In Person Term Based; 4 cr.  
 56969 403 DIS, 12:20-13:10 Th, Mechanical Engineering 221, In Person Term Based; 4 cr.  
 56314 201 DIS, 8:00- 8:50 Th, Nicholson Hall 120, In Person Term Based; 4 cr.  
 56325 209 DIS, 8:00- 8:50 Th, Nicholson Hall 335, In Person Term Based; 4 cr.  
 56335 228 DIS, 9:05- 9:55 Th, Vincent Hall 20, In Person Term Based; 4 cr.  
 68660 314 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68664 341 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68656 132 LAB, 10:10-12:05 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68652 114 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68684 612 LAB, 14:30-16:25 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68690 631 LAB, 14:30-16:25 F, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68678 533 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68668 510 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68670 512 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68672 514 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68682 610 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68688 629 LAB, 18:50-20:45 Th, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 68676 531 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; 4 cr.  
 56975 420 DIS, 13:25-14:15 Th, Blegen Hall 220, In Person Term Based; 4 cr.  
 46353 309 DIS, 11:15-12:05 Th, Blegen Hall 110, In Person Term Based; 4 cr.  
 56968 402 LAB, 9:05-11:00 F, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.  
 56974 410 LAB, 9:05-11:00 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.

56970 404 LAB, 9:05-11:00 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	48774 523 LAB, 12:20-14:15 F, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46357 330 DIS, 12:20-13:10 Th, Kolthoff Hall 137, In Person Term Based; 4 cr.
56328 221 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46379 506 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	48767 109 DIS, 8:00- 8:50 Th, Lind Hall 215, In Person Term Based; 4 cr.
56980 425 LAB, 10:10-12:05 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46375 502 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46369 526 DIS, 16:40-17:30 Th, Room TBA, In Person Term Based; 4 cr.
56315 202 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46377 504 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	58716 605 DIS, 19:40-20:30 M, Smith Hall 111, In Person Term Based; 4 cr.
56972 406 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46335 122 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	58722 622 DIS, 20:45-21:35 M, Smith Hall 111, In Person Term Based; 4 cr.
56334 227 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46333 106 LAB, 12:20-14:15 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	
56324 208 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	48766 108 LAB, 12:20-14:15 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	<b>1402V Honors Physics II</b> <b>(A-F only; Prereq: 1401V, honors student or permission of University Honors ProgramPHYS,WI)</b>
56317 204 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46354 310 LAB, 14:30-16:45 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	60558 009 DIS, 13:25-14:15 Th, Bruininks Hall 123, In Person Term Based; 4 cr.
56332 225 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46364 337 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	60557 008 DIS, 10:10-11:00 Th, Bruininks Hall 512A, In Person Term Based; 4 cr.
56336 229 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46366 339 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46384 003 DIS, 11:15-12:05 Th, Rapson Hall 45, In Person Term Based; 4 cr.
56326 210 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46350 306 LAB, 16:40-18:35 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	55611 007 DIS, 12:20-13:10 Th, Armory Building 202, In Person Term Based; 4 cr.
56319 206 LAB, 15:35-17:30 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46352 308 LAB, 16:40-18:35 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	55610 006 DIS, 12:20-13:10 Th, Civil Engineering Bldg 212, In Person Term Based; 4 cr.
56978 423 LAB, 15:35-17:30 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46368 525 LAB, 18:50-20:45 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46385 004 DIS, 11:15-12:05 Th, Peik Hall 28, In Person Term Based; 4 cr.
56330 223 LAB, 16:40-18:35 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68673 515 DIS, 15:35-16:25 Th, Bruininks Hall 117, In Person Term Based; 4 cr.	46386 005 DIS, 12:20-13:10 Th, Blegen Hall 140, In Person Term Based; 4 cr.
56984 429 LAB, 16:40-18:35 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68653 115 DIS, 8:00- 8:50 Th, Bruininks Hall 119, In Person Term Based; 4 cr.	46383 002 DIS, 11:15-12:05 Th, Blegen Hall 150, In Person Term Based; 4 cr.
56976 421 LAB, 10:10-12:05 Th, No Room Required, In Person Term Based; Annie Bartels; 4 cr.	68657 133 DIS, 9:05- 9:55 Th, Bruininks Hall 119, In Person Term Based; 4 cr.	60559 109 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 109 PHYS 1502V; 4 cr.
46370 527 LAB, 18:50-20:45 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68661 315 DIS, 11:15-12:05 Th, Bruininks Hall 119, In Person Term Based; 4 cr.	60560 110 LAB, 9:05-11:00 F, ADCS Computer Lab TBA, In Person Term Based; Meets With: 110 PHYS 1502V; 4 cr.
46381 521 LAB, 12:20-14:15 F, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68679 534 DIS, 16:40-17:30 Th, Bruininks Hall 119, In Person Term Based; 4 cr.	58747 108 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 108 PHYS 1502V; 4 cr.
48772 508 LAB, 12:20-14:15 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68685 613 DIS, 19:40-20:30 M, Bruininks Hall 119, In Person Term Based; 4 cr.	54316 107 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 107 PHYS 1502V; Annie Bartels; 4 cr.
46337 124 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68691 632 DIS, 20:45-21:35 M, Bruininks Hall 119, In Person Term Based; 4 cr.	49806 001 LEC, 11:15-12:05 MTWF, Anderson Hall 210, In Person Term Based; Jennifer Kroschel; 4 cr.
58727 627 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68665 342 DIS, 12:20-13:10 Th, Bruininks Hall 144, In Person Term Based; 4 cr.	46391 105 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 105 PHYS 1502V; Annie Bartels; 4 cr.
58725 625 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	48765 107 DIS, 8:00- 8:50 Th, Akerman Hall 327, In Person Term Based; 4 cr.	46392 106 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Meets With: 106 PHYS 1502V; Annie Bartels; 4 cr.
58713 602 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46336 123 DIS, 9:05- 9:55 Th, Akerman Hall 327, In Person Term Based; 4 cr.	46387 101 LAB, 12:20-14:15 M, ADCS Computer Lab TBA, In Person Term Based; Meets With: 101 PHYS 1502V; Annie Bartels; 4 cr.
58717 606 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	68655 131 DIS, 9:05- 9:55 Th, Amundson Hall 104, In Person Term Based; 4 cr.	46389 103 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Meets With: 103 PHYS 1502V; Annie Bartels; 4 cr.
46372 529 LAB, 18:50-20:45 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46367 524 DIS, 16:40-17:30 Th, Amundson Hall 104, In Person Term Based; 4 cr.	46388 102 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 102 PHYS 1502V; Annie Bartels; 4 cr.
58721 621 LAB, 18:50-20:45 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	58726 626 DIS, 20:45-21:35 M, Amundson Hall 104, In Person Term Based; 4 cr.	46390 104 LAB, 14:30-16:25 M, ADCS Computer Lab TBA, In Person Term Based; Meets With: 104 PHYS 1502V; Annie Bartels; 4 cr.
58723 623 LAB, 18:50-20:45 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46380 520 DIS, 16:40-17:30 Th, Amundson Hall 116, In Person Term Based; 4 cr.	
58711 600 LEC, 17:45-19:25 MW, Willey Hall 125, In Person Term Based; Annie Bartels; 4 cr.	48773 522 DIS, 16:40-17:30 Th, Amundson Hall 120, In Person Term Based; 4 cr.	<b>1502V Honors Introduction to Electricity and Magnetism</b> <b>(A-F only; Prereq: 1501V, honorsPHYS,WI)</b>
56313 200 LEC, 9:05- 9:55 MTWF, No Room Required, In Person Term Based; Annie Bartels; 4 cr.	58724 624 DIS, 20:45-21:35 M, Amundson Hall 156, In Person Term Based; 4 cr.	60562 002 DIS, 11:15-12:05 Th, Bruininks Hall 123, In Person Term Based; 4 cr.
58715 604 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46361 334 DIS, 12:20-13:10 Th, Amundson Hall 158, In Person Term Based; 4 cr.	60563 003 DIS, 12:20-13:10 Th, Bruininks Hall 123, In Person Term Based; 4 cr.
58719 608 LAB, 16:40-18:35 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46365 338 DIS, 12:20-13:10 Th, Amundson Hall 162, In Person Term Based; 4 cr.	60573 109 LAB, 8:00- 9:55 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 109 PHYS 1402V; 4 cr.
56966 400 LEC, 12:20-13:10 MTWF, No Room Required, In Person Term Based; Annie Bartels; 4 cr.	46378 505 DIS, 15:35-16:25 Th, Appleby Hall 319, In Person Term Based; 4 cr.	60574 110 LAB, 9:05-11:00 F, ADCS Computer Lab TBA, In Person Term Based; Meets With: 110 PHYS 1402V; 4 cr.
46344 300 LEC, 11:15-12:05 MTWF, Willey Hall 125, In Person Term Based; Annie Bartels; 4 cr.	48771 507 DIS, 15:35-16:25 Th, Rapson Hall 15, In Person Term Based; 4 cr.	60572 108 LAB, 14:30-16:25 Th, ADCS Computer Lab TBA, In Person Term Based; Meets With: 108 PHYS 1402V; 4 cr.
46373 500 LEC, 16:40-17:30 MTWF, Willey Hall 125, In Person Term Based; Annie Bartels; 4 cr.	46376 503 DIS, 15:35-16:25 Th, Rapson Hall 56, In Person Term Based; 4 cr.	60571 107 LAB, 12:20-14:15 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 107 PHYS 1402V; Annie Bartels; 4 cr.
46327 100 LEC, 8:00- 8:50 MTWF, Willey Hall 125, In Person Term Based; Jennifer Kroschel; 4 cr.	46363 336 DIS, 12:20-13:10 Th, Rapson Hall 58, In Person Term Based; 4 cr.	60561 001 LEC, 11:15-12:05 MTWF, Hubert H. Humphrey Center 184, In Person Term Based; Jennifer Kroschel; 4 cr.
46331 104 LAB, 10:10-12:05 M, ADCS Computer Lab TBA, In Person Term Based; ; 4 cr.	46338 125 DIS, 9:05- 9:55 Th, Burton Hall 123, In Person Term Based; 4 cr.	60569 105 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 105 PHYS 1402V; Annie Bartels; 4 cr.
46343 130 LAB, 10:10-12:05 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46345 301 DIS, 11:15-12:05 Th, Civil Engineering Bldg 213, In Person Term Based; 4 cr.	60570 106 LAB, 12:20-14:15 W, ADCS Computer Lab TBA, In Person Term Based; Meets With: 106 PHYS 1402V; Annie Bartels; 4 cr.
46360 333 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46349 305 DIS, 11:15-12:05 Th, Cooke Hall 206, In Person Term Based; 4 cr.	60564 101 LAB, 12:20-14:15 M, ADCS Computer Lab TBA, In Person Term Based; Meets With: 101 PHYS 1402V; Annie Bartels; 4 cr.
46362 335 LAB, 8:00- 9:55 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46347 303 DIS, 11:15-12:05 Th, Elliott Hall N119, In Person Term Based; 4 cr.	60567 103 LAB, 14:30-16:25 W, ADCS Computer Lab TBA, In Person Term Based; Meets With: 103 PHYS 1402V; Annie Bartels; 4 cr.
46356 312 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46332 105 DIS, 8:00- 8:50 Th, Folwell Hall 105, In Person Term Based; 4 cr.	60566 102 LAB, 14:30-16:25 T, ADCS Computer Lab TBA, In Person Term Based; Meets With: 102 PHYS 1402V; Annie Bartels; 4 cr.
46358 331 LAB, 8:00- 9:55 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46328 101 DIS, 8:00- 8:50 Th, Folwell Hall 106, In Person Term Based; 4 cr.	60568 104 LAB, 14:30-16:25 M, ADCS Computer Lab TBA, In Person Term Based; Meets With: 104 PHYS 1402V; Annie Bartels; 4 cr.
46346 302 LAB, 8:00- 9:55 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	48769 127 DIS, 9:05- 9:55 Th, Folwell Hall 123, In Person Term Based; 4 cr.	
46348 304 LAB, 8:00- 9:55 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46374 501 DIS, 15:35-16:25 Th, Folwell Hall 123, In Person Term Based; 4 cr.	
46339 126 LAB, 10:10-12:05 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46359 332 DIS, 12:20-13:10 Th, Ford Hall 110, In Person Term Based; 4 cr.	
48770 128 LAB, 10:10-12:05 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46342 129 DIS, 9:05- 9:55 Th, Ford Hall 130, In Person Term Based; 4 cr.	
48768 110 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	46371 528 DIS, 16:40-17:30 Th, Ford Hall 155, In Person Term Based; 4 cr.	
46341 112 LAB, 10:10-12:05 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	58712 601 DIS, 19:40-20:30 M, Ford Hall 155, In Person Term Based; 4 cr.	
46329 102 LAB, 10:10-12:05 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 4 cr.	58714 603 DIS, 19:40-20:30 M, Ford Hall 170, In Person Term Based; 4 cr.	

**1905 Freshman Seminar****(Student Option; Prereq: Fr)**60580 004 LEC, In Person Term Based; 1-3 cr.  
60579 003 LEC, 13:25-14:15 TTh, Physics & Nanotechnology 120, In Person Term Based; Cynthia Cattell; 1-3 cr.

60578 002 LEC, 11:15-12:05 MW, Physics &amp; Nanotechnology 110, In Person Term Based; Eric Ganz; 1-3 cr.

55455 001 LEC, 14:30-16:25 T, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 1-3 cr.

**1910W Freshman Seminar: Writing****Intensive****(Student Option; Prereq: freshmanWI)**

55397 001 LEC, 10:10-11:00 TTh, Physics &amp; Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 1-3 cr.

**2303 Physics III: Physics of Matter****(Student Option; Prereq: 1302, [MATH 1272 or MATH 1372 or MATH 1572H], [MatSci or EE] student)**

46382 001 LEC, 14:30-15:20 MTWTF, Anderson Hall 250, In Person Term Based; Jennifer Kroschel; 4 cr.

**2311 Modern Physics****(Student Option; Prereq: [1302 or 1402], Chem 1022, Math 2243)**

50417 B02 IND, Online &amp; Distance Lrng (ODL); Robert Cassola; 4 cr.

50418 C02 IND, Online &amp; Distance Lrng (ODL); Robert Cassola; 4 cr.

48662 D02 IND, Online &amp; Distance Lrng (ODL); Robert Cassola; 4 cr.

48663 E02 IND, Online &amp; Distance Lrng (ODL); Robert Cassola; 4 cr.

**2601 Quantum Physics****(Student Option; Prereq: [2403H or 2503], [concurrent registration is required (or allowed) in Math 2243 or Math 2373 or Math 2574H])**

57395 007 DIS, 11:15-12:05 T, Bruininks Hall 119, In Person Term Based; Annie Bartels; 4 cr.

54057 006 DIS, 13:25-14:15 T, Bruininks Hall 420A, In Person Term Based; Annie Bartels; 4 cr.

51078 001 LEC, 9:45-11:00 TTh, Vincent Hall 16, In Person Term Based; Jennifer Kroschel; 4 cr.

51079 002 DIS, 12:20-13:10 M, Vincent Hall 313, In Person Term Based; Annie Bartels; 4 cr.

51082 005 DIS, 9:05-9:55 M, Smith Hall 111, In Person Term Based; Annie Bartels; 4 cr.

51081 004 DIS, 13:25-14:15 M, Smith Hall 121, In Person Term Based; Annie Bartels; 4 cr.

51080 003 DIS, 11:15-12:05 M, Bruininks Hall 420A, In Person Term Based; Annie Bartels; 4 cr.

**2605 Quantum Physics Laboratory****(Student Option; Prereq: concurrent registration is required (or allowed) in 2601)**

54058 006 LAB, 14:30-17:30 F, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 3 cr.

46416 001 LEC, 12:20-13:10 T, West Bank Skyway 20, In Person Term Based; Jennifer Kroschel; 3 cr.

52881 005 LAB, 14:30-17:30 Th, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 3 cr.

46419 004 LAB, 14:30-17:30 W, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 3 cr.

46418 003 LAB, 14:30-17:30 T, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 3 cr.

46417 002 LAB, 14:30-17:30 M, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 3 cr.

**3022 Introduction to Cosmology****(Student Option; Prereq: 2601)**

68862 001 LEC, 10:10-11:25 MW, Vincent Hall 6, In Person Term Based; Lucy Fortson; 3 cr.

**3071W Laboratory-Based Physics for****Teachers****(Student Option; Prereq: College algebra; no credit for CSE studentsPHYS,WI)**

57285 001 LAB, 9:05-12:05 MW, Bruininks Hall 131B, In Person Term Based; Jennifer Kroschel; 4 cr.

**3993 Directed Studies****(Student Option; Prereq: instr consent, dept consent)**

46782 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**3994 Directed Research****(Student Option; Prereq: instr consent, dept consent)**

46785 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**4002 Electricity and Magnetism****(Student Option; Prereq: [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math)**

56985 005 DIS, 11:15-12:05 T, Ford Hall 150, In Person Term Based; 4 cr.

54059 004 DIS, 11:15-12:05 Th, Armory Building 202, In Person Term Based; Annie Bartels; 4 cr.

68746 200 LEC, 11:15-12:05 MWF, Ford Hall B53, In Person Term Based; Shaul Hanany; 4 cr.

46393 100 LEC, 13:25-14:15 MWF, Ford Hall B53, In Person Term Based; Jennifer Kroschel; 4 cr.

50758 003 DIS, 11:15-12:05 T, Bruininks Hall 144, In Person Term Based; Annie Bartels; 4 cr.

50478 002 DIS, 11:15-12:05 T, Vincent Hall 209, In Person Term Based; Jennifer Kroschel; 4 cr.

**4052W Methods of Experimental Physics II****(Student Option; Prereq: 4051WI)**

54060 005 LAB, 9:05-11:00 MW, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.

46395 002 LAB, 10:10-12:05 TTh, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.

46396 003 LAB, 12:20-14:15 TTh, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.

50259 004 LAB, 14:30-16:25 TTh, ADCS Computer Lab TBA, In Person Term Based; Annie Bartels; 5 cr.

46394 001 LEC, 14:30-15:20 MWF, West Bank Skyway 20, In Person Term Based; Jennifer Kroschel; 5 cr.

**4211 Introduction to Solid-State Physics****(Student Option; Prereq: 4101, 4201)**

46420 001 LEC, 10:10-11:00 MWF, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 3 cr.

**4501 Experimental Project****(Student Option; Prereq: 4052, instr consent)**

46421 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**4511 Introduction to Nuclear and Particle Physics****(Student Option; Prereq: 4101)**

50131 001 LEC, 9:05-9:55 MWF, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 3 cr.

**4911 Introduction to Biopolymer Physics****(Student Option; Prereq: [2303, 2403H, 2503] or Chem 3501 or instr consent)**

57283 001 LEC, 11:15-12:30 TTh, Physics &amp; Nanotechnology 110, In Person Term Based; Meets With: 001 PHYS 5081; Jennifer Kroschel; 3 cr.

**4950H Senior Thesis****(S-N or Audit; Prereq: instr consent)**

50771 001 IND, In Person Term Based; Jennifer Kroschel; 1-3 cr.

**4960H Honors Seminar****(Student Option No Audit; Prereq: Upper div honors, instr consent)**

57954 001 LEC, 16:40-17:30 M, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 1 cr.

**4993 Directed Studies****(Student Option; Prereq: instr consent)**

52696 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**4994 Directed Research****(Student Option; Prereq: instr consent)**

52697 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**5002 Quantum Mechanics II****(Student Option; Prereq: 5001 or equiv)**

54243 002 DIS, 11:15-12:05 T, Vincent Hall 311, In Person Term Based; Annie Bartels; 4 cr.

54244 003 DIS, 12:20-13:10 T, Blegen Hall 435, In Person Term Based; Jennifer Kroschel; 4 cr.

46795 001 LEC, 11:15-12:30 MW, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 4 cr.

**5012 Classical Physics II****(Student Option; Prereq: 5011 or instr consent)**

46796 001 LEC, 13:25-15:20 TTh, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 4 cr.

**5041 Mathematical Methods for Physics****(Student Option; Prereq: 2601 or grad student)**

60338 001 LEC, 8:00-8:50 MTWTh, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 4 cr.

**5072 Best Practices in College Physics Teaching****(Student Option; )**

53571 001 DIS, 15:35-16:25 M, Akerman Hall 209, In Person Term Based; Jennifer Kroschel; 1-3 cr.

**5081 Introduction to Biopolymer Physics****(Student Option; Prereq: working knowledge of [thermodynamics, statistical mechanics])**

57284 001 LEC, 11:15-12:30 TTh, Physics &amp; Nanotechnology 110, In Person Term Based; Meets With: 001 PHYS 4911; Jennifer Kroschel; 3 cr.

**5402 Radiological Physics****(Student Option; Prereq: Two semesters of introductory calculus-based physics, such as PHYS1302W. Students not sure if they meet prerequisites should consult instructor.)**

60662 881 LEC, Primarily Online; 4 cr.

60664 885 LEC, Primarily Online; 4 cr.

60663 883 LEC, Primarily Online; 4 cr.

**5701 Solid-State Physics for Engineers and Scientists****(Student Option; Prereq: Grad or advanced undergrad in physics or engineering or the sciences)**

57282 001 LEC, 9:05-10:15 TTh, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 4 cr.

**5950 Colloquium Seminar****(S-N or Audit; Prereq: [Grad student or advanced undergrad in physics], dept consent)**

46786 001 LEC, 15:35-16:45 Th, Fraser Hall 101, In Person Term Based; Jennifer Kroschel; 1 cr.

**5970 Physics Journal Club****(S-N only; Prereq: 2601, 2605 or equiv; intended for 2nd-yr grad students in physics)**

55866 001 LEC, 15:35-16:25 M, Physics &amp; Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 1-3 cr.

**5980 Introduction to Research Seminar****(S-N or Audit; Prereq: Grad or upper div phys major)**

54046 001 LEC, 16:40-17:30 F, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 1 cr.

**5993 Directed Studies****(Student Option; Prereq: instr consent, dept consent)**

46783 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**5994 Directed Research****(Student Option; Prereq: Jr, dept consent)**

46784 001 IND, In Person Term Based; Jennifer Kroschel; 1-5 cr.

**8011 Quantum Field Theory I****(Student Option; Prereq: 8001 or instr consent)**

46806 001 LEC, 13:25-14:40 TTh, Physics &amp; Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 3 cr.

**8100 Seminar: Problems of Physics Teaching and Higher Education****(Student Option; )**

48848 001 LEC, 16:40-18:30 F, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 1 cr.

**8200 Seminar: Cosmology and High Energy Astrophysics****(S-N or Audit; Prereq: instr consent)**

51239 001 LEC, 12:15-13:15 M, Physics &amp; Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 1 cr.

**8300 Seminar: Biological and Medical Physics.****(S-N or Audit; Prereq: instr consent)**

56009 001 LEC, 10:10-11:00 W, Physics &amp; Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 1 cr.

**8333 FTE: Master's****(No Grade Associated; Prereq: Master's student, adviser and DGS consent)**

49152 001 IND, In Person Term Based; Jennifer Kroschel; 1 cr.

**8444 FTE: Doctoral****(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)**

49245 001 IND, In Person Term Based; Jennifer Kroschel; 1 cr.

**8500 Plan B Project**

(Student Option; Prereq: instr consent; may be taken once to satisfy Plan B master's project requirement; no cr toward PhD)

46804 001 IND, In Person Term Based; Jennifer Kroschel; 4 cr.

**8502 General Relativity and Cosmology II**

(Student Option; Prereq: 8501 or instr consent)  
68695 001 LEC, 16:40-17:55 Th, Physics & Nanotechnology 210, 15:25-16:30 T, Physics & Nanotechnology 210, In Person Term Based; Keith Olive; 3 cr.

**8600 Seminar: Space Physics**

(S-N or Audit; )  
46800 001 LEC, 12:20-13:10 T, Physics & Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49349 001 IND, In Person Term Based; Jennifer Kroschel; 1-6 cr.

**8700 Seminar: Condensed Matter Physics**

(S-N or Audit; Prereq: instr consent)  
46801 001 LEC, 13:15-15:00 W, Physics & Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 1 cr.

**8712 Solid-State Physics II**

(Student Option; Prereq: 8711 or instr consent)  
46798 001 LEC, 9:45-11:00 TTh, Physics & Nanotechnology 110, In Person Term Based; Jennifer Kroschel; 3 cr.

**8750 Advanced Topics in Condensed**

**Matter Physics**  
(Student Option; Prereq: 8712 or instr consent)  
68693 001 LEC, 9:30-11:00 MW, Physics & Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 3 cr.  
68694 002 LEC, 11:15-12:05 MW, Physics & Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49458 001 IND, In Person Term Based; Jennifer Kroschel; 1-18 cr.

**8800 Seminar: Nuclear Physics**

(S-N or Audit; )  
46802 001 LEC, 11:15-12:05 F, Physics & Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 1 cr.

**8900 Seminar: Elementary Particle Physics**

(S-N or Audit; )  
46803 001 LEC, 15:35-16:25 W, Physics & Nanotechnology 210, In Person Term Based; Jennifer Kroschel; 1 cr.

**8902 Elementary Particle Physics II**

(Student Option; Prereq: 8901 or instr consent)  
46799 001 LEC, 16:40-17:55 MW, Physics & Nanotechnology 120, In Person Term Based; Jennifer Kroschel; 3 cr.

**8994 Research in Physics**

(Student Option; Prereq: instr consent)  
46805 001 IND, In Person Term Based; Jennifer Kroschel; 1-12 cr.

**Physiology (PHSL)****3051 Human Physiology**

(Student Option; Prereq: [BIOL 1009 or 1 yr college bio], 1 yr college chem)  
47836 001 LEC, 15:35-16:25 MWF, Bell Museum Auditorium, In Person Term Based; Lisa Anderson; 4 cr.

47837 002 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-110, In Person Term Based; Lisa Anderson; 4 cr.  
53791 003 LAB, 13:25-15:20 T, Moos Health Sci Tower 3-110, In Person Term Based; Lisa Anderson; 4 cr.  
52930 005 LAB, 14:30-15:20 T, Moos Health Sci Tower 3-110, In Person Term Based; Lisa Anderson; 4 cr.

**4021 Advanced Physiology and Bioengineering: Bionic Human**

(A-F only; Prereq: 3061 or 3063 or 5061 or instr consent)

54315 001 LEC, 13:25-14:15 TTh, , In Person Term Based; Jane Barnard; 3 cr.

**4031 Physiological Discussions:**

**Contemporary Topics**  
(A-F only; Prereq: 3061 or 3063 or 5061 or instr consent)

55783 001 DIS, 9:45-11:15 Th, , In Person Term Based; Vincent Barnett; 2 cr.

**4900 Advanced Physiology Teaching**

**Laboratory**  
(A-F only; Prereq: [3051 or [3061, 3071]], instr consent)  
59082 001 LAB, In Person Term Based; Lisa Anderson; 1-6 cr.

**5096 Integrative Biology and Physiology**

**Research Advances**  
(S-N only; Prereq: instr consent)  
58183 001 LEC, In Person Term Based; Alessandro Bartolomucci; 1 cr.

**5101 Human Physiology**

(Student Option; Prereq: Grad student)  
49778 002 LAB, 15:35-17:30 W, , 13:25-15:20 MW, , In Person Term Based; Douglas Wangensteen; 5 cr.  
49780 003 LAB, 15:25-17:30 M, , 15:35-17:30 MW, , In Person Term Based; Douglas Wangensteen; 5 cr.  
49777 001 LEC, 10:10-11:00 MTThF, , In Person Term Based; Douglas Wangensteen; 5 cr.

**5116 Clinical Physiology II**

(A-F or Audit; Prereq: instr consent)  
51317 001 LEC, 9:05-12:05 F, , In Person Term Based; Lisa Anderson; 3 cr.

**5197 Stress Physiology**

(A-F only; Prereq: instr consent, grad student standing or physiology undergraduate major are recommended. Undergraduates are strongly encouraged to have taken 3061 or equivalent.)  
60962 001 DIS, 10:10-11:00 T, , In Person Term Based; Alessandro Bartolomucci; 1 cr.

**5444 Muscle**

(Student Option; Prereq: 3061 or 3071 or 5061 or BioC 3021 or BioC 4331 or instr consent)  
49437 001 LEC, 16:00-17:15 TTh, Keller Hall 3-210, In Person Term Based; Meets With: 001 BIOC 5444001 BMEN 5444; Sarah Dittrich; 3 cr.

**5510 Advanced Cardiac Physiology and**

**Anatomy**  
(Student Option; Prereq: instr consent)  
49791 001 LAB, 7:00-21:00 MTWThF, , In Person Term Based; Paul Iazzo; 2-3 cr.

**5525 Anatomy and Physiology of the Pelvis and Urinary System**

(A-F only; Prereq: One undergrad anatomy course, one undergrad physiology course, instr consent)  
56643 001 LAB, 8:00-17:00 WThF, , In Person Term Based; Stephen Katz; 1-2 cr.

**6051 Systems Physiology**

(A-F or Audit; Prereq: [Prev or current] neuroscience course; [biochemistry, human anatomy] recommended)  
47238 002 LAB, 13:25-15:20 Th, , In Person Term Based; Stephen Katz; 4 cr.  
47237 001 LEC, 13:25-15:20 M, , 13:25-14:15 MWFT, , In Person Term Based; Lisa Anderson; 4 cr.

**8216 Selected Topics in Autonomic and**

**Neuroendocrine Regulation**  
(S-N or Audit; )  
51716 001 LEC, In Person Term Based; Meets With: 001 NSC 8216; William England; 1 cr.

**8310 Advanced Topics in Cellular**

**Physiology**  
(Student Option; Prereq: instr consent)  
48270 001 LEC, In Person Term Based; Jane Barnard; 1 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49151 001 IND, In Person Term Based; Jane Barnard; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49244 001 IND, In Person Term Based; Jane Barnard; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49348 001 IND, In Person Term Based; Jane Barnard; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49435 001 IND, In Person Term Based; Jane Barnard; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49436 001 IND, In Person Term Based; Jane Barnard; 1-24 cr.

**Plant Biological Sciences (PBS)****8123 Research Ethics in the Plant and**

**Environmental Sciences**  
(S-N or Audit; Prereq: Grad student in [applied plant sciences or plant pathology or plant biological sciences or soil science])

52947 001 LEC, 16:00-18:00 Th, Hodson Hall 495, In Person Term Based; Meets With: 001 SOIL 8123001 APSC 8123001 PLPA 8123; Gail Kalli; 0.5 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
52943 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
52942 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

52939 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
52940 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Passed prelim oral or adviser approval)  
52938 001 IND, In Person Term Based; 1-24 cr.

**8900 Seminar**

(S-N or Audit; )  
52937 001 LEC, 15:30-16:30 T, Borlaug Hall 335, In Person Term Based; Gail Kalli; 1-2 cr.

**8910 Journal Club**

(S-N or Audit; )  
52944 001 DIS, 16:00-17:00 F, Biological Sciences Ctr 257, In Person Term Based; Gail Kalli; 1 cr.

**8993 Directed Studies**

(Student Option; Prereq: PBio grad student, instr consent)  
52946 001 IND, In Person Term Based; Gail Kalli; 1-5 cr.

**8994 Research**

(Student Option; Prereq: PBio grad student, instr consent)  
52945 001 IND, In Person Term Based; Gail Kalli; 1-5 cr.

**Plant Biology (P BIO)****1212 Plant Biotechnology and Society**

(Student Option; TS)  
55532 001 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; Nathan Springer; 3 cr.

**4511 Flowering Plant Diversity**



(Student Option; Prereq: BIOL 1001 or 1009 or 1009H or 2002)

58929 003 LAB, 12:30-15:30 W, Plant Growth Facility 174, In Person Term Based; 3 cr.  
58928 002 LAB, 12:30-15:30 M, Plant Growth Facility 174, In Person Term Based; 3 cr.  
58925 001 LEC, 10:40-11:30 MW, Room TBA, In Person Term Based; Kerrie Sendall; 3 cr.

#### 4516W Plant Cell Biology: Writing Intensive

(Student Option; Prereq: [Biol 2022 or Biol 3002 or Biol 3007], [BioC 3021 or Biol 3021 or Biol 4003]WI)

51266 001 LEC, 11:15-12:30 MW, Molecular Cellular Biol 2-122, In Person Term Based; Meets With: 001 PBIO 5516; John Ward; 3 cr.

#### 4601 Topics in Plant Biochemistry

(A-F only; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2003], CHEM 2301)

53541 001 LEC, 8:45-10:00 TTh, Biological Sciences Ctr 12, In Person Term Based; Meets With: 001 PBIO 5601; Clay Carter; 3 cr.

#### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consentWI)

52482 024 IND, In Person Term Based; 1-7 cr.  
49758 001 IND, In Person Term Based; 1-7 cr.  
52473 015 IND, In Person Term Based; ; 1-7 cr.  
52481 023 IND, In Person Term Based; ; 1-7 cr.  
51579 003 IND, In Person Term Based; Adrian Hegeman; 1-7 cr.  
52474 016 IND, In Person Term Based; Carolyn Silflow; 1-7 cr.  
52470 012 IND, In Person Term Based; David Mc Laughlin; 1-7 cr.  
52465 007 IND, In Person Term Based; Florence Gleason; 1-7 cr.  
52467 009 IND, In Person Term Based; Fumiaki Katagiri; 1-7 cr.  
52480 022 IND, In Person Term Based; George Weiblen; 1-7 cr.  
52475 017 IND, In Person Term Based; Imke Schmitt; 1-7 cr.  
51582 006 IND, In Person Term Based; Jane Glazebrook; 1-7 cr.  
52479 021 IND, In Person Term Based; John Ward; 1-7 cr.  
52478 020 IND, In Person Term Based; Kathryn VandenBosch; 1-7 cr.  
52469 011 IND, In Person Term Based; M Marks; 1-7 cr.  
52471 013 IND, In Person Term Based; Min Ni; 1-7 cr.  
52476 018 IND, In Person Term Based; Nathan Springer; 1-7 cr.  
52472 014 IND, In Person Term Based; Neil Olszewski; 1-7 cr.  
52468 010 IND, In Person Term Based; Paul Lefebvre; 1-7 cr.  
52477 019 IND, In Person Term Based; Peter Tiffin; 1-7 cr.  
51578 002 IND, In Person Term Based; Robert Brambl; 1-7 cr.  
51580 004 IND, In Person Term Based; Steve Gantt; 1-7 cr.  
51581 005 IND, In Person Term Based; Sue Gibson; 1-7 cr.  
52483 025 IND, In Person Term Based; Susan Wick; 1-7 cr.  
52466 008 IND, In Person Term Based; William Gray; 1-7 cr.

#### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consentWI)

52463 024 IND, In Person Term Based; 1-6 cr.  
49759 001 IND, In Person Term Based; 1-6 cr.  
52454 015 IND, In Person Term Based; ; 1-6 cr.  
52462 023 IND, In Person Term Based; ; 1-6 cr.  
51584 003 IND, In Person Term Based; Adrian Hegeman; 1-6 cr.  
52455 016 IND, In Person Term Based; Carolyn Silflow; 1-6 cr.  
52451 012 IND, In Person Term Based; David Mc Laughlin; 1-6 cr.  
51588 007 IND, In Person Term Based; Florence Gleason; 1-6 cr.  
52448 009 IND, In Person Term Based; Fumiaki Katagiri; 1-6 cr.  
52461 022 IND, In Person Term Based; George Weiblen; 1-6 cr.  
52456 017 IND, In Person Term Based; Imke Schmitt; 1-6 cr.  
51587 006 IND, In Person Term Based; Jane Glazebrook; 1-6 cr.  
52460 021 IND, In Person Term Based; John Ward; 1-6 cr.  
52459 020 IND, In Person Term Based; Kathryn VandenBosch; 1-6 cr.  
52450 011 IND, In Person Term Based; M Marks; 1-6 cr.  
52452 013 IND, In Person Term Based; Min Ni; 1-6 cr.  
52457 018 IND, In Person Term Based; Nathan Springer; 1-6 cr.  
52453 014 IND, In Person Term Based; Neil Olszewski; 1-6 cr.  
52449 010 IND, In Person Term Based; Paul Lefebvre; 1-6 cr.  
52458 019 IND, In Person Term Based; Peter Tiffin; 1-6 cr.

51583 002 IND, In Person Term Based; Robert Brambl; 1-6 cr.  
51585 004 IND, In Person Term Based; Steve Gantt; 1-6 cr.  
51586 005 IND, In Person Term Based; Sue Gibson; 1-6 cr.  
52464 025 IND, In Person Term Based; Susan Wick; 1-6 cr.  
51589 008 IND, In Person Term Based; William Gray; 1-6 cr.

#### 4993 Directed Studies

(S-N or Audit; Prereq: instr consent)

48272 001 IND, In Person Term Based; 1-7 cr.  
52423 015 IND, In Person Term Based; ; 1-7 cr.  
52431 023 IND, In Person Term Based; ; 1-7 cr.  
52432 024 IND, In Person Term Based; ; 1-7 cr.  
51591 003 IND, In Person Term Based; Adrian Hegeman; 1-7 cr.  
52424 016 IND, In Person Term Based; Carolyn Silflow; 1-7 cr.  
52420 012 IND, In Person Term Based; David Mc Laughlin; 1-7 cr.  
52415 007 IND, In Person Term Based; Florence Gleason; 1-7 cr.  
52417 009 IND, In Person Term Based; Fumiaki Katagiri; 1-7 cr.  
52430 022 IND, In Person Term Based; George Weiblen; 1-7 cr.  
52425 017 IND, In Person Term Based; Imke Schmitt; 1-7 cr.  
51594 006 IND, In Person Term Based; Jane Glazebrook; 1-7 cr.  
52429 021 IND, In Person Term Based; John Ward; 1-7 cr.  
52428 020 IND, In Person Term Based; Kathryn VandenBosch; 1-7 cr.  
52419 011 IND, In Person Term Based; M Marks; 1-7 cr.  
52421 013 IND, In Person Term Based; Min Ni; 1-7 cr.  
52426 018 IND, In Person Term Based; Nathan Springer; 1-7 cr.  
52422 014 IND, In Person Term Based; Neil Olszewski; 1-7 cr.  
52418 010 IND, In Person Term Based; Paul Lefebvre; 1-7 cr.  
52427 019 IND, In Person Term Based; Peter Tiffin; 1-7 cr.  
51590 002 IND, In Person Term Based; Robert Brambl; 1-7 cr.  
51592 004 IND, In Person Term Based; Steve Gantt; 1-7 cr.  
51593 005 IND, In Person Term Based; Sue Gibson; 1-7 cr.  
52433 025 IND, In Person Term Based; Susan Wick; 1-7 cr.  
52416 008 IND, In Person Term Based; William Gray; 1-7 cr.

#### 4994 Directed Research

(S-N or Audit; Prereq: instr consent)

52446 024 IND, In Person Term Based; 1-6 cr.  
48273 001 IND, In Person Term Based; 1-6 cr.  
52437 015 IND, In Person Term Based; ; 1-6 cr.  
52445 023 IND, In Person Term Based; ; 1-6 cr.  
51596 003 IND, In Person Term Based; Adrian Hegeman; 1-6 cr.  
52438 016 IND, In Person Term Based; Carolyn Silflow; 1-6 cr.  
52434 012 IND, In Person Term Based; David Mc Laughlin; 1-6 cr.  
51600 007 IND, In Person Term Based; Florence Gleason; 1-6 cr.  
51602 009 IND, In Person Term Based; Fumiaki Katagiri; 1-6 cr.  
52444 022 IND, In Person Term Based; George Weiblen; 1-6 cr.  
52439 017 IND, In Person Term Based; Imke Schmitt; 1-6 cr.  
51599 006 IND, In Person Term Based; Jane Glazebrook; 1-6 cr.  
52443 021 IND, In Person Term Based; John Ward; 1-6 cr.  
52442 020 IND, In Person Term Based; Kathryn VandenBosch; 1-6 cr.  
51604 011 IND, In Person Term Based; M Marks; 1-6 cr.  
52435 013 IND, In Person Term Based; Min Ni; 1-6 cr.  
52440 018 IND, In Person Term Based; Nathan Springer; 1-6 cr.  
52436 014 IND, In Person Term Based; Neil Olszewski; 1-6 cr.  
51603 010 IND, In Person Term Based; Paul Lefebvre; 1-6 cr.  
52441 019 IND, In Person Term Based; Peter Tiffin; 1-6 cr.  
51595 002 IND, In Person Term Based; Robert Brambl; 1-6 cr.  
51597 004 IND, In Person Term Based; Steve Gantt; 1-6 cr.  
51598 005 IND, In Person Term Based; Sue Gibson; 1-6 cr.  
52447 025 IND, In Person Term Based; Susan Wick; 1-6 cr.  
51601 008 IND, In Person Term Based; William Gray; 1-6 cr.

#### 5516 Plant Cell Biology

(Student Option; Prereq: [Biol 2022 or Biol 3007 or Biol 3022], [Biol 3021 or BioC 3021 or Biol 4003])

51265 001 LEC, 11:15-12:30 MW, Molecular Cellular Biol 2-122, In Person Term Based; Meets With: 001 PBIO 4516W; John Ward; 3 cr.

#### 5601 Topics in Plant Biochemistry

(A-F or Audit; Prereq: [BIOL 1002 or BIOL 1009 or BIOL 2003], CHEM 2301)

67700 001 LEC, 8:45-10:00 TTh, Biological Sciences Ctr 12, In Person Term Based; Meets With: 001 PBIO 4601; Clay Carter; 3 cr.

#### 5960 Special Topics

(Student Option; )

53143 004 LEC, In Person Term Based; 1-3 cr.  
53124 002 LEC, 15:30-16:30 T, Cargill Building 105, In Person Term Based; ; 1-3 cr.  
53142 003 LEC, 13:00-15:00 W, Room TBA, In Person Term Based; George Weiblen; 1-3 cr.  
50347 001 LEC, In Person Term Based; Neil Olszewski; 1-3 cr.

### Plant Pathology (PLPA)

#### 2001 Introductory Plant Pathology

(Student Option; Prereq: BIOL 1009 or equiv)

47120 001 LEC, 10:40-11:30 MW, Borlaug Hall 365, In Person Term Based; Ruth Dill-Macky; 3 cr.  
47121 002 LAB, 11:45-13:40 W, Plant Growth Facility 136, In Person Term Based; Ruth Dill-Macky; 3 cr.  
47122 003 LAB, 15:00-16:55 W, Plant Growth Facility 136, In Person Term Based; Ruth Dill-Macky; 3 cr.

#### 2003 Plague, Famine, and Beer: The Impact of Microscopic Organisms on Human Civilization

(Student Option; HIS)

67305 001 LEC, Completely Online; Brett Arenz; 3 cr.

#### 3003 Diseases of Forest and Shade Trees

(Student Option; )

47117 001 LEC, 8:30-9:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 PLPA 5003; Robert Blanchette; 3 cr.  
53262 002 LAB, 15:10-17:00 W, Borlaug Hall 365, In Person Term Based; Meets With: 002 PLPA 5003; Robert Blanchette; 3 cr.

#### 3090 Research in Plant Pathology

(Student Option; )

48511 001 IND, In Person Term Based; Chana Johnston; 1-4 cr.

#### 4096 Professional Experience Program: Internship

(S-N or Audit; Prereq: COAFES undergrad, complete internship contract available in COAFES Career Services before registering; UC only)

48198 001 FWK, In Person Term Based; Chana Johnston; 1-3 cr.

#### 5003 Diseases of Forest and Shade Trees

(Student Option; )

48621 001 LEC, 8:30-9:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 PLPA 3003; Robert Blanchette; 3 cr.  
48622 002 LAB, 15:10-17:00 W, Borlaug Hall 365, In Person Term Based; Meets With: 002 PLPA 3003; Robert Blanchette; 3 cr.

#### 5090 Issues in Plant Pathology

(Student Option; )

52840 001 IND, In Person Term Based; Chana Johnston; 1-4 cr.

#### 5103 Plant-Microbe Interactions

(Student Option; Prereq: Intro course in plant pathology or molecular biology or equiv)

59117 001 LEC, 10:15-11:30 TTh, Borlaug Hall 491, In Person Term Based; Meets With: 001 PLPA 8103; ; 3 cr.

#### 5203 Introduction to Fungal Biology

(Student Option; Prereq: BIOL 1009 or equiv)

60842 002 LAB, 9:35-11:30 M, Borlaug Hall 296, In Person Term Based; Brett Arenz; 3 cr.  
60841 001 LEC, 8:30-9:20 TTh, Borlaug Hall 491, In Person Term Based; Brett Arenz; 3 cr.

#### 5300 Current Topics in Molecular Plant Pathology

(S-N only; Prereq: instr consent)

59116 001 LEC, 11:45-12:35 W, Borlaug Hall 491, In Person Term Based; James Bradeen; 1-2 cr.

#### 5660 Plant Disease Resistance and Applications

(A-F only; Prereq: 2001, BIOL 4003)

57321 001 LEC, 13:00-14:15 MW, Borlaug Hall 491, In Person Term Based; Brian Steffenson; 3 cr.  
57322 002 DIS, 14:20-15:10 W, Borlaug Hall 491, In Person Term Based; Brian Steffenson; 3 cr.

### 5999 Special Topics in Plant Pathology (Student Option; )

48510 002 LEC, 9:35-10:25 F, Borlaug Hall 491, In Person Term Based; Chana Johnston; 1-8 cr.  
57320 001 LEC, In Person Term Based; Robert Blanchette; 1-8 cr.  
57319 003 LAB, 10:40-12:35 F, Borlaug Hall 295, In Person Term Based; Senyu Chen; 1-8 cr.

### 8090 Advanced Procedures and Research in Plant Pathology (Student Option; )

52363 001 LEC, In Person Term Based; Chana Johnston; 1-8 cr.  
55747 002 LEC, In Person Term Based; James Kurlle; 1-8 cr.

### 8103 Plant-Microbe Interactions

(Student Option; Prereq: Intro course in plant pathology or molecular biology or equiv)  
59118 001 LEC, 10:15-11:30 TTh, Borlaug Hall 491, In Person Term Based; Meets With: 001 PLPA 5103; ; 3 cr.

### 8104 Plant Virology

(A-F only; Prereq: 5480)  
56617 002 LAB, 13:30-15:30 TTh, Borlaug Hall 295, In Person Term Based; Benham Lockhart; 2 cr.  
56616 001 LEC, 12:30-13:20 TTh, Borlaug Hall 491, In Person Term Based; Benham Lockhart; 2 cr.

### 8105 Plant Bacteriology

(Student Option; Prereq: 5480)  
56618 001 LEC, 12:30-13:20 TTh, Borlaug Hall 491, In Person Term Based; Carol Ishimaru; 2 cr.  
56619 002 LAB, 13:30-15:30 TTh, Borlaug Hall 295, In Person Term Based; Deborah Samac; 2 cr.

### 8123 Research Ethics in Plant and Environmental Sciences

(S-N or Audit; Prereq: Enrolled in a plant/environmental grad research program)  
51075 001 LEC, 16:00-18:00 Th, Hodson Hall 495, In Person Term Based; Meets With: 001 SOIL 8123001 APSC 8123001 PBS 8123; Gail Kalli; 0.5 cr.

### 8200 Seminar

(A-F only; )  
47523 001 LEC, 14:30-16:00 M, Borlaug Hall 365, In Person Term Based; Chana Johnston; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49153 001 IND, In Person Term Based; Chana Johnston; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49246 001 IND, In Person Term Based; Chana Johnston; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49350 001 IND, In Person Term Based; Chana Johnston; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49459 001 IND, In Person Term Based; Chana Johnston; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49555 001 IND, In Person Term Based; Chana Johnston; 1-24 cr.

## Polish (PLSH)

### 3002 Intermediate Polish

(Student Option; Prereq: 3001 or equiv)  
66378 001 DIS, 18:10-21:30 W, Folwell Hall 10, In Person Term Based; Meets With: 001 PLSH 4104; Krystyna Borgen; 5 cr.

### 4104 Intermediate Polish

(Student Option; Prereq: 4103, [fourth sem course in another language or grad student])  
66379 001 LEC, 18:10-21:30 W, Folwell Hall 10, In Person Term Based; Meets With: 001 PLSH 3002; Krystyna Borgen; 3 cr.

## Political Science (POL)

### 1001 American Democracy in a Changing World

(Student Option; SOCS)  
69127 705 LEC, In Person Term Based; 4 cr.  
53053 001 LEC, 13:00-14:15 TTh, Anderson Hall 350, In Person Term Based; Andrew Karch; 4 cr.  
68940 703 LEC, In Person Term Based; Brian Mikel; 4 cr.  
68941 704 LEC, In Person Term Based; Brian Mikel; 4 cr.  
68840 701 LEC, In Person Term Based; Shaun Cooper; 4 cr.  
68839 700 LEC, In Person Term Based; Vicki Fellows; 4 cr.  
68841 702 LEC, In Person Term Based; Vicki Fellows; 4 cr.

### 1001H Honors Course: American Democracy in a Changing World

(A-F only; SOCS)  
59890 001 DIS, 14:30-15:45 TTh, Blegen Hall 205, In Person Term Based; Scott Abernathy; 4 cr.

### 1019 Indigenous Peoples: A Global

Perspective (A-F or Audit; GP)  
53818 001 LEC, In Person Term Based; Kyle Edwards; 3 cr.

### 1025 Global Politics

(Student Option; GP,SOCS)  
47102 001 LEC, 11:15-12:30 TTh, Anderson Hall 330, In Person Term Based; Ronald Krebs; 4 cr.

### 1054 Puzzles in World Politics

(Student Option; GP,SOCS)  
55483 001 LEC, 9:45-11:00 MW, Blegen Hall 10, In Person Term Based; Anoop Sarbahi; 4 cr.

### 1054H Honors: Puzzles in World Politics

(A-F only; Prereq: Honors student GP,SOCS)  
59891 001 DIS, 13:00-14:15 MW, Blegen Hall 210, In Person Term Based; Anoop Sarbahi; 4 cr.

### 1201 Political Ideas and Ideologies

(Student Option; CIV,HIS)  
53177 002 LEC, 13:00-14:15 TTh, Anderson Hall 250, In Person Term Based; Nancy Luxon; 4 cr.  
47047 001 LEC, 11:15-12:05 MWF, Anderson Hall 230, In Person Term Based; Kyle Edwards; 4 cr.

### 3070 Distinguished Undergraduate

Research Internship (A-F only; )  
68752 001 IND, In Person Term Based; Wendy Rahn; 2 cr.

### 3080 Faculty-Supervised Individual

Internships (A-F or Audit; Prereq: instr consent, dept consent)  
47046 001 FWK, In Person Term Based; Paul Soper; 3-13 cr.

### 3085 Quantitative Analysis in Political

Science (A-F or Audit; MATH)  
52337 001 LEC, 11:15-12:30 TTh, Hubert H. Humphrey Center 25, In Person Term Based; Joanne Miller; 4 cr.  
54658 002 DIS, 14:30-15:20 Th, Blegen Hall 440, In Person Term Based; Kyle Edwards; 4 cr.  
57092 003 DIS, 15:35-16:25 Th, Blegen Hall 455, In Person Term Based; Kyle Edwards; 4 cr.

### 3108H Honors Tutorial: Thesis Preparation and Political Science Inquiry

(A-F only; Prereq: Pol sci major, honors)  
58289 001 LEC, 13:00-15:25 W, Carlson School of Mgmt L-126, In Person Term Based; Kathryn Pearson; 3 cr.

### 3110H Honors Thesis Credits

(A-F only; Prereq: 3109, pol sci, honors, dept consent)  
47241 001 IND, In Person Term Based; Alexis Cuttance; 1-4 cr.

### 3235W Democracy and Citizenship

(Student Option; CIV,WI)  
58617 001 LEC, 9:05-9:55 MWF, Blegen Hall 130, In Person Term Based; Kyle Edwards; 3 cr.

### 3251W Power, Virtue and Vice: Ancient and Early Modern Political Theory

(Student Option; Prereq: 5251WI)  
67454 001 LEC, 16:00-17:15 TTh, Blegen Hall 235, In Person Term Based; Kyle Edwards; 3 cr.

### 3310 Topics in American Politics

(Student Option; )  
57628 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey Center 25, In Person Term Based; Daniel Kelliher; 3 cr.  
67456 002 LEC, 13:00-14:15 WF, Hubert H. Humphrey Center 184, In Person Term Based; Paul Soper; 3 cr.

### 3319 Education and the American Dream

(A-F or Audit; DSJ,SOCS)  
59894 001 LEC, 11:15-12:30 TTh, Blegen Hall 155, In Person Term Based; Scott Abernathy; 3 cr.

### 3321 Issues in American Public Policy

(Student Option; )  
56526 001 LEC, 14:30-15:45 TTh, Blegen Hall 150, In Person Term Based; Andrew Karch; 3 cr.

### 3327 Suburbs, Stadiums, and Scandals:

The Politics of American Cities (Student Option; Prereq: 1001, non-pol sci grad major or equiv or instr consent)  
59940 001 LEC, 9:45-11:00 MW, Blegen Hall 155, In Person Term Based; Robin Phinney; 3 cr.

### 3410 Topics in Comparative Politics

(Student Option; )  
57629 003 LEC, 9:45-11:00 F, Hanson Hall, Room 1-108, 9:45-11:00 M, Hanson Hall, Room 1-104, In Person Term Based; Kathleen Collins; 3 cr.

### 3479 Latin American Politics

(Student Option; GP)  
67457 001 LEC, 11:15-12:30 TTh, Blegen Hall 235, In Person Term Based; Lisa Hilbink; 3 cr.

### 3481H Governments and Markets

(A-F or Audit; Prereq: 1054 or instr consent)  
68256 001 LEC, 11:15-12:30 TTh, Blegen Hall 105, In Person Term Based; John Freeman; 4 cr.

### 3766 Political Psychology of Mass

Behavior (Student Option; SOCS)  
57630 001 LEC, 10:10-11:00 MWF, Blegen Hall 235, In Person Term Based; Kyle Edwards; 3 cr.

### 3769 Public Opinion and Voting Behavior

(Student Option; SOCS)  
67458 001 LEC, 9:05-9:55 MWF, Blegen Hall 120, In Person Term Based; Kyle Edwards; 3 cr.

### 3810 Topics in International Relations and

Foreign Policy (Student Option; )  
59896 001 LEC, 14:30-15:45 TTh, Blegen Hall 250, In Person Term Based; Ronald Krebs; 3 cr.

### 3835 International Relations

(Student Option; GP,SOCS)  
48752 001 LEC, 11:15-12:05 MWF, Blegen Hall 150, In Person Term Based; Kyle Edwards; 3 cr.

### 4275 Domination, Exclusion, and Justice:

Contemporary Political Thought (Student Option; Prereq: 1201 recommended)  
58290 001 LEC, 14:30-15:45 TTh, Blegen Hall 210, In Person Term Based; Nancy Luxon; 3 cr.

### 4280 Topics in Political Theory

(Student Option; )  
58292 003 LEC, 11:15-12:30 WF, Room TBA, In Person Term Based; Sergio Valverde; 3-4 cr.

### 4315W State Governments: Laboratories of

Democracy (Student Option; Prereq: 1001 or equiv, non-pol sci grad major or instr consentWI)  
67459 001 LEC, 9:45-11:00 TTh, Blegen Hall 125, In Person Term Based; Andrew Karch; 4 cr.

**4477 Struggles and Issues in the Middle East**

(Student Option; Prereq: 1054 or 3051 or non-pol sci grad or instr consent)  
67460 001 LEC, 16:00-17:15 TTh, Hanson Hall, Room 1-106, In Person Term Based; Meets With: 001 PA 5851; Sarah Parkinson; 4 cr.

**4478W Contemporary Politics in Africa and the Colonial Legacy**

(Student Option; Prereq: 1054 or 3051 or non-pol sci grad or instr consent(GP,WI))  
67461 001 LEC, 18:20-20:50 Th, Blegen Hall 120, In Person Term Based; August Nimtz Jr; 4 cr.

**4487 The Struggle for Democratization and Citizenship**

(Student Option; )  
53170 001 LEC, 18:20-20:50 T, Blegen Hall 210, In Person Term Based; August Nimtz Jr; 4 cr.

**4492 Law and (In)Justice in Latin America**

(A-F or Audit; )  
67462 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey Center 25, In Person Term Based; Lisa Hilbink; 3 cr.

**4495 Politics of Family, Sex, and Children**

(A-F or Audit; DSJ)  
57950 001 LEC, 13:00-14:15 TTh, Blegen Hall 120, In Person Term Based; Daniel Kelliher; 3 cr.

**4502W The Supreme Court, Civil Liberties, and Civil Rights**

(Student Option; CIV,WI)  
47100 001 LEC, 8:15- 9:30 TTh, Blegen Hall 120, In Person Term Based; Timothy Johnson; 3 cr.

**4507 Law, Sovereignty, and Treaty Rights**

(Student Option; )  
60934 001 LEC, 13:00-14:15 TTh, Wulling Hall 240, In Person Term Based; Meets With: 001 AMIN 4501; David Wilkins; 3 cr.

**4525W Federal Indian Policy**

(Student Option; WI)  
60935 001 LEC, 14:30-17:00 M, Rapson Hall 54, In Person Term Based; Meets With: 001 AMIN 4525W; David Wilkins; 3 cr.

**4737W American Political Parties**

(Student Option; Prereq: 1001 or equiv or instr consent(WI))  
67463 001 LEC, 11:15-12:30 MW, Blegen Hall 235, In Person Term Based; Paul Goren; 4 cr.

**4766 America, the Unusual?: American Political Culture in Comparative Context**

(Student Option; Prereq: suggested 1001 or equiv(CIV))  
67464 001 LEC, 16:00-17:15 TTh, Blegen Hall 330, In Person Term Based; Wendy Rahn; 3 cr.

**4773W Advocacy Organizations, Social Movements, and the Politics of Identity**

(Student Option; DSJ,WI)  
67465 001 LEC, 11:15-12:30 MW, Blegen Hall 130, In Person Term Based; Robin Phinney; 3 cr.

**4810 Topics in International Politics and Foreign Policy**

(Student Option; )  
59946 001 LEC, In Person Term Based; 3 cr.

**4887 Thinking Strategically in International Politics**

(A-F or Audit; MATH)  
67466 001 LEC, 13:00-14:15 MW, Blegen Hall 240, In Person Term Based; Kyle Edwards; 3 cr.

**4900V Honors: Senior Paper**

(A-F or Audit; Prereq: Honors, pol sr, instr consent)  
49971 001 LEC, In Person Term Based; Kyle Edwards; 1 cr.

**4900W Senior Paper**

(A-F or Audit; Prereq: Pol sr, instr consent(WI))  
48952 001 LEC, In Person Term Based; Angeline Fugelso; 1 cr.

**4970 Individual Reading and Research**

(Student Option; Prereq instr consent, dept consent, college consent.)  
49014 001 IND, In Person Term Based; Kyle Edwards; 1-4 cr.

**8060 Research Proseminar in Political Science**

(S-N only; Prereq: Pol sci grad student)  
59114 002 LEC, 11:15-12:45 T, Social Sciences Building 1183, In Person Term Based; Meets With: 001 SOC 8090; Joachim Savelsberg; 2 cr.  
57081 001 LEC, 11:45-13:00 W, Carlson School of Mgmt 1-136, In Person Term Based; David Samuels; 2 cr.

**8104 Professional Development I**

(S-N only; Prereq: 1st year Pol graduate student)  
68073 001 LEC, 13:30-15:30 F, Social Sciences Building 1383, In Person Term Based; Paul Goren; 2 cr.

**8107 Quantitative Political Science II**

(A-F only; Prereq: Political science grad major or instr consent)  
57932 001 LEC, 10:00-12:20 T, Social Sciences Building 1383, In Person Term Based; Christopher Federico; 3 cr.

**8125 Dynamic Analysis**

(Student Option; Prereq: Pol sci grad student or instr consent)  
67467 001 LEC, 11:00-12:55 F, Hubert H. Humphrey Center 20, In Person Term Based; John Freeman; 3 cr.

**8160 Topics in Models and Methods**

(Student Option; )  
57907 002 LEC, In Person Term Based; 3 cr.

**8201 Understanding Political Theory**

(Student Option; Prereq: Grad student or instr consent)  
67468 001 DIS, 15:35-17:20 T, Social Sciences Building 1383, In Person Term Based; Joan Tronto; 3 cr.

**8308 Proseminar in Political Psychology II**

(S-N or Audit; Prereq: Grad pol sci major or pol psych minor or instr consent)  
47101 001 LEC, 10:00-12:00 F, Social Sciences Building 1314, In Person Term Based; Meets With: 001 PSY 8212; Howard Lavine; 2 cr.

**8360 Topics in American Politics**

(Student Option; Prereq: Grad pol sci major or instr consent)  
67469 001 LEC, 11:00-12:55 W, Social Sciences Building 1383, In Person Term Based; Howard Lavine; 3 cr.  
67470 002 LEC, 13:25-15:20 Th, Social Sciences Building 1383, In Person Term Based; Kathryn Pearson; 3 cr.

**8404 International Hierarchy**

(Student Option; Prereq: Grad pol sci major or instr consent)  
67471 001 LEC, 15:35-17:20 Th, Social Sciences Building 1383, In Person Term Based; Raymond Duvall; 3 cr.

**8405 International Political Economy**

(A-F or Audit; Prereq: Grad pol sci major or instr consent)  
67472 001 LEC, In Person Term Based; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49247 001 IND, In Person Term Based; Kyle Edwards; 1 cr.

**8660 Topics in Comparative Politics**

(Student Option; )  
59954 001 LEC, 13:25-15:20 T, Social Sciences Building 1383, In Person Term Based; Lisa Hilbink; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral, up to 24 combined cr, permission number required for registration, doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49351 001 IND, In Person Term Based; Kyle Edwards; 1-6 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49556 001 IND, In Person Term Based; Kyle Edwards; 1-24 cr.

**8990 Directed Readings and Research in Political Science**

(Student Option; Prereq: 16 cr 8xxx pol sci courses, instr consent, dept consent)  
47219 001 IND, In Person Term Based; 1-7 cr.

**Portuguese (PORT)****1102 Beginning Portuguese**

(Student Option; Prereq: 1101 or instr consent)  
48750 001 LEC, 9:05- 9:55 MTWTh, Folwell Hall 104, In Person Term Based; ; 5 cr.

**1104 Intermediate Portuguese**

(Student Option; Prereq: 1103 or instr consent)  
47780 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 PORT 4104; 5 cr.

**1904 Freshman Seminar**

(Student Option; Prereq: FrGP)  
67781 001 LEC, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Sophia Beal; 3 cr.

**3001 Portuguese for Spanish Speakers**

(Student Option; Prereq: [SPAN 1004 or SPAN 1014 or SPAN 1044, SPAN LPE pass] or instr consent)  
51495 002 LEC, 18:00-19:55 MW, Folwell Hall 104, In Person Term Based; 4 cr.  
57934 003 LEC, 14:30-16:25 TTh, Folwell Hall 106, In Person Term Based; 4 cr.  
47296 001 LEC, 10:10-12:05 MW, Nicholson Hall 120, In Person Term Based; 4 cr.

**3003 Portuguese Conversation and Composition**

(Student Option; Prereq: 1104 or 3001 or Port LPE)  
47297 001 DIS, 12:20-14:15 TTh, Folwell Hall 13, In Person Term Based; 4 cr.

**3502W Global Portuguese: 1900-present**

(Student Option; Prereq: 3003WI)  
57937 001 LEC, 11:15-12:30 TTh, Folwell Hall 28, In Person Term Based; Sophia Beal; 3 cr.

**3910 Topics in Lusophone Literatures**

(Student Option; Prereq: 3003)  
60761 001 LEC, 13:00-14:15 MW, Folwell Hall 5, In Person Term Based; Ana Paula Ferreira; 3 cr.

**4102 Beginning Portuguese**

(Student Option; Prereq: Grad student)  
55646 001 DIS, 9:05- 9:55 MTWThF, Room TBA, In Person Term Based; 2 cr.

**4104 Intermediate Portuguese**

(Student Option; Prereq: Grad student)  
55180 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 PORT 1104; 2 cr.

**5910 Topics in Lusophone Cultures and Literatures**

(Student Option; )  
58538 001 LEC, 14:30-17:30 M, Folwell Hall 4, In Person Term Based; Ana Paula Ferreira; 3 cr.

**5990 Directed Research**

(Student Option; Prereq: Grad student or instr consent.)  
53485 001 IND, In Person Term Based; Ana Paula Ferreira; 1-4 cr.  
53486 002 IND, In Person Term Based; Sophia Beal; 1-4 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49154 001 IND, In Person Term Based; 1 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49460 001 IND, In Person Term Based; 1-18 cr.

**Postsecondary Tchg and Lrng (PSTL)****722 Introductory Algebra (Computer)**

(Student Option; Prereq: [4 cr equiv], General Math Placement Test)  
55054 002 LEC, 8:00- 9:55 TTh, Appleby Hall 302, In Person Term Based; Meets With: 002 PSTL 732002 PSTL 1571; Douglas Robertson; 0 cr.  
54571 001 LEC, 10:10-12:05 MW, Appleby Hall 302, In Person Term Based; Meets With: 001 PSTL 732001 PSTL 1571; Douglas Robertson; 0 cr.  
56387 003 LEC, 12:20-14:15 TTh, Appleby Hall 302, In Person Term Based; Meets With: 003 PSTL 732003 PSTL 1571; Douglas Robertson; 0 cr.  
57829 004 LEC, Completely Online; Douglas Robertson; 0 cr.

**732 Intermediate Algebra (Computer)**

**(Student Option; Prereq: 4 cr equiv or grade of at least C in [0713 or 0717 or 0721 or 0722] or General Math Placement Test)**

54572 001 LEC, 10:10-12:05 MW, Appleby Hall 302, In Person Term Based; Meets With: 001 PSTL 722001 PSTL 1571; Douglas Robertson; 0 cr.  
54573 002 LEC, 8:00- 9:55 TTh, Appleby Hall 302, In Person Term Based; Meets With: 002 PSTL 722002 PSTL 1571; Douglas Robertson; 0 cr.  
56388 003 LEC, 12:20-14:15 TTh, Appleby Hall 302, In Person Term Based; Meets With: 003 PSTL 722003 PSTL 1571; Douglas Robertson; 0 cr.  
57830 004 LEC, Completely Online; Douglas Robertson; 0 cr.

### 1004 Statistics: Understanding and

#### Applying Data

**(Student Option; MATH)**

56401 003 LEC, 13:25-15:20 MW, Appleby Hall 128, In Person Term Based; Irene Duranczyk; 4 cr.  
67598 004 LEC, 10:10-12:05 TTh, Appleby Hall 302, In Person Term Based; Suzanne Loch; 4 cr.  
55312 002 LEC, 11:15-13:10 MW, Appleby Hall 128, In Person Term Based; Suzanne Loch; 4 cr.  
46662 001 LEC, 9:05-11:00 MW, Appleby Hall 128, In Person Term Based; Suzanne Loch; 4 cr.  
55416 B09 LEC, Online & Distance Lrng (ODL); Suzanne Loch; 4 cr.  
55417 C09 LEC, Online & Distance Lrng (ODL); Suzanne Loch; 4 cr.  
55418 D09 LEC, Online & Distance Lrng (ODL); Suzanne Loch; 4 cr.  
55419 E09 LEC, Online & Distance Lrng (ODL); Suzanne Loch; 4 cr.

### 1006 College Algebra through Modeling

**(Student Option; Prereq: Three yrs high school math or grade of at least C+ in 0731 or 0732 or placement test score or instr consentMATH)**

54761 003 LEC, 13:00-14:15 TTh, Appleby Hall 227, In Person Term Based; Janet Stottlemeyer; 3 cr.  
54760 002 LEC, 11:15-12:30 MW, Appleby Hall 226, In Person Term Based; Susan Staats; 3 cr.  
69133 700 LEC, In Person Term Based; Theresa Gieschen; 3 cr.  
54759 001 LEC, 9:45-11:00 MW, Wulling Hall 220, In Person Term Based; Susan Staats; 3 cr.

### 1081 Integrated Learning in the Social Sciences

**(A-F only; Prereq: Concurrent registration in social science course, adviser approval)**

50566 001 LEC, 14:30-15:20 MW, Burton Hall 125, In Person Term Based; Witsinee Bovornusvakoool; 2 cr.

### 1082 Integrated Learning in the Sciences

**(A-F only; Prereq: Concurrent registration in science course, adviser approval)**

58795 002 LEC, 13:25-14:15 TTh, Folwell Hall 112, In Person Term Based; Laura Fox; 2 cr.  
54613 001 LEC, 12:20-13:10 TTh, Folwell Hall 32, In Person Term Based; Laura Fox; 2 cr.

### 1131 Principles of Biological Science

**(Student Option; BIOL)**

54577 003 LAB, 12:20-14:15 T, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
54580 007 LAB, 12:20-14:15 W, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
54578 004 LAB, 14:30-16:25 T, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
55270 009 LAB, 8:00- 9:55 F, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
55268 005 LAB, 8:00- 9:55 W, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
54579 006 LAB, 10:10-12:05 W, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
55271 010 LAB, 10:10-12:05 F, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
55269 008 LAB, 10:10-12:05 Th, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
54576 002 LAB, 10:10-12:05 T, Appleby Hall 309, In Person Term Based; Jay Hatch; 4 cr.  
54575 001 LEC, 8:15- 9:30 TTh, Bruininks Hall 114, In Person Term Based; Jay Hatch; 4 cr.  
58706 013 LAB, 12:20-14:15 F, Appleby Hall 309, In Person Term Based; Katherine Phillips; 4 cr.  
58705 012 LAB, 12:20-14:15 Th, Appleby Hall 309, In Person Term Based; Katherine Phillips; 4 cr.  
58704 011 LEC, 14:30-15:45 TTh, Wulling Hall 220, In Person Term Based; Katherine Phillips; 4 cr.

### 1135 Essentials of Human Anatomy and Physiology

**(Student Option; BIOL)**

69108 700 LEC, In Person Term Based; Michael Harris; 4 cr.  
67846 008 LAB, 8:00- 9:55 F, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67847 009 LAB, 10:10-12:05 F, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67845 007 LAB, 10:10-12:05 Th, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67842 004 LAB, 10:10-12:05 W, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67840 002 LAB, 10:10-12:05 T, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67843 005 LAB, 12:20-14:15 W, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67844 006 LAB, 14:30-16:25 W, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67841 003 LAB, 14:30-16:25 T, Appleby Hall 311, In Person Term Based; Murray Jensen; 4 cr.  
67839 001 LEC, 13:00-14:15 TTh, Bruininks Hall 312, In Person Term Based; Murray Jensen; 4 cr.

### 1163 Physics by Inquiry

**(Student Option; PHYS)**

60182 002 LAB, 14:30-16:25 TTh, Bruininks Hall 131B, In Person Term Based; Miranda Straub; 4 cr.  
54047 001 LAB, 14:30-16:25 MW, Bruininks Hall 131B, In Person Term Based; Miranda Straub; 4 cr.

### 1204 Ways of Knowing in the Social Sciences

**(A-F or Audit; DSJ,SOCS)**

57854 001 LEC, 10:10-12:05 TTh, Bruininks Hall 432A, In Person Term Based; Michael Stebleton; 4 cr.

### 1211 Sociological Perspectives: A

**Multicultural America**

**(Student Option; DSJ,SOCS)**

46608 001 LEC, 9:05-11:00 MW, Bruininks Hall 432A, In Person Term Based; Margaret Kelly; 4 cr.

### 1231 America's Past and Present:

**Multicultural Perspectives**

**(Student Option; DSJ,HIS)**

60190 004 LEC, 9:05-11:00 TTh, Burton Hall 120, In Person Term Based; Jason Stahl; 4 cr.  
56485 003 LEC, 12:20-14:15 MW, Nicholson Hall 115, In Person Term Based; Jason Stahl; 4 cr.  
60189 002 LEC, 10:10-12:05 MW, Appleby Hall 103, In Person Term Based; Robert Poch; 4 cr.  
47383 001 LEC, 9:05-11:00 MW, Nicholson Hall 115, In Person Term Based; Jennifer Franko; 4 cr.

### 1246 Multicultural Contexts: Engaging Citizenship and Democracy

**(Student Option; CIV,SOCS)**

54581 001 LEC, 14:30-15:45 MW, Peik Hall 335, In Person Term Based; Gary Peter; 3 cr.

### 1251 Forces of Modern Historical Change: Global Perspectives

**(Student Option; GP,HIS)**

55282 002 LEC, 12:20-14:15 TTh, Bruininks Hall 432A, In Person Term Based; David Arendale; 4 cr.  
54164 001 LEC, 10:10-12:05 TTh, Bruininks Hall 432B, In Person Term Based; David Arendale; 4 cr.

### 1281 Principles of Psychology

**(Student Option; Prereq: Have not received college credit for intro psychSOCS)**

55284 002 LAB, 10:10-11:00 TTh, Appleby Hall 128, In Person Term Based; Janet Stottlemeyer; 4 cr.  
55285 003 LAB, 11:15-12:05 TTh, Appleby Hall 128, In Person Term Based; Janet Stottlemeyer; 4 cr.  
55283 001 LEC, 11:15-12:05 MW, Mechanical Engineering 108, In Person Term Based; Janet Stottlemeyer; 4 cr.  
60183 006 LEC, 8:00- 9:55 TTh, Bruininks Hall 131B, In Person Term Based; Tabitha Grier-Reed; 4 cr.  
60184 007 LEC, 12:20-14:15 TTh, Bruininks Hall 131B, In Person Term Based; Tabitha Grier-Reed; 4 cr.

### 1312 Creating Identities Through Art and Performance

**(Student Option; AH)**

54624 003 LEC, 13:25-15:20 MW, Appleby Hall 201, In Person Term Based; Heather Dorsey; 4 cr.  
54593 002 LEC, 11:15-13:10 MW, Appleby Hall 201, In Person Term Based; Linda Buturian; 4 cr.  
53043 001 LEC, 9:05-11:00 MW, Appleby Hall 201, In Person Term Based; Linda Buturian; 4 cr.  
56405 004 LEC, 11:15-13:10 TTh, Appleby Hall 201, In Person Term Based; Tina Frederickson; 4 cr.

### 1366 Stories of Self and Community: Multicultural Perspectives

**(Student Option; DSJ,LITR)**

54594 002 LEC, In Person Term Based; 3 cr.  
54763 003 LEC, 11:15-12:30 TTh, Bruininks Hall 420B, In Person Term Based; Molly Rojas Collins; 3 cr.  
54134 001 LEC, 9:45-11:00 MW, Bruininks Hall 432B, In Person Term Based; Molly Rojas Collins; 3 cr.  
60594 B02 LEC, Online & Distance Lrng (ODL); Molly Rojas Collins; 3 cr.  
60595 C02 LEC, Online & Distance Lrng (ODL); Molly Rojas Collins; 3 cr.  
60596 D02 LEC, Online & Distance Lrng (ODL); Molly Rojas Collins; 3 cr.  
60597 E02 LEC, Online & Distance Lrng (ODL); Molly Rojas Collins; 3 cr.

### 1368 Stories of Social Change: Global Perspectives

**(Student Option; GP,LITR)**

60843 005 LEC, 13:00-14:15 TTh, Appleby Hall 103, In Person Term Based; K.C. Harrison; 3 cr.  
60186 004 LEC, 11:15-12:30 TTh, Appleby Hall 219, In Person Term Based; K.C. Harrison; 3 cr.  
67601 006 LEC, Completely Online; Linda Buturian; 3 cr.  
54617 001 LEC, 11:15-12:30 MW, Bruininks Hall 432B, In Person Term Based; Rashne Jehangir; 3 cr.  
54618 002 LEC, 13:00-14:15 MW, Bruininks Hall 432B, In Person Term Based; Rashne Jehangir; 3 cr.  
56406 003 LEC, 13:00-14:15 MW, Wulling Hall 220, In Person Term Based; Barbara Hodne; 3 cr.  
67602 007 LEC, Completely Online; Jennifer Franko; 3 cr.

### 1461 Multicultural Perspectives in Public Speaking

**(Student Option; CIV)**

53045 005 DIS, In Person Term Based; 3 cr.  
55288 008 DIS, 11:15-12:30 TTh, Peik Hall 335, In Person Term Based; Heather Dorsey; 3 cr.  
58059 009 DIS, 13:00-14:15 TTh, Peik Hall 335, In Person Term Based; Heather Dorsey; 3 cr.  
51214 001 DIS, 8:00- 8:50 MWF, Peik Hall 335, In Person Term Based; Jill Trites; 3 cr.  
51215 002 DIS, 9:05- 9:55 MWF, Appleby Hall 226, In Person Term Based; Jill Trites; 3 cr.  
53364 006 DIS, 8:15- 9:30 TTh, Appleby Hall 201, In Person Term Based; Margaret Kelly; 3 cr.  
55287 007 DIS, 9:45-11:00 TTh, Appleby Hall 201, In Person Term Based; Margaret Kelly; 3 cr.  
57853 004 DIS, 11:15-12:30 MW, Appleby Hall 219, In Person Term Based; Tina Frederickson; 3 cr.  
51216 003 DIS, 9:45-11:00 MW, Peik Hall 335, In Person Term Based; Tina Frederickson; 3 cr.

### 1571 Computer Literacy and Problem Solving

**(Student Option; )**

55055 002 LAB, 8:00- 9:55 TTh, Appleby Hall 302, In Person Term Based; Meets With: 002 PSTL 732002 PSTL 722; Douglas Robertson; 4 cr.  
54574 001 LAB, 10:10-12:05 MW, Appleby Hall 302, In Person Term Based; Meets With: 001 PSTL 722001 PSTL 732; Douglas Robertson; 4 cr.  
57833 003 LAB, 12:20-14:15 TTh, Appleby Hall 302, In Person Term Based; Meets With: 003 PSTL 722003 PSTL 732; Douglas Robertson; 4 cr.  
58707 004 LAB, Primarily Online; Douglas Robertson; 4 cr.

### 1907W Freshman Seminar: Diversity and Social Justice in the United States

**(Student Option; Prereq: FrDSJ,WI)**

67640 001 LEC, 14:30-15:45 MW, Appleby Hall 223, In Person Term Based; Jennifer Franko; 3 cr.

### 1908W Freshman Seminar: Civic Life and Ethics

**(Student Option; Prereq: FrCIV,WI)**

67639 001 LEC, 13:00-14:15 MW, Appleby Hall 223, In Person Term Based; Jennifer Franko; 3 cr.

### 1942 Freshman Seminar: Technology and Society

**(Student Option; Prereq: FrTS)**

67638 001 LEC, 11:15-12:30 TTh, Bruininks Hall 131A, In Person Term Based; Jennifer Franko; 3 cr.

### 1990 Special Topics

**(Student Option; Prereq instr consent, college consent.)**

48777 001 FWK, In Person Term Based; 1-8 cr.  
48778 002 FWK, In Person Term Based; 1-8 cr.  
48779 003 FWK, In Person Term Based; 1-8 cr.  
48780 004 FWK, In Person Term Based; 1-8 cr.  
48781 005 FWK, In Person Term Based; 1-8 cr.  
48782 006 FWK, In Person Term Based; 1-8 cr.

**1993 Directed Study****(Student Option; Prereq instr consent, college consent.)**

47937 003 IND, In Person Term Based; 1-8 cr.  
 47938 004 IND, In Person Term Based; 1-8 cr.  
 47939 005 IND, In Person Term Based; 1-8 cr.  
 47940 006 IND, In Person Term Based; 1-8 cr.  
 47935 001 IND, In Person Term Based; ; 1-8 cr.  
 47936 002 IND, In Person Term Based; ; 1-8 cr.

**1996 Internship****(Student Option; Prereq instr consent, college consent.)**

48784 002 FWK, In Person Term Based; 1-8 cr.  
 48785 003 FWK, In Person Term Based; 1-8 cr.  
 48786 004 FWK, In Person Term Based; 1-8 cr.  
 48787 005 FWK, In Person Term Based; 1-8 cr.  
 48788 006 FWK, In Person Term Based; 1-8 cr.  
 48783 001 FWK, In Person Term Based; 1-8 cr.

**3324W Writing in the Workplace for Education and Human Development Majors****(Student Option; Prereq: 60+ undergraduate credits, declared majorWI)**

58796 002 DIS, 9:05-11:00 TTh, Bruininks Hall 420A, In Person Term Based; Barbara Hodne; 4 cr.  
 58572 001 DIS, 10:10-12:05 MW, Appleby Hall 11, In Person Term Based; Kris Cory; 4 cr.

**3325V Honors: Project-Based Writing For Education and Human Development Majors****(A-F only; Prereq: CEHD Honors students onlyWI)**

58573 001 DIS, In Person Term Based; Meets With: 001 PSTL 3325V; 4 cr.  
 58797 002 DIS, In Person Term Based; Meets With: 002 PSTL 3325V; 4 cr.

**3325W Project-Based Writing For Education and Human Development Majors****(Student Option; Prereq: 60+ undergraduate credits, declared majorWI)**

58574 001 DIS, In Person Term Based; Meets With: 001 PSTL 3325V; 4 cr.  
 58798 002 DIS, In Person Term Based; Meets With: 002 PSTL 3325V; 4 cr.

**5105 Increasing Access and Success in Undergraduate Classrooms****(A-F or Audit; )**

67604 001 LEC, Completely Online; Irene Duranczyk; 3 cr.

**5196 Supervised Practicum in Multicultural Postsecondary Teaching and Learning****(S-N only; Prereq: Grad student in PsTL certificate program or admitted to PsTL master's program)**

58552 001 FWK, 16:40-18:20 T, Bruininks Hall 530B, In Person Term Based; Michael Stebleton; 3 cr.

**5206 Action Research Methods to Improve College Teaching and Learning****(A-F or Audit; Prereq: Grad student)**

57834 001 LEC, 16:40-19:20 W, Bruininks Hall 420A, In Person Term Based; Tania Mitchell; 3 cr.

**8333 FTE: Master's****(No Grade Associated; Prereq: Master's student, adviser consent, DGS consent)**

67641 001 IND, In Person Term Based; 1 cr.

**8777 Thesis Credits: Master's****(No Grade Associated; )**

58613 001 IND, In Person Term Based; 1-18 cr.

**Preventive Science Minor (PREV)****8001 Prevention Science Core****(Student Option No Audit; )**

55628 001 LEC, 13:00-14:30 W, Carlson School of Mgmt 1-122, In Person Term Based; Abigail Gewirtz; 3 cr.

**Product Design (PDES)****3702 Concept Sketching and Rendering****(A-F only; )**

69042 001 LEC, 14:30-17:15 W, Bruininks Hall 512B, In Person Term Based; Cory Schaffhausen; 3 cr.

**3704 Innovative Computer Modeling and Rendering for Design****(A-F only; )**

69034 002 LAB, In Person Term Based; 3 cr.  
 59286 001 LAB, 18:15-21:00 T, McNeal Hall 305, In Person Term Based; Meets With: 001 PDES 5704; ; 3 cr.

**3705 History and Future of Product Design****(A-F only; )**

65582 001 LEC, 13:30-14:45 TTh, McNeal Hall 250, In Person Term Based; Meets With: 001 PDES 5705; Julie Hillman; 3 cr.

**3711 Toy Product Design****(A-F only; )**

65585 003 LAB, 9:00-12:00 Th, No Room Required, In Person Term Based; ; 4 cr.  
 57071 002 LAB, 18:00-21:00 Th, Bruininks Hall 312, In Person Term Based; Meets With: 002 PDES 5711; ; 4 cr.  
 57067 001 LEC, 18:00-19:30 MW, Bruininks Hall 114, In Person Term Based; Meets With: 001 PDES 5711; Barry Kudrowitz; 4 cr.

**5193 Directed Study in Product Design****(A-F or Audit; Prereq: Grad, instr consent)**

68143 001 IND, In Person Term Based; Barry Kudrowitz; 1-4 cr.

**5704 Innovative Computer Modeling and Rendering for Design****(A-F only; Prereq: Senior or grad student)**

59287 001 LAB, 18:15-21:00 T, McNeal Hall 305, In Person Term Based; Meets With: 001 PDES 3704; ; 3 cr.

**5705 History and Future of Product Design****(A-F only; )**

65594 001 LEC, 13:30-14:45 TTh, McNeal Hall 250, In Person Term Based; Meets With: 001 PDES 3705; Julie Hillman; 3 cr.

**5711 Toy Product Design****(A-F only; )**

57070 003 LAB, 9:00-12:00 Th, No Room Required, In Person Term Based; ; 4 cr.  
 57069 002 LAB, 18:00-21:00 Th, Bruininks Hall 312, In Person Term Based; Meets With: 002 PDES 3711; ; 4 cr.  
 57068 001 LEC, 18:00-19:30 MW, Bruininks Hall 114, In Person Term Based; Meets With: 001 PDES 3711; Barry Kudrowitz; 4 cr.

**8192 Readings in Product Design****(A-F or Audit; Prereq: Grad, instr consent)**

58360 001 IND, In Person Term Based; Barry Kudrowitz; 1-3 cr.

**8193 Directed Study in Product Design****(A-F or Audit; Prereq: Grad, instr consent)**

58361 001 IND, In Person Term Based; Barry Kudrowitz; 1-4 cr.

**Prosthodontics (PROS)****7110 Classic Prosthodontic Literature Review****(A-F or Audit; Prereq: instr consent)**

49742 001 LEC, In Person Term Based; Jessica Andersen; 2 cr.

**7200 Advanced Clinical Prosthodontics I****(A-F or Audit; Prereq: instr consent)**

49743 001 FWK, In Person Term Based; Jessica Andersen; 5 cr.

**Psychology (PSY)****1001 Introduction to Psychology****(Student Option; SOCS)**

68881 703 LEC, In Person Term Based; Callie Jacobs; 4 cr.  
 69109 704 LEC, In Person Term Based; Nathan Hawker; 4 cr.  
 68843 701 LEC, In Person Term Based; Ryan Douds; 4 cr.  
 68844 702 LEC, In Person Term Based; Ryan Douds; 4 cr.  
 68842 700 LEC, In Person Term Based; Susan Knutson; 4 cr.  
 47067 015 DIS, 13:25-14:15 Th, Bruininks Hall 530B, In Person Term Based; Thomas Brothen; 4 cr.  
 47068 016 LEC, Partially Online; Thomas Brothen; 4 cr.  
 56870 019 DIS, 11:15-12:30 F, Bruininks Hall 530B, Partially Online; Thomas Brothen; 4 cr.

56871 020 DIS, 13:00-14:15 F, Bruininks Hall 530B, Partially Online; Thomas Brothen; 4 cr.  
 47066 014 DIS, 11:15-12:05 Th, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47064 012 DIS, 12:20-13:10 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47059 007 DIS, 15:35-16:25 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47060 008 DIS, 8:00- 8:50 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47062 010 DIS, 10:10-11:00 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47063 011 DIS, 11:15-12:05 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47058 006 DIS, 14:30-15:20 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47061 009 DIS, 9:05- 9:55 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47065 013 DIS, 14:30-15:20 W, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47056 004 DIS, 12:20-13:10 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47057 005 DIS, 13:25-14:15 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47054 002 DIS, 10:10-11:00 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 47055 003 DIS, 11:15-12:05 T, Bruininks Hall 530B, In Person Term Based; Kathleen Briggs; 4 cr.  
 59163 021 LEC, Completely Online; Kathleen Briggs; 4 cr.  
 52928 017 DIS, 11:15-12:30 Th, Bruininks Hall 512A, Partially Online; Kathleen Briggs; 4 cr.  
 52929 018 DIS, 13:00-14:15 Th, Bruininks Hall 512B, Partially Online; Kathleen Briggs; 4 cr.  
 47053 001 LEC, 13:25-14:15 MWF, Willey Hall 175, In Person Term Based; Thomas Brothen; 4 cr.

**1001H Honors Introduction to Psychology****(A-F only; Prereq: Honors.SOCS)**

55323 002 DIS, 11:15-12:05 WF, Bruininks Hall 512A, Partially Online; Thomas Brothen; 4 cr.  
 53733 001 LEC, 10:10-11:00 WF, Bruininks Hall 512A, Partially Online; Kathleen Briggs; 4 cr.

**1905 Freshman Seminar****(A-F or Audit; Prereq: Fr)**

68420 001 LEC, 12:30-15:00 Th, Elliott Hall S204, In Person Term Based; Stephen Engel; 3 cr.

**3001V Honors Introduction to Research Methods****(A-F only; Prereq: [1001, [2081/3801 or equiv]]or dept consent, PSY major, honors studentWI)**

54093 001 LEC, 9:05-11:00 MW, Peik Hall 165, In Person Term Based; Penny Nichol; 4 cr.

**3001W Introduction to Research Methods****(Student Option; Prereq: [1001, [2801 or 3801 or equiv]] or dept consentWI)**

68360 014 LEC, Completely Online; Penny Nichol; 4 cr.  
 53558 001 LEC, 10:10-11:00 MW, Mayo Bldg & Additions Auditori, In Person Term Based; Mark Stellmack; 4 cr.  
 53563 006 LAB, 9:00-10:45 Th, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.  
 68358 012 LAB, 11:00-12:45 F, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.  
 53565 008 LAB, 11:00-12:45 Th, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.  
 53561 004 LAB, 15:00-16:45 W, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.  
 68359 013 LAB, 9:00-10:45 F, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 53564 007 LAB, 9:00-10:45 Th, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 53566 009 LAB, 11:00-12:45 Th, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 55908 011 LAB, 13:00-14:45 Th, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 53560 003 LAB, 13:00-14:45 W, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 53562 005 LAB, 15:00-16:45 W, Elliott Hall S160, In Person Term Based; Mark Stellmack; 4 cr.  
 53567 010 LAB, 13:00-14:45 Th, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.  
 53559 002 LAB, 13:00-14:45 W, Elliott Hall S150, In Person Term Based; Mark Stellmack; 4 cr.

**3031 Introduction to Sensation and Perception****(Student Option; Prereq: PSY 1001)**

56943 002 LAB, 13:25-14:15 Th, Bruininks Hall 512A, Partially Online; Cheryl Olman; 3 cr.  
 57033 003 LAB, 14:30-15:20 Th, Bruininks Hall 512A, Partially Online; Cheryl Olman; 3 cr.  
 57034 004 LAB, 15:35-16:25 Th, Bruininks Hall 512A, Partially Online; Cheryl Olman; 3 cr.

47086 001 LEC, Partially Online; Cheryl Olman; 3 cr.

**3051 Introduction to Cognitive Psychology**  
(Student Option; Prereq: 1001)

47093 001 LEC, 9:45-11:00 TTh, Elliott Hall N119, In Person Term Based; Rachel Goeller; 3 cr.

**3061 Introduction to Biological Psychology**  
(Student Option; Prereq: 1001 or BIOL 1009 or NSci 1100 prereq: 1001 or BIOL 1009 or NSci 1100)

49433 001 LEC, 8:15- 9:30 MW, Nicholson Hall 155, In Person Term Based; Rachel Goeller; 3 cr.

**3101 Introduction to Personality**  
(Student Option; Prereq: 1001)

47094 001 LEC, 16:00-17:15 MW, Bruininks Hall 412, In Person Term Based; Rachel Goeller; 3 cr.

**3121 History and Systems of Psychology**  
(Student Option; Prereq: PSY 1001)

56548 001 LEC, Primarily Online; Thomas Brothen; 3 cr.

**3135 Introduction to Individual Differences**  
(Student Option; Prereq: [1001, [3801 or equiv]] or instr consent)

47095 001 LEC, 16:00-17:15 TTh, Peik Hall 28, In Person Term Based; Rachel Goeller; 3 cr.

**3201 Introduction to Social Psychology**  
(Student Option; Prereq: 1001 or instr consent)

47096 001 LEC, 11:15-12:05 MWF, Bell Museum Auditorium, In Person Term Based; Rachel Goeller; 3 cr.

**3206 Introduction to Health Psychology**  
(Student Option; Prereq: 1001)

57785 001 LEC, 14:30-15:45 TTh, Bell Museum Auditorium, In Person Term Based; Traci Mann; 3 cr.

**3301 Introduction to Cultural Psychology**  
(A-F or Audit; Prereq: 1001)

48405 001 LEC, 16:00-17:15 TTh, Elliott Hall N119, In Person Term Based; Rachel Goeller; 3 cr.

**3511 Introduction to Counseling Psychology**  
(Student Option; Prereq: 1001)

55753 002 LEC, 8:15- 9:30 MW, Bruininks Hall 131A, In Person Term Based; Rachel Goeller; 3 cr.  
52948 003 LEC, 18:00-20:30 W, Nicholson Hall 155, In Person Term Based; Rachel Goeller; 3 cr.

**3604 Introduction to Abnormal Psychology**  
(Student Option; Prereq: 1001)

47098 002 LEC, 13:00-14:15 TTh, Bruininks Hall 230, In Person Term Based; Rachel Goeller; 3 cr.  
47097 001 LEC, Completely Online; Bonnie Klimes-Dougan; 3 cr.

**3617 Introduction to Clinical Psychology**  
(Student Option; Prereq: 3604 or 5604H)

55565 001 LEC, 8:15- 9:30 MW, Nicholson Hall 35, In Person Term Based; Rachel Goeller; 3 cr.

**3666 Human Sexuality**  
(Student Option; Prereq: 1001)

58637 002 LEC, 16:00-18:30 T, Bruininks Hall 312, In Person Term Based; Linde Althaus; 3 cr.  
58421 001 LEC, 16:00-18:30 M, Bruininks Hall 330, In Person Term Based; Linde Althaus; 3 cr.

**3711 Psychology in the Workplace**  
(Student Option; Prereq: 1001, [2801/3801 or equiv] or SCO 2550 or instr consent)

50511 001 LEC, 11:15-12:30 TTh, Fraser Hall 102, In Person Term Based; Rachel Goeller; 3 cr.

**3801 Introduction to Psychological Measurement and Data Analysis**  
(Student Option; Prereq: High school algebra, [PSY 1001 or equiv]; intended for students who plan to major in psychologyMATH)

53453 001 LEC, 11:15-12:05 MWF, Mayo Bldg & Additions Auditori, In Person Term Based; Mark Stellmack; 4 cr.  
53454 002 LAB, 9:45-11:00 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.  
53456 004 LAB, 11:15-12:30 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.  
55346 006 LAB, 13:00-14:15 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.  
53459 008 LAB, 14:30-15:45 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.  
53461 010 LAB, 16:00-17:15 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.

53455 003 LAB, 9:45-11:00 T, Bruininks Hall 512B, In Person Term Based; Mark Stellmack; 4 cr.

53457 005 LAB, 11:15-12:30 T, Bruininks Hall 512B, In Person Term Based; Mark Stellmack; 4 cr.

53458 007 LAB, 13:00-14:15 T, Bruininks Hall 512B, In Person Term Based; Mark Stellmack; 4 cr.

53460 009 LAB, 14:30-15:45 T, Bruininks Hall 512B, In Person Term Based; Mark Stellmack; 4 cr.

57805 011 LAB, 17:30-18:45 T, Bruininks Hall 512A, In Person Term Based; Mark Stellmack; 4 cr.

**3901W Major Project - Research Laboratory**  
(A-F only; Prereq: [3801 or equiv], 3001W, completion of five courses from three distribution areas, PSY major, seniorWI)

60713 001 LEC, 8:15- 9:30 T, Bruininks Hall 230, In Person Term Based; Meets With: 001 PSY 3902W001 PSY 3903W; Caprice Niccoli-Waller; 3 cr.  
60903 006 LAB, 9:45-11:00 W, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
60719 004 LAB, 11:15-12:30 W, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
60718 003 LAB, 14:30-15:45 T, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
60902 005 LAB, 16:00-17:15 T, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
60717 002 LAB, 9:45-11:00 T, Elliott Hall S160, In Person Term Based; Caprice Niccoli-Waller; 3 cr.

**3902W Major Project - Individual Interests**  
(A-F only; Prereq: [3801 or equiv], [3001W], completion of five courses from three distribution areas, PSY major, srWI)

53126 002 LAB, 9:45-11:00 T, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
53127 003 LAB, 11:15-12:30 T, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
68361 007 LAB, 13:00-14:15 F, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
53128 004 LAB, 13:00-14:15 T, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
58638 006 LAB, 18:00-19:15 W, Elliott Hall S150, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
56872 005 LAB, 11:15-12:30 W, Elliott Hall S160, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
53125 001 LEC, 8:15- 9:30 T, Bruininks Hall 230, In Person Term Based; Meets With: 001 PSY 3901W001 PSY 3903W; Caprice Niccoli-Waller; 3 cr.

**3903W Major Project - Community**

**Engagement**  
(A-F only; Prereq: [3801 or equiv], 3001W, completion of five courses from three distribution areas, PSY major, seniorWI)

60714 001 LEC, 8:15- 9:30 T, Bruininks Hall 230, In Person Term Based; Meets With: 001 PSY 3902W001 PSY 3901W; Caprice Niccoli-Waller; 3 cr.  
60715 002 LAB, 11:15-12:30 T, Elliott Hall S160, In Person Term Based; Caprice Niccoli-Waller; 3 cr.  
60716 003 LAB, 16:00-17:15 T, Elliott Hall S160, In Person Term Based; Caprice Niccoli-Waller; 3 cr.

**3993 Directed Study**

(Student Option; Prereq instr consent, dept consent, college consent.)

47099 001 IND, In Person Term Based; Rachel Goeller; 1-6 cr.

**3996 Undergraduate Fieldwork and Internship in Psychology**

(Student Option; Prereq: 1001, instr consent, dept consent, college consent)

47909 001 FWK, In Person Term Based; Rachel Goeller; 1-6 cr.

**4012 Behavior Analysis and Autism**

(A-F or Audit; Prereq: Individual auto transportation, instr consent)

51040 001 LEC, 18:30-19:45 T, Vincent Hall 313, In Person Term Based; Eric Larsson; 4 cr.

**4032 Psychology of Music**

(Student Option; Prereq: Grad or [Jr or sr], [3011 or 3031 or 3051 or 3061]] or instr consent)

68487 001 LEC, 14:30-15:45 MW, Elliott Hall N391, In Person Term Based; Rachel Goeller; 3 cr.

**4501 Psychology of Women and Gender**  
(Student Option; Prereq: [Jr or sr], psych major] or instr consent)

57905 001 LEC, 11:15-12:30 MW, Armory Building 202, In Person Term Based; Rachel Goeller; 3 cr.

**4520 Psychology of Stress and Trauma**

(A-F only; Prereq: PSY 1001 and 3001W)

68362 001 LEC, 12:45-14:00 Th, Elliott Hall N119, In Person Term Based; Rachel Goeller; 3 cr.

**4902V Honors Project**

(A-F or Audit; Prereq: Honors, instr consent, dept consentWI)

47106 001 IND, In Person Term Based; Rachel Goeller; 1-6 cr.

**4993 Directed Research: Special Areas of Psychology and Related Sciences**

(Student Option; Prereq: instr consent, dept consent) 50079 001 IND, In Person Term Based; Rachel Goeller; 1-6 cr.

**4994V Honors Research Practicum**

(A-F only; Prereq: [3001W or 3001V], psych major, honorsWI)

47107 001 IND, 11:15-12:30 TTh, Elliott Hall N647, In Person Term Based; Charles Fletcher; 4 cr.

**5014 Psychology of Human Learning and Memory**

(Student Option; Prereq: 3011 or 3051 or honors or grad student)

68363 001 LEC, 18:00-20:45 W, Rapson Hall 13, In Person Term Based; Wilma Koutstaal; 3 cr.

**5037 Psychology of Hearing**

(Student Option; Prereq: [MATH 1271, [3031 or 3051 or 3061]] or grad student)

68364 001 LEC, 9:45-11:00 MW, Elliott Hall N668, In Person Term Based; Neal Viemeister; 3 cr.

**5065 Functional Imaging: Hands-on Training**

(Student Option; Prereq: [3801 or equiv], [3061 or NSCI 3101], instr consent)

54625 001 LEC, 13:30-15:30 M, Elliott Hall S150, In Person Term Based; Cheryl Olman; 3 cr.  
58096 002 LAB, 13:30-14:30 F, Room TBA, In Person Term Based; Cheryl Olman; 3 cr.  
58121 003 LAB, 14:30-15:30 F, Room TBA, In Person Term Based; Cheryl Olman; 3 cr.

**5135 Psychology of Individual Differences**  
(Student Option; Prereq: [3001W or equiv] or [5862 or equiv] or instr consent)

68365 001 LEC, 9:45-11:00 MW, Elliott Hall N119, In Person Term Based; James Lee; 3 cr.

**5202 Attitudes and Social Behavior**

(Student Option; Prereq: 3201 or instr consent)

47104 001 LEC, 13:25-14:15 MWF, Elliott Hall N391, In Person Term Based; Eugene Borgida; 3 cr.

**5501 Vocational and Occupational Health Psychology**

(Student Option; Prereq: 3001W or equiv or instr consent)

47105 001 LEC, 18:00-20:30 T, Elliott Hall N391, In Person Term Based; Rachel Goeller; 3 cr.

**5708 Organizational Psychology**

(Student Option; Prereq: [3001W, 3711] or psy grad or instr consent)

60389 001 LEC, 13:00-14:15 TTh, Elliott Hall N423, In Person Term Based; Aaron Schmidt; 3 cr.

**5865 Advanced Psychological and Educational Measurement**

(Student Option; Prereq: 5862 or instr consent)

68366 001 LEC, 11:15-12:30 TTh, Peik Hall 165, In Person Term Based; David Weiss; 4 cr.  
68367 002 LAB, 14:00-16:00 W, Vincent Hall 313, In Person Term Based; David Weiss; 4 cr.

**5960 Topics in Psychology**

(Student Option; Prereq: PSY 1001, [jr or sr or grad student])

59260 002 LEC, 13:00-15:30 T, Elliott Hall N668, In Person Term Based; Shmuel Lissek; 1-4 cr.  
55442 001 LEC, 14:30-15:45 TTh, Elliott Hall N423, In Person Term Based; William Grove; 1-4 cr.

**5993 Research Laboratory in Psychology**  
(Student Option; Prereq: instr consent, dept consent)

59008 043 LAB, In Person Term Based; 3 cr.  
55428 033 LAB, In Person Term Based; Aaron Schmidt; 3 cr.  
55421 004 LAB, In Person Term Based; Colin DeYoung; 3 cr.  
54619 003 LAB, In Person Term Based; John Campbell; 3 cr.  
54303 038 LAB, In Person Term Based; Mark Thomas; 3 cr.

57060 018 LAB, In Person Term Based; Robert Krueger; 3 cr.  
 57059 022 LAB, In Person Term Based; Shmuel Lissek; 3 cr.  
 57061 002 LAB, In Person Term Based; Thomas Brothen; 3 cr.  
 54101 011 LAB, In Person Term Based; William Grove; 3 cr.  
 54116 031 LAB, In Person Term Based; Alexander Rothman; 3 cr.  
 54115 030 LAB, In Person Term Based; Andrew Oxenham; 3 cr.  
 54110 024 LAB, In Person Term Based; Angus MacDonald; 3 cr.  
 57309 041 LAB, In Person Term Based; Bonnie Klimes-Dougan; 3 cr.  
 54112 026 LAB, In Person Term Based; Chad Marsolek; 3 cr.  
 54097 007 LAB, In Person Term Based; Charles Fletcher; 3 cr.  
 54113 027 LAB, In Person Term Based; Cheryl Olman; 3 cr.  
 54096 006 LAB, In Person Term Based; Christopher Federico; 3 cr.  
 54105 016 LAB, In Person Term Based; Daniel Kersten; 3 cr.  
 54114 028 LAB, In Person Term Based; Deniz Ones; 3 cr.  
 54094 001 LAB, In Person Term Based; Eugene Borgida; 3 cr.  
 54108 021 LAB, In Person Term Based; Gordon Legge; 3 cr.  
 55426 029 LAB, In Person Term Based; J. Overmier; 3 cr.  
 54270 035 LAB, In Person Term Based; Jeff Simpson; 3 cr.  
 54102 012 LAB, In Person Term Based; Jo-Ida Hansen; 3 cr.  
 54099 009 LAB, In Person Term Based; Jonathan Gewirtz; 3 cr.  
 57836 042 LAB, 13:00-15:00 F, Elliott Hall S160, In Person Term Based; Kristen Kling; 3 cr.  
 54291 036 LAB, In Person Term Based; Mark Snyder; 3 cr.  
 54100 010 LAB, In Person Term Based; Marti Gonzales; 3 cr.  
 55429 037 LAB, In Person Term Based; Moin Syed; 3 cr.  
 54109 023 LAB, In Person Term Based; Monica Luciana; 3 cr.  
 54107 019 LAB, In Person Term Based; Nathan Kuncel; 3 cr.  
 56553 039 LAB, In Person Term Based; Neal Viemeister; 3 cr.  
 56597 040 LAB, In Person Term Based; Niels Waller; 3 cr.  
 54098 008 LAB, In Person Term Based; Patricia Frazier; 3 cr.  
 54117 032 LAB, In Person Term Based; Paul Sackett; 3 cr.  
 54269 034 LAB, In Person Term Based; Paul Schraeter; 3 cr.  
 56481 020 LAB, In Person Term Based; Richard Lee; 3 cr.  
 55423 013 LAB, In Person Term Based; Sheng He; 3 cr.  
 54095 005 LAB, In Person Term Based; Stephen Engel; 3 cr.  
 54111 025 LAB, In Person Term Based; Traci Mann; 3 cr.  
 54103 014 LAB, 15:15-16:30 W, Elliott Hall N227, In Person Term Based; William Iacono; 3 cr.  
 54106 017 LAB, In Person Term Based; Wilma Koutstaal; 3 cr.  
 54104 015 LAB, In Person Term Based; Yuhong Jiang; 3 cr.

**8036 Topics in Computational Vision**

(Student Option; Prereq: 5031 or 5036 or equiv or instr consent)  
 58390 001 LEC, 15:00-16:30 T, Vincent Hall 301, In Person Term Based; Daniel Kersten; 3 cr.

**8055 Seminar: Cognitive Neuroscience**

(Student Option; Prereq: 5015 or instr consent)  
 68368 001 LEC, 9:45-11:45 Th, Elliott Hall N423, In Person Term Based; Chad Marsolek; 3 cr.

**8206 Proseminar in Social Psychology**

(S-N only; Prereq: [PSY 8205, Social Psych PhD student] or instr consent)  
 47781 001 LEC, 12:00-13:00 M, Room TBA, In Person Term Based; Traci Mann; 1 cr.

**8208 Social Psychology: The Self**

(A-F or Audit; Prereq: Psych background especially in personality and soc psych)  
 60056 001 LEC, 13:00-15:00 T, Appleby Hall 219, In Person Term Based; Mark Snyder; 3 cr.

**8209 Research Methods in Social Psychology**

(A-F only; Prereq: Psych PhD student)  
 58867 001 LEC, 9:00-11:00 T, Elliott Hall N305, In Person Term Based; Alexander Rothman; 3 cr.

**8212 Proseminar in Political Psychology II**

(S-N or Audit; Prereq: Political Psychology grad minor)  
 68123 001 LEC, 10:00-12:00 F, Social Sciences Building 1314, In Person Term Based; Meets With: 001 POL 8308; Howard Lavine; 1 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49155 001 IND, In Person Term Based; Rachel Goeller; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49248 001 IND, In Person Term Based; Rachel Goeller; 1 cr.

**8502 Assessment in Counseling**

**Psychology**  
 (Student Option; Prereq: Counseling psych grad student or instr consent)  
 50572 001 LEC, 9:30-11:00 F, Elliott Hall N595, 15:30-17:00 W, Elliott Hall N595, In Person Term Based; Laura Pendergrass; 3 cr.

**8511 Counseling Psychology Beginning**

**Practicum: General**  
 (S-N only; Prereq: Counseling Psy grad student)  
 47831 001 FWK, In Person Term Based; Jo-Ida Hansen; 1-6 cr.

**8515 University Counseling Practicum II**

(S-N only; Prereq: Counseling Psy grad student)  
 51306 001 FWK, 12:00-16:30 M, Room TBA, 10:00-12:00 F, Room TBA, 8:00-12:30 W, Room TBA, In Person Term Based; Amy Kranz; 4-6 cr.

**8541 Multicultural Psychology**

(Student Option; Prereq: instr consent)  
 68369 001 LEC, 12:30-15:00 T, Elliott Hall N595, In Person Term Based; Moin Syed; 3 cr.

**8544 Vocational and Occupational Health Psychology Research**

(Student Option; Prereq: [8501, 8502, 8503] or equiv, counseling psych grad student, instr consent)  
 58614 001 LEC, 10:30-12:30 Th, Elliott Hall N595, In Person Term Based; Jo-Ida Hansen; 3 cr.

**8545 Counseling Psychology Process and Outcome Research**

(Student Option; Prereq: [8501, 8502, 8503] or equiv, counseling psych grad student, instr consent)  
 57701 001 LEC, In Person Term Based; 3 cr.

**8561 Counseling Psychology Advanced**

**Practicum II: General**  
 (S-N only; Prereq: Counseling psy grad student, instr consent)  
 48761 001 FWK, 15:00-16:30 F, Elliott Hall N595, In Person Term Based; Patricia Frazier; 1-3 cr.

**8566 Counseling Psychology Advanced**

**Practicum II: Career Counseling and Assessment Clinic**  
 (S-N only; Prereq: Counseling psy grad student, instr consent)  
 47854 001 FWK, In Person Term Based; Amy Conlon; 1-6 cr.

**8571 Counseling Psychology Internship II**

(S-N only; Prereq: Counseling psy PhD candidate, instr consent)  
 48861 001 FWK, In Person Term Based; Jo-Ida Hansen; 1-12 cr.

**8612 Assessment of Personality and**

**Psychopathology: Interviewing, Diagnosis, and Cultural Diversity**  
 (A-F or Audit; Prereq: 8611, clinical psych grad student)  
 47848 001 LEC, 12:30-14:30 W, Elliott Hall N423, 9:00-12:00 M, Elliott Hall N423, In Person Term Based; William Grove; 5 cr.

**8620 Clinical Practicum: Consultation, Supervision, Professional Standards, and Lifelong Learning**

(S-N or Audit; Prereq: instr consent)  
 47849 001 FWK, In Person Term Based; Angus MacDonald; 1-6 cr.

**8664 Personality Assessment**

(Student Option; Prereq: Psy grad student or instr consent)  
 68370 001 LEC, 16:00-18:00 T, Bruininks Hall 119, In Person Term Based; Colin DeYoung; 3 cr.

**8703 Seminar in Industrial and**

**Organizational Psychology III**  
 (A-F or Audit; Prereq: instr consent)  
 68371 001 LEC, In Person Term Based; John Campbell; 3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49461 001 IND, In Person Term Based; Rachel Goeller; 1-18 cr.

**8815 Analysis of Psychological Data**

(Student Option; Prereq: 8814, instr consent)  
 56482 002 LAB, 8:15-10:15 M, Elliott Hall N391, In Person Term Based; Rachel Goeller; 4 cr.  
 50573 001 LEC, 9:45-11:00 WF, Elliott Hall N391, In Person Term Based; Christopher Federico; 4 cr.

**8882 Seminar: Quantitative and Psychometric Methods**

(Student Option; )  
 52694 001 LEC, 15:30-17:00 T, Elliott Hall N668, In Person Term Based; Niels Waller; 3 cr.  
 58393 002 LEC, 15:30-17:00 W, Elliott Hall N668, In Person Term Based; Chun Wang; 3 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
 49434 001 IND, In Person Term Based; Rachel Goeller; 1-24 cr.

**8935 Readings in Behavioral Genetics and Individual Differences Psychology**

(S-N or Audit; Prereq: 5135, 5137 or instr consent)  
 47916 001 IND, 12:00-13:00 M, Elliott Hall N227, In Person Term Based; Matt Mc Gue; 1 cr.

**8937 Seminar in Human Behavioral**

**Genetics**  
 (Student Option; Prereq: 5137 or instr consent)  
 57703 001 LEC, 11:15-12:30 TTTh, Elliott Hall N227, In Person Term Based; Matt Mc Gue; 3 cr.

**8960 Graduate Seminar in Psychology**

(Student Option; Prereq: Psychology grad student or instr consent)  
 68419 002 LEC, 9:00-11:00 Th, Elliott Hall N668, In Person Term Based; Nathaniel Helwig; 1-4 cr.  
 53568 001 LEC, 14:15-17:15 Th, Elliott Hall N391, In Person Term Based; Niels Waller; 1-4 cr.

**8993 Directed Studies: Special Areas of Psychology and Related Sciences**

(Student Option; Prereq: instr consent)  
 54460 001 IND, In Person Term Based; Rachel Goeller; 1-6 cr.

**Public Affairs (PA)****1401 Public Affairs: Community Organizing Skills for Public Action**

(A-F only; CIV)  
 60554 001 DIS, 8:15- 9:30 MW, Hubert H. Humphrey Center 60, In Person Term Based; Dennis Donovan; 3 cr.

**1961W Personal Leadership in the University**

(A-F only; WI)  
 60932 020 LEC, 11:15-12:30 TTTh, Appleby Hall 226, In Person Term Based; Meets With: 020 OLPD 1301W; Jessica Chung; 3 cr.  
 58007 015 LEC, 13:00-14:15 MW, Appleby Hall 204, In Person Term Based; Meets With: 015 OLPD 1301W; Jessica Chung; 3 cr.  
 56989 011 LEC, 14:30-15:45 MW, Folwell Hall 5, In Person Term Based; Meets With: 011 OLPD 1301W; Jessica Chung; 3 cr.  
 57374 012 LEC, 17:30-20:30 T, Folwell Hall 18, In Person Term Based; Meets With: 012 OLPD 1301W; Jessica Chung; 3 cr.  
 60931 018 LEC, 14:30-15:45 TTTh, Folwell Hall 28, In Person Term Based; Meets With: 018 OLPD 1301W; Jessica Chung; 3 cr.  
 56988 010 LEC, 9:45-11:00 MW, Nicholson Hall 355, In Person Term Based; Meets With: 010 OLPD 1301W; Jessica Chung; 3 cr.  
 59478 017 LEC, 13:00-14:15 MW, Nicholson Hall 355, In Person Term Based; Meets With: 017 OLPD 1301W; Jessica Chung; 3 cr.  
 58006 014 LEC, Completely Online; Meets With: 014 OLPD 1301W; Jessica Chung; 3 cr.  
 57416 013 LEC, Completely Online; Meets With: 013 OLPD 1301W; Jessica Chung; 3 cr.  
 58208 016 LEC, 11:15-12:30 F, Folwell Hall 103, Partially Online; Meets With: 016 OLPD 1301W; Jessica Chung; 3 cr.

48974 001 LEC, 9:45-11:00 TTh, Appleby Hall 204, In Person Term Based; Meets With: 001 OLDP 1301W; Jessica Chung; 3 cr.

53863 003 LEC, 13:00-14:15 TTh, Appleby Hall 204, In Person Term Based; Meets With: 003 OLDP 1301W; Jessica Chung; 3 cr.

54339 004 LEC, 16:00-17:15 TTh, Folwell Hall 16, In Person Term Based; Meets With: 004 OLDP 1301W; Jessica Chung; 3 cr.

49808 002 LEC, 11:15-12:30 MW, Appleby Hall 204, In Person Term Based; Meets With: 002 OLDP 1301W; Jessica Chung; 3 cr.

54815 005 LEC, 11:15-12:30 TTh, Appleby Hall 103, In Person Term Based; Meets With: 005 OLDP 1301W; Jessica Chung; 3 cr.

56654 009 LEC, 17:30-20:30 W, Folwell Hall 32, In Person Term Based; Meets With: 009 OLDP 1301W; Jessica Chung; 3 cr.

54845 007 LEC, Completely Online; Meets With: 007 OLDP 1301W; Jessica Chung; 3 cr.

56408 008 LEC, Completely Online; Meets With: 008 OLDP 1301W; Jessica Chung; 3 cr.

54816 006 LEC, 16:00-17:15 MW, Folwell Hall 104, Partially Online; Meets With: 006 OLDP 1301W; Jessica Chung; 3 cr.

### 3003 Nonprofit and Public Financial Management

(A-F or Audit; Prereq: Jr or sr)

55324 001 LEC, 9:45-11:00 W, Bruininks Hall 131A, In Person Term Based; John Gunyou; 3 cr.

### 3961 Leadership, You, and Your Community

(A-F only; )

57328 004 LEC, 13:00-14:15 MW, Appleby Hall 226, In Person Term Based; Meets With: 004 OLDP 3302; Jessica Chung; 3 cr.

68112 006 LEC, 11:15-12:30 MW, Folwell Hall 8, In Person Term Based; Meets With: 006 OLDP 3302; Jessica Chung; 3 cr.

58802 003 LEC, 16:00-17:15 MW, Folwell Hall 108, In Person Term Based; Meets With: 003 OLDP 3302; Jessica Chung; 3 cr.

60216 005 LEC, 14:30-15:45 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 005 OLDP 3302; Jessica Chung; 3 cr.

54138 002 LEC, 13:00-14:15 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 002 OLDP 3302; Jessica Chung; 3 cr.

48583 001 LEC, 9:45-11:00 TTh, Peik Hall 335, In Person Term Based; Meets With: 001 OLDP 3302; Jessica Chung; 3 cr.

### 3971 Leadership Minor: Field Experience

(A-F only; )

58803 004 FWK, 9:45-11:00 MW, Appleby Hall 204, In Person Term Based; Meets With: 004 OLDP 3306; Jessica Chung; 3 cr.

59009 001 FWK, 9:45-11:00 TTh, Appleby Hall 226, In Person Term Based; Meets With: 001 OLDP 3306; Jessica Chung; 3 cr.

59011 003 FWK, 11:15-12:30 TTh, Nicholson Hall 355, In Person Term Based; Meets With: 003 OLDP 3306; Jessica Chung; 3 cr.

59010 002 FWK, 16:00-17:15 MW, Bruininks Hall 530A, In Person Term Based; Meets With: 002 OLDP 3306; Ben Marcy; 3 cr.

### 3990 General Topics in Public Policy

(Student Option; )

68760 002 LEC, In Person Term Based; 1-3 cr.

60254 001 LEC, 16:40-19:20 W, Hubert H. Humphrey Center 60, In Person Term Based; Joel Mixon; 1-3 cr.

### 4101 Nonprofit Management and Governance

(Student Option; )

55326 001 LEC, 16:40-19:25 T, Hanson Hall, Room 1-111, In Person Term Based; Stephanie Jacobs; 3 cr.

### 4144 Social Entrepreneurship

(A-F only; Prereq: Junior or senior)

68868 001 LEC, 16:40-19:25 M, Hubert H. Humphrey Center 30, In Person Term Based; Colleen Ebinger; 3 cr.

### 4190 Topics in Public and Nonprofit Leadership and Management

(Student Option; )

61025 504 LEC, Study Abroad; June Nobbe; 1-3 cr.

### 4290 Topics in Planning

(Student Option; )

68323 001 LEC, 18:00-20:45 M, Mechanical Engineering 212, In Person Term Based; Meets With: 001 ARCH 4150002 ARCH 5750001 PA 5290; RT Rybak; 1-3 cr.

### 4790 Topics in Science, Technology, and Environmental Policy

(Student Option; )

67689 001 LEC, Completely Online; Meets With: 001 PA 5751; Anu Ramaswami; 1-3 cr.

### 4961W Leadership for Global Citizenship

(A-F only; GP,WI)

68330 004 LEC, 11:15-12:30 TTh, Appleby Hall 204, In Person Term Based; Meets With: 004 OLDP 4303W; David Hellstrom; 3 cr.

54846 002 LEC, 18:30-21:00 T, Folwell Hall 16, Partially Online; Meets With: 002 OLDP 4303W; Jessica Chung; 3 cr.

58804 003 LEC, 13:00-14:15 TTh, Appleby Hall 226, In Person Term Based; Meets With: 003 OLDP 4303W; Jessica Chung; 3 cr.

58002 001 LEC, 13:00-14:15 MW, Nicholson Hall 345, In Person Term Based; Meets With: 001 OLDP 4303W; Jessica Chung; 3 cr.

### 4971 Directed Study, Leadership Minor

(Student Option No Audit; Prereq: [3961 or OLPD 3302], consent of Leadership Minor Coordinator)

58805 001 IND, In Person Term Based; Laura Shelley; 1-4 cr.

### 5002 Introduction to Policy Analysis

(A-F or Audit; Prereq: Major or minor in public policy or science/technology/environmental policy or instr consent)

60236 002 LEC, 13:00-14:15 MW, Bruininks Hall 512A, In Person Term Based; Greg Lindsey; 1.5 cr.

53161 001 LEC, 18:00-20:45 M, Hubert H. Humphrey Center 20, In Person Term Based; Robert Kudrle; 1.5 cr.

### 5003 Introduction to Financial Analysis and Management

(A-F or Audit; Prereq: Public policy major/minor or major in development practice, public affairs or liberal studies or grad nonprofit mgmt cert or instr consent)

54056 002 LEC, 18:00-20:45 Th, Carlson School of Mgmt 2-228, In Person Term Based; Zhirong Zhao; 1.5 cr.

60237 001 LEC, 18:00-20:45 T, Hubert H. Humphrey Center 30, In Person Term Based; Zhirong Zhao; 1.5 cr.

### 5011 Management of Organizations

(A-F or Audit; Prereq: Major/minor in public policy or instr consent)

60238 001 LEC, 11:15-12:30 TTh, Hanson Hall, Room 1-108, In Person Term Based; Carrie Oelberger; 3 cr.

### 5012 The Politics of Public Affairs

(A-F or Audit; Prereq: Major or minor in public policy or [sci, tech, and environ policy] or public affairs PhD or instr consent)

47283 001 LEC, 14:30-15:45 TTh, Blegen Hall 415, In Person Term Based; Joe Soss; 3 cr.

### 5022 Economics For Policy Analysis and Planning II

(A-F or Audit; Prereq: [[5021 or equiv], public policy major] or instr consent)

48310 002 LAB, 10:10-11:00 F, Blegen Hall 415, In Person Term Based; 1.5-3 cr.

48309 001 LEC, 9:45-11:00 TTh, Blegen Hall 240, In Person Term Based; 1.5-3 cr.

56402 007 LEC, 9:45-11:00 TTh, Hubert H. Humphrey Center 184, In Person Term Based; Janna Johnson; 1.5-3 cr.

57843 003 LEC, 9:45-11:00 TTh, Hubert H. Humphrey Center 184, In Person Term Based; Judy Temple; 1.5-3 cr.

51511 009 LEC, 11:15-12:30 TTh, Blegen Hall 415, In Person Term Based; Maria Hanratty; 1.5-3 cr.

### 5032 Regression Analysis

(A-F or Audit; Prereq: [5031 or equiv], major or minor in public policy or science/technology/environmental policy or PA PhD or instr consent)

52112 003 LAB, 12:45-13:35 F, Hubert H. Humphrey Center 85, In Person Term Based; Robert Kudrle; 2 cr.

47856 002 LAB, 13:50-14:40 F, Hubert H. Humphrey Center 85, In Person Term Based; Robert Kudrle; 2 cr.

51189 005 LAB, 19:15-20:05 W, Hubert H. Humphrey Center 85, In Person Term Based; Robert Kudrle; 2 cr.

48578 006 LAB, 20:15-21:05 W, Hubert H. Humphrey Center 85, In Person Term Based; Robert Kudrle; 2 cr.

47855 001 LEC, 9:45-11:00 MW, Hubert H. Humphrey Center 25, In Person Term Based; Robert Kudrle; 2 cr.

48577 004 LEC, 17:45-19:00 MW, Hubert H. Humphrey Center 25, In Person Term Based; Robert Kudrle; 2 cr.

### 5033 Multivariate Techniques

(A-F or Audit; Prereq: [5032 or equiv], major/minor in public policy or sci/tech/env policy or PA PhD or instr consent. May fulfill stats requirements in other programs.)

50909 006 LAB, 12:45-13:35 F, Hubert H. Humphrey Center 85, In Person Term Based; Jason Hicks; 2 cr.

48580 005 LAB, 13:50-14:40 F, Hubert H. Humphrey Center 85, In Person Term Based; Jason Hicks; 2 cr.

52113 002 LAB, 19:15-20:05 W, Hubert H. Humphrey Center 85, In Person Term Based; Jason Hicks; 2 cr.

47858 003 LAB, 20:15-21:05 W, Hubert H. Humphrey Center 85, In Person Term Based; Jason Hicks; 2 cr.

48579 004 LEC, 8:15-9:30 MW, Hubert H. Humphrey Center 25, In Person Term Based; Jason Hicks; 2 cr.

47857 001 LEC, 17:45-19:00 MW, Hubert H. Humphrey Center 25, In Person Term Based; Jason Hicks; 2 cr.

### 5035 Survey Research and Data Collection

(A-F only; )

47859 001 LEC, 14:30-15:45 TTh, Blegen Hall 10, In Person Term Based; Robert Daves; 1.5 cr.

### 5039 Analytics for Leaders II

(A-F only; Prereq: 5038)

68409 001 LEC, 9:00-12:00 Sa, Room TBA, 9:00-12:00 Sa, Room TBA, 9:00-12:00 Sa, Room TBA, 9:00-12:00 Sa, Bruininks Hall 312, In Person Term Based; Angie Fertig; 3 cr.

### 5041 Qualitative Methods for Policy Analysts

(A-F only; Prereq: Major or minor in public policy or science/technology/environmental policy or PA PhD or instr consent)

66406 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey Center 35, In Person Term Based; Sarah Parkinson; 4 cr.

66407 002 LAB, 14:30-15:45 Th, Hubert H. Humphrey Center 85, In Person Term Based; Sarah Parkinson; 4 cr.

### 5042 Urban and Regional Economics

(A-F only; Prereq: [Major or minor in urban and regional planning, microeconomics course] or instr consent)

60240 002 DIS, 10:10-11:00 F, Hubert H. Humphrey Center 60, In Person Term Based; Jason Cao; 2 cr.

60241 003 DIS, 11:15-12:05 F, Hubert H. Humphrey Center 60, In Person Term Based; Jason Cao; 2 cr.

58579 001 LEC, 13:00-14:15 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Jason Cao; 2 cr.

### 5043 Economic and Demographic Data Analysis

(A-F only; Prereq: Major or minor in urban/regional planning or instr consent)

58583 002 LAB, 9:45-11:00 F, Hubert H. Humphrey Center 85, In Person Term Based; Ragui Assaad; 2 cr.

58584 003 LAB, 11:15-12:30 F, Hubert H. Humphrey Center 85, In Person Term Based; Ragui Assaad; 2 cr.

58582 001 LEC, 13:00-14:15 TTh, Hanson Hall, Room 1-103, In Person Term Based; Ragui Assaad; 2 cr.

### 5044 Regression Analysis, Accelerated

(A-F only; Prereq: [5031 or equiv], major or minor in public policy or sci, tech, and environ policy, or PA PhD or instr consent)

60742 002 LAB, 9:45-11:00 F, Hubert H. Humphrey Center 85, In Person Term Based; Janna Johnson; 2 cr.

60743 003 LAB, 11:15-12:30 F, Hubert H. Humphrey Center 85, In Person Term Based; Janna Johnson; 2 cr.

60741 001 LEC, 9:45-11:00 MW, Blegen Hall 415, In Person Term Based; Janna Johnson; 2 cr.

### 5052 Cohort Leadership II

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5051-5052 must be taken in same academic yr)

57279 001 LEC, 10:00-17:00 F, Hubert H. Humphrey Center 180, 8:30-16:30 Sa, Hubert H. Humphrey Center 180, 10:00-17:00 F, Hubert H. Humphrey Center 180, 8:30-16:30 Sa, Hubert H. Humphrey Center 180, 10:00-17:00 F, Hubert H. Humphrey Center 180, 8:30-16:30 Sa, Hubert H. Humphrey Center 180, 10:00-17:00 F, Hubert H. Humphrey Center 180, 8:30-16:30 Sa, Hubert H. Humphrey Center 180, 10:00-17:00 F, Hubert H. Humphrey Center 180, 8:30-16:30 Sa, Hubert H. Humphrey Center 180, Partially Online; Kevin Gerdes; 2 cr.

### 5054 Cohort Policy Analysis II

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5053-5054 must be taken in same academic yr)

57280 001 LEC, Partially Online; Kevin Gerdes; 2 cr.





**5925 Creating a Professional Online****Portfolio**

(S-N only; Prereq: [MDP, MPA, MPP, MS-STEP, MURP] or instr consent)

59596 001 LAB, 9:00-12:00 Sa, Hubert H. Humphrey Center 85, 9:00-12:00 Sa, Hubert H. Humphrey Center 85, 9:00-12:00 Sa, Hubert H. Humphrey Center 85, 9:00-12:00 Sa, Hubert H. Humphrey Center 85, In Person Term Based; Lynne Groves; 1 cr.

**5972 Election Law**

(Student Option No Audit; )

68804 001 LEC, Completely Online; Doug Chapin; 3 cr.

**5990 Topics: Public Affairs--General Topics**

(Student Option; Prereq: Grad student or instr consent)

59491 001 LEC, In Person Term Based; Steven Sviggum; 0-3 cr.

**5993 Directed Study in Public Affairs**

(Student Option; )

68732 001 IND, In Person Term Based; Laura Bloomberg; 1-3 cr.

**8004 Integrative Doctoral Seminar in Public Affairs II**

(A-F only; Prereq: Public Affairs doctoral student)

67513 001 LEC, 13:00-15:45 F, Hubert H. Humphrey Center 30, In Person Term Based; Edward Goetz; 3 cr.

**8081 Capstone Workshop**

(A-F only; Prereq: Grad major in public affairs or public policy or [urban and regional planning] or [science, technology, and environment policy] or development practice, completion of core courses or instr consent)

57554 002 LEC, In Person Term Based; 3 cr.  
67162 007 LEC, 11:15-14:00 M, Carlson School of Mgmt L-126, In Person Term Based; Neeraj Mehta; 3 cr.  
57086 010 LEC, In Person Term Based; Arthur Rolnick; 3 cr.  
58585 005 LEC, 9:05-11:50 F, Carlson School of Mgmt 1-122, 9:05-11:50 F, Carlson School of Mgmt 1-122, 9:05-11:50 F, Carlson School of Mgmt 1-122, 9:05-11:50 F, Carlson School of Mgmt 1-122, 9:05-11:50 F, Carlson School of Mgmt 1-122, 9:05-11:50 F, Carlson School of Mgmt 1-122, In Person Term Based; Doug Chapin; 3 cr.  
58586 012 LEC, 9:05-11:50 M, Hubert H. Humphrey Center L-126, In Person Term Based; Meets With: 002 PA 8082; Elizabeth Wilson; 3 cr.  
53356 006 LEC, 14:30-17:00 Th, Hubert H. Humphrey Center 35, In Person Term Based; Greg Lindsey; 3 cr.  
51067 003 LEC, 16:40-19:25 Th, Carlson School of Mgmt 1-122, In Person Term Based; Kathy Quick; 3 cr.  
68731 011 LEC, 18:00-20:45 T, Hubert H. Humphrey Center 15, In Person Term Based; Lyssa Leitner; 3 cr.  
52664 004 LEC, 14:30-17:00 T, Hubert H. Humphrey Center 20, In Person Term Based; Maria Hanratty; 3 cr.  
60257 008 LEC, 12:20-15:05 F, Blegen Hall 235, In Person Term Based; Mary Curtin; 3 cr.  
58841 001 LEC, 14:30-17:00 W, Carlson School of Mgmt 1-122, In Person Term Based; Melissa Stone; 3 cr.  
58862 009 LEC, 16:40-19:25 T, Hubert H. Humphrey Center 35, In Person Term Based; Robert Kudrle; 3 cr.**8082 Working Group**

(A-F or Audit; Prereq: [Grad major in [public policy or [urban and regional planning] or [science, technology, and environment policy]], completion of core courses] or instr consent)

53498 001 IND, In Person Term Based; 3 cr.  
66394 003 IND, 8:15-11:00 W, Hubert H. Humphrey Center 30, In Person Term Based; Deborah Levison; 3 cr.  
52518 002 IND, 9:05-11:50 M, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 012 PA 8081; Elizabeth Wilson; 3 cr.**8202 Networks and Places: Transportation, Land Use, and Design**

(A-F or Audit; Prereq: Major/minor in urban and regional planning or PA PhD or instr consent)

48523 001 LEC, 14:30-16:25 MW, Hubert H. Humphrey Center 20, In Person Term Based; Jason Cao; 4 cr.

**8312 Analysis of Discrimination**

(Student Option; )

68261 001 LEC, 11:15-12:45 T, Carlson School of Mgmt L-122, In Person Term Based; Samuel Myers; 4 cr.  
68264 002 LAB, 11:15-12:45 Th, Hubert H. Humphrey Center 85, In Person Term Based; Samuel Myers; 4 cr.**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49148 001 IND, In Person Term Based; 1 cr.

**8390 Advanced Topics in Advanced Policy Analysis Methods**

(Student Option; )

60258 001 LEC, 16:40-19:25 M, Hubert H. Humphrey Center 35, In Person Term Based; Janna Johnson; 1-3 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

48530 001 IND, In Person Term Based; 1-18 cr.

**8922 Master's Paper: Plan B**

(Student Option; Prereq: instr consent)

68472 001 IND, In Person Term Based; 1-3 cr.

**Public Health (PUBH)****1001 Success Over Stress (SOS)**

(Student Option; Prereq: Undergrad or PSEO student)

56999 001 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
58145 002 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
67830 007 LEC, Completely Online; Sarah Keene; 1 cr.  
67834 008 LEC, Completely Online; Sarah Keene; 1 cr.  
67835 009 LEC, Completely Online; Sarah Keene; 1 cr.  
67836 010 LEC, Completely Online; Sarah Keene; 1 cr.  
67837 011 LEC, Completely Online; Sarah Keene; 1 cr.  
58146 003 LEC, Completely Online; Sarah Keene; 1 cr.  
58147 004 LEC, Completely Online; Sarah Keene; 1 cr.  
58148 005 LEC, Completely Online; Sarah Keene; 1 cr.  
67829 006 LEC, Completely Online; Sarah Keene; 1 cr.**1003 Alcohol and College Life (ACL)**

(Student Option; Prereq: Fr or soph or PSEO)

50818 002 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
50810 001 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
55066 003 LEC, Completely Online; Jerri Kjolhaug; 1 cr.**1004 Sexuality Matters**

(Student Option; Prereq: Undergrad or PSEO student)

58702 005 LEC, Completely Online; Emily Matson; 1 cr.  
67838 006 LEC, Completely Online; Emily Matson; 1 cr.  
58701 004 LEC, Completely Online; Emily Matson; 1 cr.  
58699 002 LEC, Completely Online; Emily Matson; 1 cr.  
58700 003 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
58698 001 LEC, Completely Online; Jerri Kjolhaug; 1 cr.**1005 Sleep, Eat, and Exercise**

(Student Option; Prereq: [Undergrad or PSEO] student)

56633 003 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
56634 004 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
57010 005 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
57011 006 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
57012 007 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
55746 001 LEC, Completely Online; Jerri Kjolhaug; 1 cr.  
56632 002 LEC, Completely Online; Jerri Kjolhaug; 1 cr.**3001 Personal and Community Health**

(Student Option; )

47674 001 LEC, 12:20-13:10 MW, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando; 2 cr.

**3003 Fundamentals of Alcohol and Drug Abuse**

(Student Option; )

47678 001 LEC, 12:20-13:10 TTh, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando; 2 cr.

**3004 Basic Concepts in Personal and Community Health**

(Student Option; )

48534 001 LEC, 12:20-13:10 MTWTh, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando; 4 cr.

**3005 Fundamentals of Alcohol and Drug Abuse for Teacher Education**

(Student Option; Prereq: Undergrad in agricultural educ or business/marketing educ or career/technical educ or foundations of educ or [kinesiology, pre-PE] or technology educ or music educ)

53148 320 LEC, Completely Online; Meets With: 001 PUBH 6003; Emily Matson; 1 cr.

**3052 Practicum in Peer Education II**

(A-F or Audit; Prereq: Undergrad student, demonstrated hlth sci or hlth ed interest, selected to serve as a hlth advocate, instr consent)

47757 001 LEC, 14:45-16:45 T, , In Person Term Based; Julie Sanem; 2 cr.

**3104 Environmental Health Effects:****Introduction to Toxicology**

(Student Option; Prereq: Previous coursework in biology and chemistry; biochemistry is recommended. Ability to analyze data, and understand the basic functions of DNA, enzymes and other proteins, and lipids.)

68259 001 LEC, In Person Term Based; 2 cr.

**3129 Injury Prevention in the Workplace, Community, and Home**

(Student Option; Prereq: Basic epidemiology course preferred but not required)

69022 001 LEC, 13:25-15:20 M, Mayo Bldg &amp; Additions 1250, In Person Term Based; Meets With: 001 PUBH 6120; Susan Gerberich; 2 cr.

**3123 Violence Prevention and Control: Theory, Research and Application**

(Student Option No Audit; Prereq: None)

69020 001 LEC, 15:35-17:30 M, Mayo Bldg &amp; Additions 1250, In Person Term Based; Meets With: 001 PUBH 6123; Susan Gerberich; 2 cr.

**3350 Epidemiology: People, Places, and Disease**

(Student Option; Prereq: Undergrad statistics course is recommended)

57013 001 LEC, 15:35-17:30 Th, , In Person Term Based; Ruby Nguyen; 2 cr.

**3601 Maternal and Child Health Global Public Health Issues**

(A-F only; Prereq: Public Health minor requirements or instr consent, [3202 or 3001 or 3004], [3350 or 3106])

59267 001 LEC, 10:10-12:05 W, , In Person Term Based; Zobeida Bonilla; 2 cr.

**3639 Prevention: Theory, Practice, and Application in Public Health Services**

(Student Option; Prereq: Jr or sr)

50172 001 LEC, 14:30-15:45 TTh, , In Person Term Based; Deborah Henrikus; 3 cr.

**3801 Health Economics and Policy**

(Student Option; Prereq: Course on microeconomics, course on basic statistics)

50284 001 LEC, 10:10-11:40 TTh, , In Person Term Based; Caroline Carlin; 3 cr.

**3807 Global Health, Relief, Development and Religious and Non-religious NGOs**

(Student Option; )

59453 001 LEC, 17:40-20:30 W, , In Person Term Based; Kirk Allison; 3 cr.

**3955 Using Policy to Address Child & Adolescent Obesity Prevention**

(Student Option; Prereq: basic nutrition course or instr consent)

59326 320 LEC, Completely Online; Meets With: 320 PUBH 6900; Nicole Larson; 1 cr.

**5099 Topics: Epidemiology and Community Health**

(Student Option; Prereq: prerequisites specified by topic title)

68891 002 LEC, In Person Term Based; 1-4 cr.  
61075 001 LEC, 9:05-11:00 T, , In Person Term Based; Dianne Neumark-Sztainer; 1-4 cr.**6003 Fundamentals of Alcohol and Drug Abuse for Teacher Education**

(Student Option; Prereq: Master of education student or instr consent)

50445 001 LEC, Completely Online; Meets With: 320 PUBH 3005; Emily Matson; 1 cr.  
50442 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 1 cr.**6020 Fundamentals of Social and Behavioral Science**

(A-F only; Prereq: Public health [MPH or MHA or certificate] student or health journalism MA major or instr consent)

52665 200 LEC, Completely Online; Rhonda Jones-Webb; 3 cr.  
50802 320 LEC, Completely Online; Rhonda Jones-Webb; 3 cr.**6034 Program Evaluation for Public Health Practice**

(Student Option; Prereq: [Community Health Promotion or Maternal/Child Health or Public Health Nutrition], [MPH major or instr consent])  
47604 001 LEC, 15:35-18:35 M, Bruininks Hall 530B, In Person Term Based; Boris Volkov; 3 cr.

### 6045 Skills for Policy Development

(Student Option; )  
54408 001 LEC, 13:25-15:00 TTh, , In Person Term Based; Traci Toomey; 1 cr.

### 6049 Legislative Advocacy Skills for Public Health

(A-F only; )  
47605 001 FWK, 15:35-17:30 Th, , 15:35-17:30 Th, , 15:35-17:30 Th, , 15:35-17:30 Th, , 15:35-17:30 Th, , 15:35-17:30 Th, , In Person Term Based; Traci Toomey; 3 cr.

### 6051 Community Health Theory and Practice II

(A-F only; )  
46438 001 LEC, 11:15-12:30 TTh, , In Person Term Based; Traci Toomey; 3 cr.

### 6055 Social Inequalities in Health

(Student Option; )  
53134 001 LEC, 11:15-13:10 W, , In Person Term Based; Rhonda Jones-Webb; 2 cr.

### 6085 Alcohol and Tobacco: Ongoing Threats to Global Health

(Student Option; )  
56468 001 LEC, 15:35-17:30 T, , In Person Term Based; Harry Lando; 2 cr.

### 6094 Obesity and Eating Disorder

Interventions  
(Student Option; )  
60690 001 LEC, 15:35-17:30 W, , In Person Term Based; Jennifer Linde; 2 cr.

### 6100 Topics: Environmental Health

(Student Option; )  
68289 001 LEC, In Person Term Based; 0.5-4 cr.  
59499 181 LEC, 16:00-18:00 W, , In Person Term Based; Craig Hedberg; 0.5-4 cr.

### 6101 Environmental Health

(A-F only; Prereq: Public health [MPH or MHA or certificate] student or instr consent)  
47000 001 LEC, 18:00-21:00 MW, , In Person Term Based; William Toscano; 2 cr.

### 6102 Issues in Environmental Health

(A-F only; Prereq: Public health [MPH or MHA or certificate] student or health journalism MA major or nursing MS student or instr consent)  
50763 320 IND, Completely Online; Petrona Lee; 2 cr.  
55427 200 IND, Completely Online; Petrona Lee; 2 cr.

### 6105 Environmental and Occupational Health Policy

(A-F or Audit; Prereq: Environmental health major or instr consent)  
46994 001 LEC, 18:00-19:55 T, , In Person Term Based; Patricia McGovern; 2 cr.

### 6106 Making Sense of Health Studies

(Student Option No Audit; )  
61299 001 DIS, 12:20-14:15 Th, , In Person Term Based; George Maldonado; 2 cr.

### 6112 Environmental Health Risk

Assessment: Application to Human Health Risks from Exposure to Chemicals  
(Student Option; Prereq: Intro courses in toxicology/exposure analysis (e.g., PubH 6104 Environmental Health Effects: Introduction to Toxicology, PubH 6103 Exposure to Environmental Hazards) or equivalent.)  
56648 001 LEC, 18:00-20:00 Th, , In Person Term Based; Elizabeth Wattenberg; 2 cr.

### 6116 Environmental Law

(Student Option; )  
55509 001 LEC, 16:40-18:35 W, , In Person Term Based; Michael Austin; 1 cr.

### 6120 Injury Prevention in the Workplace, Community, and Home

(Student Option; )  
46997 001 LEC, 13:25-15:20 M, Mayo Bldg & Additions 1250, In Person Term Based; Meets With: 001 PUBH 3120; Susan Gerberich; 2 cr.

### 6121 Topics: Injury Prevention in the Workplace, Community, and Home

(Student Option; )  
69021 001 LEC, In Person Term Based; Susan Gerberich; 1-2 cr.

### 6123 Violence Prevention and Control: Theory, Research, and Application

(Student Option; )  
60992 001 LEC, 15:35-17:30 M, Mayo Bldg & Additions 1250, In Person Term Based; Meets With: 001 PUBH 3123; Susan Gerberich; 2 cr.

### 6130 Occupational Medicine: Principles and Practice

(S-N only; Prereq: Environmental health major; toxicology course recommended or instr consent)  
46995 001 LEC, 17:00-19:00 W, , In Person Term Based; Beth Baker; 2 cr.

### 6131 Working in Global Health

(Student Option; Prereq Grad student.)  
68257 001 LEC, 18:00-20:30 W, , In Person Term Based; Karin Hamilton; 2 cr.

### 6133 Global Health Seminar

(S-N only; Prereq: Public health student or instr consent)  
54409 001 LEC, 17:45-19:45 M, , In Person Term Based; Bruce Alexander; 1 cr.

### 6140 Occupational and Environmental Epidemiology

(Student Option; Prereq: Coursework in epidemiology, biostatistics)  
46998 001 LEC, 9:05-11:00 Th, , In Person Term Based; Timothy Church; 2 cr.

### 6150 Interdisciplinary Evaluation of Occupational Health and Safety Field Problems

(Student Option; Prereq: 6170 or instr consent)  
46996 001 LEC, 10:10-13:10 T, , In Person Term Based; Susan Arnold; 3 cr.

### 6154 Climate Change and Global Health

(Student Option; Prereq: Students must have elementary computer skills.)  
69031 001 LEC, 13:00-14:15 TTh, , In Person Term Based; Matt Simcik; 3 cr.

### 6160 Systems Toxicology

(Student Option; Prereq: [Coursework in biochemistry, molecular biology, organic chemistry] or instr consent)  
46999 001 LEC, 15:35-16:50 MW, , In Person Term Based; Lisa Peterson; 3 cr.

### 6161 Regulatory Toxicology

(Student Option; Prereq: Background in toxicology or pharmacology or related field is recommended)  
55562 001 LEC, 18:00-20:00 Th, , In Person Term Based; Silvia Balbo; 2 cr.

### 6172 Industrial Hygiene Applications

(Student Option; Prereq: [6170, environmental health major] or instr consent)  
56534 001 LEC, 9:05-11:00 F, , In Person Term Based; Susan Arnold; 2 cr.

### 6173 Exposure to Physical Agents

(Student Option; Prereq: Environmental health major or instr consent)  
55327 001 LEC, 16:40-18:40 M, , In Person Term Based; Peter Raynor; 2 cr.

### 6174 Control of Workplace Exposure

(Student Option; Prereq: Environmental health major or instr consent)  
56535 001 LEC, 16:40-19:40 M, Room TBA, In Person Term Based; Peter Raynor; 3 cr.

### 6175 Environmental Measurements Laboratory

(A-F only; Prereq: EH or instr consent)  
56536 001 LAB, 12:20-16:25 W, , In Person Term Based; Gurumurthy Ramachandran; 2 cr.

### 6182 Emerging Infectious Disease: Current Issues, Policies, and Controversies

(Student Option; Prereq: AHC student, instr consent)  
52564 001 LEC, 10:10-13:10 M, , In Person Term Based; Michael Osterholm; 3 cr.

### 6210 Public Health Medicine Seminar

(S-N or Audit; Prereq: [Public health medicine program MPH major or [IMD degree or equiv], instr consent])  
53690 001 LEC, In Person Term Based; William Lohman; 1 cr.

### 6303 Clinical Research Project Seminar

(S-N only; )  
49713 001 LEC, 14:30-16:25 M, , In Person Term Based; Russell Luepker; 2 cr.

### 6320 Fundamentals of Epidemiology

(A-F only; )  
55420 200 LEC, Completely Online; Shelley Cooksey; 3 cr.  
55299 001 LEC, 8:00-9:55 T, , In Person Term Based; Shelley Cooksey; 3 cr.  
55301 320 LEC, Completely Online; Shelley Cooksey; 3 cr.  
55300 002 LAB, 8:00-9:55 Th, , In Person Term Based; Shelley Cooksey; 3 cr.

### 6325 Data Processing with PC-SAS

(Student Option; )  
52560 002 LAB, 12:00-14:00 Sa, Mayo Bldg & Additions C381, In Person Term Based; Michael Oakes; 1 cr.  
52561 003 LAB, 14:00-16:00 Sa, Mayo Bldg & Additions C381, In Person Term Based; Michael Oakes; 1 cr.  
52559 001 LEC, 9:00-11:00 Sa, , In Person Term Based; Michael Oakes; 1 cr.

### 6342 Epidemiologic Methods II

(Student Option; )  
53578 001 LEC, 16:00-17:15 TTh, , In Person Term Based; Jim Pankow; 3 cr.

### 6344 Completing the Culminating Experience: Secondary Data Analysis

(Student Option; )  
56472 001 LEC, 10:10-12:05 W, Mayo Bldg & Additions C381, In Person Term Based; Lyn Steffen; 2 cr.

### 6385 Epidemiology and Control of Infectious Diseases

(Student Option; )  
46227 001 LEC, 14:30-16:25 MW, , In Person Term Based; Alan Lifson; 2 cr.

### 6387 Cancer Epidemiology

(Student Option; )  
46563 001 LEC, 12:20-14:15 M, , In Person Term Based; Heather Nelson; 2 cr.

### 6414 Biostatistical Literacy

(A-F only; Prereq: MPH or certificate student or environmental health or instr consent)  
60475 001 LEC, 16:00-17:15 TTh, , In Person Term Based; Laura Le; 3 cr.  
60476 002 LAB, In Person Term Based; Laura Le; 3 cr.  
55422 200 LEC, Completely Online; Ann Brearley; 3 cr.  
54890 320 LEC, Completely Online; Ann Brearley; 3 cr.

### 6450 Biostatistics I

(A-F only; Prereq: [College-level algebra, health sciences grad student] or instr consent)  
58547 320 LEC, Completely Online; Baolin Wu; 4 cr.  
50090 002 LAB, 9:05-9:55 M, Mayo Bldg & Additions C381, In Person Term Based; Sally Olander; 4 cr.  
50091 003 LAB, 12:20-13:10 W, Mayo Bldg & Additions C381, In Person Term Based; Sally Olander; 4 cr.  
46526 001 LEC, 10:10-12:05 MW, ONLINE, In Person Term Based; Sally Olander; 4 cr.

### 6451 Biostatistics II

(Student Option; Prereq: [[6420, 6450] with grade of at least B, health sciences grad student] or instr consent)  
46527 001 LEC, 10:10-12:05 MW, ONLINE, In Person Term Based; Robert Leduc; 4 cr.  
58549 320 LEC, Completely Online; Sally Olander; 4 cr.

### 6527 Healthcare Leadership and Effecting Change

(A-F only; Prereq: MHA student)  
59512 001 LEC, 13:25-15:20 T, Mayo Bldg & Additions 1250, In Person Term Based; Katie White; 2 cr.

### 6544 Principles of Problem Solving in Health Services Organizations

(A-F only; Prereq: 6541, completed 30 hours of MHA coursework, health care administration student)  
48314 001 LEC, 15:45-17:25 W, , In Person Term Based;  
Sandra Potthoff; 3 cr.

### 6547 Health Care Human Resources Management

(A-F or Audit; Prereq: Health care admin student or public health admin student or instr consent)  
48315 001 LEC, 13:25-15:20 MW, , In Person Term Based;  
Patrick Langan; 2 cr.

### 6553 Health Care Management Ethics

(A-F only; Prereq: Public health MPH or MHA or certificate student or instr consent)  
53587 001 LEC, 10:10-12:05 M, , In Person Term Based;  
Richard Drill-Mellum; 1 cr.

### 6554 Healthcare Strategy and Marketing

(A-F or Audit; Prereq: Health care admin student or public health admin student or instr consent)  
48316 001 LEC, 11:15-13:10 Th, , In Person Term Based;  
Steven Hillestad; 2 cr.

### 6557 Health Finance I

(Student Option; Prereq: [[Health care admin or public health admin/policy major], familiarity with computerized spreadsheets] or instr consent)  
53174 001 LEC, 13:25-16:30 M, , In Person Term Based;  
Richard Priore; 3 cr.

### 6560 Operations Research and Quality in Health Care

(A-F only; Prereq: Grad-level statistics/management coursework)  
60787 001 LEC, 9:05-12:05 T, , In Person Term Based;  
Sandra Potthoff; 3 cr.

### 6570 Healthcare Administration

(A-F only; Prereq: dept consent)  
61198 001 LEC, 10:10-12:05 M, , In Person Term Based; 1-4 cr.  
61218 200 LEC, Completely Online; Daniel Tracy; 1-4 cr.  
61217 320 LEC, Completely Online; Daniel Tracy; 1-4 cr.

### 6571 Leading Performance Improvement in Health Care

(A-F only; Prereq: MHA or MPH or certificate student or instr consent)  
55564 001 LEC, In Person Term Based; Stephen Swensen;  
2 cr.

### 6573 The Nature of Clinical Care

(A-F only; Prereq: School of Public Health student)  
54834 001 LEC, 9:05-11:00 Th, , In Person Term Based;  
Thomas Marr; 2 cr.

### 6577 Advanced Problem Solving in Health Services Administration

(A-F only; Prereq: MHA student)  
55379 001 LEC, In Person Term Based; Gregory Hart; 2 cr.

### 6589 Medical Technology Evaluation and Market Research

(Student Option; )  
54242 001 LEC, 15:45-17:25 M, , In Person Term Based;  
Irene Kawalec-Menasco; 2 cr.

### 6596 Legal Considerations in Health Services Organizations

(A-F or Audit; Prereq: Health care admin student)  
48456 001 LEC, 16:45-18:45 Th, , In Person Term Based;  
David Feinwachs; 2 cr.

### 6627 Sexuality Education: Criteria, Curricula, and Controversy

(Student Option; )  
54582 001 LEC, 8:30-16:00 Sa, Bruininks Hall 131B,  
8:30-16:00 Sa, Bruininks Hall 131A, In Person Term  
Based; Lynn Brett; 1 cr.

### 6673 Grant Writing for Public Health

(Student Option; )  
55697 001 LEC, 12:20-14:15 M, , In Person Term Based;  
Deborah Hennrikus; 1 cr.

### 6700 Foundations of Public Health

(Student Option; )  
61301 004 LEC, Completely Online; Helen Parsons; 3 cr.  
56596 320 LEC, Completely Online; Helen Parsons; 3 cr.

### 6702 Integrative Leadership Seminar

(Student Option; Prereq: University of Minnesota doctoral student or master's student, Integrative Leadership minor)

58619 001 LEC, 18:00-20:45 M, Carlson School of Mgmt  
L-122, In Person Term Based; Meets With: 001 PA  
5105060 MGMT 6402001 OLPD 6402001 LAW 6623; Katie  
White; 3 cr.

### 6711 Public Health Law

(Student Option; Prereq: Grad student or professional school student or instr consent)  
47497 001 LEC, 17:45-19:40 W, , In Person Term Based;  
Anne Barry; 2 cr.

### 6724 The Health Care System and Public Health

(Student Option; Prereq: Public health or grad student or instr consent)  
61302 004 LEC, Completely Online; Andrew Ward; 3 cr.  
53794 320 LEC, Completely Online; Andrew Ward; 3 cr.

### 6727 Health Leadership and Effecting Change

(Student Option; Prereq: Public hlt MPH or MHA or certificate student or [health services research, policy/admin] MS student or instr consent)  
53240 001 LEC, 10:10-12:05 M, , In Person Term Based;  
Katie White; 2 cr.

### 6741 Ethics in Public Health: Professional Practice and Policy

(A-F only; Prereq: Public health [MPH or MHA or certificate] student or environmental health [MS or PhD] major or instr consent)  
61305 004 LEC, Completely Online; Ruth Mickelsen; 1 cr.  
50130 320 LEC, Completely Online; Ruth Mickelsen; 1 cr.

### 6742 Ethics in Public Health: Research and Policy

(A-F only; Prereq: Public health [MPH or certificate] student or [clinical research MS or Environmental health [MS or PhD] or epidemiology PhD or [health services research, policy/admin [MS or PhD]] major or instr consent)  
55424 200 LEC, Completely Online; Leigh Turner; 1 cr.  
49810 320 LEC, Completely Online; Leigh Turner; 1 cr.  
56713 002 LEC, In Person Term Based; Leigh Turner; 1 cr.

### 6744 State Health Policy and Politics

(Student Option No Audit; )  
56594 001 LEC, 17:30-20:45 M, Room TBA, In Person Term  
Based; Sheila Kiscaden; 2 cr.

### 6751 Principles of Management in Health Services Organizations

(A-F only; Prereq: [Public hlt MPH or MHA or certificate] student or [environmental health MS or PhD] student or dentistry MS student or instr consent)  
53588 320 LEC, Completely Online; 2 cr.  
55864 201 LEC, Completely Online; James Begun; 2 cr.  
55879 322 LEC, Completely Online; James Begun; 2 cr.  
55425 200 LEC, Completely Online; James Begun; 2 cr.  
55878 321 LEC, Completely Online; James Begun; 2 cr.

### 6765 Continuous Quality Improvement: Methods and Techniques

(Student Option; )  
61304 004 LEC, Completely Online; 3 cr.  
53887 320 LEC, Completely Online; ; 3 cr.

### 6772 Health Disparities Capstone Seminar

(Student Option No Audit; Prereq: [CSPH 5115, 2d yr MPH student completing SPH health disparities interdisciplinary concentration] or instr consent)  
55735 001 LEC, 11:15-13:10 F, , In Person Term Based;  
Jean Forster; 1 cr.

### 6780 Topics: Public Health Administration and Policy

(A-F only; )  
58990 003 LEC, In Person Term Based; 1-3 cr.  
58989 001 LEC, In Person Term Based; ; 1-3 cr.  
61031 005 LEC, 8:00-19:00 WThFSa, , Partially Online; Lynn  
Blewett; 1-3 cr.  
58991 004 LEC, 10:10-12:05 Th, , In Person Term Based;  
Roger Feldman; 1-3 cr.  
55887 002 LEC, 17:45-20:50 M, , In Person Term Based;  
Sheila Kiscaden; 1-3 cr.

### 6800 Topics: Health Services Research and Policy

(Student Option; )

55189 001 LEC, 9:05-12:05 F, , In Person Term Based; Ezra  
Golberstein; 0.5-4 cr.

### 6803 Conducting a Systematic Literature Review

(Student Option No Audit; Prereq: Basic knowledge of epidemiology)  
54410 001 LEC, 15:35-18:35 M, , In Person Term Based;  
Robert Kane; 3 cr.

### 6804 Community Mental Health

(Student Option; )  
57471 002 LEC, In Person Term Based; 2 cr.

### 6806 Principles of Public Health Research

(Student Option; Prereq: Pub hlt or grad or professional school student or instr consent)  
60363 001 LEC, 13:25-15:20 M, , In Person Term Based;  
Tetyana Shippee; 2 cr.

### 6807 Global Health Relief, Development, and Religious and Non-Religious NGOs

(Student Option; Prereq: Public Health or grad student or instr consent)  
55744 001 LEC, 17:40-20:30 W, , In Person Term Based;  
Kirk Allison; 3 cr.

### 6809 Advanced Methods in Health Decision Science

(Student Option No Audit; Prereq: [6717 or intro course in decision analysis], some facility with mathematical notation/reasoning)  
54483 001 LEC, 9:05-12:05 Th, , In Person Term Based;  
Karen Kuntz; 3 cr.

### 6810 Survey Research Methods

(Student Option No Audit; )  
56757 001 LEC, 14:30-15:45 TTh, , In Person Term Based;  
Todd Rockwood; 3 cr.

### 6813 Managing Electronic Health Information

(Student Option No Audit; Prereq: Admission to a University of Minnesota Masters program or Permission of instructor.)  
60904 001 LEC, 8:15-10:00 W, Mayo Bldg & Additions C381,  
In Person Term Based; Douglas Wholey; 2 cr.

### 6814 Data and Information for Population Health Management

(Student Option No Audit; Prereq: Completion or concurrent enrollment in PubH 6813, Managing Electronic Health Information, 2cr contains the skills necessary for completing the assigned paper/project in this course, PubH 6814, OR instructor permission.)  
60906 001 LEC, 8:15-10:00 M, , In Person Term Based;  
Douglas Wholey; 2 cr.

### 6835 Principles of Health Policy

(Student Option; Prereq: [Pub hlt [MPH or certificate] or pub affairs MPA or healthcare admin MHA or [health serv research, policy/admin [MS or PhD]] student or instr consent)  
61303 004 LEC, Completely Online; 2 cr.  
50462 001 LEC, 13:25-15:20 M, ONLINE, Completely Online;  
Katy Kozhimannil; 2 cr.

### 6845 Using Demographic Data for Policy Analysis

(A-F only; Prereq: [Grad level research methods course, basic statistics course] or instr consent)  
52641 001 LEC, 13:25-14:45 TTh, , In Person Term Based;  
Pinar Karaca Mandic; 3 cr.

### 6852 Program Evaluation in Health and Mental Health Settings

(A-F only; )  
50569 320 LEC, Completely Online; Judith Garrard; 2 cr.

### 6855 Medical Sociology

(Student Option; Prereq: [[Grad or professional school] student, previous experience with statistical software] or instr consent)  
52407 001 LEC, 14:30-17:30 Th, , In Person Term Based;  
Donna McAlpine; 3 cr.

### 6862 Cost-Effectiveness Analysis in Health Care

(Student Option; Prereq: instr consent; introductory econ course recommended)  
54803 001 LEC, 16:00-17:15 TTh, , In Person Term Based;  
John Nyman; 3 cr.

**6880 Introduction to Public Health****Informatics**

(A-F or Audit; Prereq: School of Public Health student or graduate student)

69043 001 LEC, 11:15-13:10 Th, , In Person Term Based; Sripriya Rajamani; 2 cr.

**6900 Topics: Public Health Nutrition**

(Student Option; )

59327 320 LEC, Completely Online; Meets With: 320 PUBH 3955; Nicole Larson; 0.5-4 cr.

**6906 Global Nutrition**

(Student Option; Prereq: Grad student)

54358 001 LEC, 16:40-18:35 T, , In Person Term Based; Shelley Cooksey; 2 cr.

**6910 Critical Review of Research in Public Health Nutrition**

(Student Option; )

56631 001 LEC, 9:05-11:00 W, , In Person Term Based; Mark Pereira; 1 cr.

**6914 Community Nutrition Intervention**

(Student Option; )

47603 001 LEC, 11:15-12:30 TTh, , In Person Term Based; Dianne Neumark-Sztainer; 3 cr.

**6933 Nutrition and Chronic Diseases**

(Student Option; )

47670 001 LEC, 12:20-14:15 W, , In Person Term Based; Lisa Harnack; 2 cr.

**7200 Topics: Public Health Practice**

(Student Option No Audit; )

57429 001 LEC, 9:00-17:00 MTWThF, Room TBA, In Person Term Based; Debra Olson; 0.5-4 cr.

**7250 Designing and Conducting Focus Group Interviews**

(Student Option No Audit; )

55848 002 LEC, 8:30-16:30 WTh, , In Person Term Based; Richard Krueger; 1 cr.  
59276 004 LEC, 8:30-16:30 WTh, , In Person Term Based; Richard Krueger; 1 cr.  
55847 001 LEC, 8:30-16:30 MT, , In Person Term Based; Richard Krueger; 1 cr.  
59275 003 LEC, 8:30-16:30 MT, , In Person Term Based; Richard Krueger; 1 cr.**7402 Biostatistics Modeling and Methods**

(Student Option; Prereq: 7401; intended for PhD students in health sciences)

54248 001 LEC, 12:20-14:15 TTh, , In Person Term Based; Weihua Guan; 4 cr.

**7406 Advanced Regression and Design**

(Student Option; Prereq: [7405, [STAT 5102 or concurrent registration is required (or allowed) in STAT 5102], biostatistics major] or instr consent)

46534 001 LEC, 14:30-16:25 TTh, , In Person Term Based; John Hughes; 4 cr.

**7407 Analysis of Categorical Data**

(Student Option; Prereq: 7405, [Stat 5102 or concurrent registration is required (or allowed) in Stat 5102 or Stat 8102 or concurrent registration is required (or allowed) in Stat 8102])

50095 001 LEC, In Person Term Based; 3 cr.

**7420 Clinical Trials: Design, Implementation, and Analysis**

(Student Option; Prereq: 6451 or concurrent registration is required (or allowed) in 6451 or 7406 or instr consent)

46533 001 LEC, 9:45-11:00 TTh, , In Person Term Based; Jim Neaton; 3 cr.

**7440 Introduction to Bayesian Analysis**

(Student Option; Prereq: [[7401 or STAT 5101 or equiv], [public health MPH or biostatistics or statistics] grad student] or instr consent)

52497 001 LEC, 13:00-14:15 TTh, , In Person Term Based; Dipankar Bandyopadhyay; 3 cr.

**7465 Biostatistics Consulting**

(Student Option; Prereq: [[7405, 7406, 7407] or [STAT 8051, STAT 8052]], [[STAT 5101, STAT 5102] or [STAT 8101, STAT 8102]], biostatistics major] or instr consent)

56746 001 LEC, 11:15-12:05 MWF, , In Person Term Based; Joe Koopmeiners; 3 cr.

**7475 Statistical Learning and Data Mining**

(Student Option; Prereq: [[[6450, 6452] or equiv], programming background in [FORTRAN or C/C++ or JAVA or Splus/R]] or instr consent; 2nd yr MS recommended)

60094 001 LEC, 11:15-12:30 TTh, Rapson Hall 56, In Person Term Based; Meets With: 001 STAT 8931001 PUBH 8475; 3 cr.

**7534 Marketing for Health Care Professionals**

(A-F only; )

59398 008 LEC, Completely Online; Geoff Kaufmann; 1 cr.

**7535 Managerial Accounting for Health Services**

(A-F or Audit; Prereq: [AHC student or instr consent], experience with spreadsheets such as Excel or Lotus recommended)

59392 320 LEC, Completely Online; Elizabeth David; 3 cr.  
59393 320 LEC, Completely Online; Elizabeth David; 3 cr.**7537 Health Finance II**

(A-F only; )

58430 001 LEC, Completely Online; Elizabeth David; 3 cr.  
58431 200 LEC, Completely Online; Elizabeth David; 3 cr.**7547 Health Care Human Resource Management**

(A-F only; )

58433 200 LEC, Completely Online; Jennifer Preston; 2 cr.  
58432 320 LEC, Completely Online; Jennifer Preston; 2 cr.**7551 Principles of Management in Health Services Organizations**

(A-F only; )

59397 200 LEC, Completely Online; James Begun; 2 cr.  
59396 320 LEC, Completely Online; James Begun; 2 cr.**7554 Health Care Strategy and Marketing**

(A-F only; )

58435 008 LEC, Completely Online; Geoff Kaufmann; 1 cr.

**7556 Health and Health Systems**

(A-F only; )

59395 200 LEC, Completely Online; Jon Christianson; 2 cr.  
59394 320 LEC, Completely Online; Jon Christianson; 2 cr.**7564 Private Purchasers of Health Care**

(A-F only; )

58428 001 LEC, In Person Term Based; Jon Christianson; 2 cr.  
58429 200 LEC, In Person Term Based; Jon Christianson; 2 cr.**7565 Health Care Delivery, Design & Innovation**

(A-F only; )

59390 001 LEC, In Person Term Based; Ryan Armbruster; 2 cr.  
59391 200 LEC, In Person Term Based; Ryan Armbruster; 2 cr.**7566 The Henry Capstone: Core Concepts in Managing Health Care Organizations**

(S-N only; )

58436 321 IND, Completely Online; Thomas Gilliam; 2 cr.  
59400 200 IND, Completely Online; Thomas Gilliam; 2 cr.  
59399 320 IND, Completely Online; Thomas Gilliam; 2 cr.**7572 Health Care Strategies in Competitive Markets**

(A-F only; )

58434 321 LEC, Completely Online; Daniel Zisner; 2 cr.  
59389 200 LEC, Completely Online; Daniel Zisner; 2 cr.  
59388 320 LEC, Completely Online; Daniel Zisner; 2 cr.**7581 Gerontology and Services for Long Term Care Residents**

(A-F or Audit; )

55320 002 LEC, 8:00-16:00 ThF, , In Person Term Based; Leslie Grant; 2-4 cr.  
48332 001 LEC, 8:00-16:00 WThF, , In Person Term Based; Leslie Grant; 2-4 cr.**7582 Practicum in Long-Term Care Administration**

(S-N or Audit; Prereq: [7580, 7581, 7583] or [7587, 7588])

49004 001 LEC, In Person Term Based; Leslie Grant; 4 cr.

**7596 Clerkship in Health Care Administration**

(A-F or Audit; Prereq: 6544, health care admin student)

53099 001 LEC, In Person Term Based; Gregory Hart; 2 cr.

**7784 Master's Project Seminar: PHAP and HSRP&A**

(A-F only; Prereq: Public health administration/policy major or health services research/policy/administration major)

54306 001 LEC, 15:35-17:30 W, , In Person Term Based; Donna McAlpine; 1 cr.

**8100 Topics: Applied Analyses of Occupational Health Data**

(Student Option; Prereq: Doctoral student in occupational health studies. Prior coursework in epidemiology, statistics)

61016 001 LEC, In Person Term Based; Elizabeth Wattenberg; 1-4 cr.

**8120 Occupational Health and Safety Research Seminar**

(S-N or Audit; Prereq: [6120, [6330 or 6341], 6450, environmental health major, [OIPRTP specialty or equiv]] or instr consent)

47002 001 LEC, In Person Term Based; Bruce Alexander; 1 cr.

**8141 Doctoral Seminar in Observational Inference**

(S-N or Audit; )

50554 001 LEC, 13:00-15:00 F, Mayo Bldg &amp; Additions 1155, In Person Term Based; George Maldonado; 2 cr.

**8142 Epidemiologic Uncertainty Analysis**

(S-N only; Prereq: 8140)

54433 001 LEC, In Person Term Based; George Maldonado; 2 cr.

**8342 Advanced Epidemiologic Methods: Applications**

(Student Option; )

56635 001 LEC, 8:15-9:30 TTh, , In Person Term Based; Darin Erickson; 3 cr.

**8412 Advanced Statistical Inference**

(Student Option; Prereq: Stat 8101-8102 or equivalent, students should be comfortable with multivariate normal distribution/have some introduction to convergence concepts)

59406 001 LEC, 9:45-11:00 MW, , In Person Term Based; Julian Wolfson; 3 cr.

**8442 Bayesian Decision Theory and Data Analysis**

(Student Option; Prereq: [[7460 or experience with FORTRAN or with [C, S+]], Stat 5101, Stat 5102, Stat 8311, grad student in [biostatistics or statistics]] or instr consent)

46574 001 LEC, 13:00-14:15 TTh, , In Person Term Based; Eric Lock; 3 cr.

**8446 Advanced Statistical Genetics and Genomics**

(Student Option; Prereq: [7445, statistical theory at level of STAT 5101-2; college-level molecular genetics course is recommended] or instr consent)

57431 001 LEC, 11:15-12:30 TTh, , In Person Term Based; Baolin Wu; 3 cr.

**8462 Advanced Survival Analysis**

(Student Option; Prereq: [7450, 8432, Stat 5102, advanced [biostatistics or statistics] major] or instr consent)

54567 001 LEC, 13:00-14:15 MW, , In Person Term Based; David Vock; 3 cr.

**8472 Spatial Biostatistics**

(Student Option; Prereq: [[STAT 5101, STAT 5102] or [STAT 8101, STAT 8102]], some experience with S-plus; STAT 8311 recommended)

54142 001 LEC, In Person Term Based; 3 cr.

**8475 Statistical Learning and Data Mining**

(Student Option; Prereq: [[[6450, 6451, 6452] or STAT 5303 or equiv], [biostatistics or statistics PhD student]] or instr consent)

60770 001 LEC, 11:15-12:30 TTh, Rapson Hall 56, In Person Term Based; Meets With: 001 STAT 8931001 PUBH 7475; 3 cr.

**8492 Theories of Hierarchical and Other Richly Parametrized Linear Models**

(A-F only; Prereq: [[8401 or STAT 8311], [[STAT 8101, STAT 8102] or equiv], [biostatistics or statistics] PhD student] or instr consent)

55550 001 LEC, 13:00-14:15 TTh, , In Person Term Based; James Hodges; 3 cr.

**8802 Health Services Policy Analysis:****Applications**(A-F or Audit; Prereq: [6835, 8801] or instr consent)  
55036 001 LEC, 13:25-15:20 W, , In Person Term Based; Lynn Blewett; 2 cr.**8804 Advanced Quantitative Methods****Seminar**

(A-F or Audit; Prereq: This is an advanced, doctoral-level course. Students are expected to have completed a full year of doctoral-level introductory statistical and/or econometric classes in their respective field prior to enrolling in this course (e.g., PubH 7401-2, ApEc8211-2, SOC 8801-8811). Exceptions may be granted with instr consent.)

59063 001 LEC, 9:05-12:05 F, , In Person Term Based; Ezra Golberstein; 3 cr.

**8813 Measurement of Health-Related Social Factors**

(A-F or Audit; Prereq: Intro stat course, understanding of simple correlations or instr consent)

55321 001 LEC, 13:25-14:45 MW, , In Person Term Based; Todd Rockwood; 3 cr.

**8821 Health Economics II**

(A-F or Audit; Prereq: 8820 or instr consent)

55322 001 LEC, 17:25-20:25 W, , In Person Term Based; Roger Feldman; 3 cr.

**8830 Writing for Research**

(Student Option No Audit; Prereq: HSRPA PhD student or instr consent)

55083 001 LEC, 10:10-12:05 T, , In Person Term Based; Bryan Dowd; 2 cr.

**8893 Directed Study: Health Services****Research, Policy, and Administration**  
(Student Option; Prereq: HSRPA grad student, instr consent)50472 003 IND, In Person Term Based; ; 1-3 cr.  
50471 002 IND, In Person Term Based; John Nyman; 1-3 cr.  
50470 001 IND, In Person Term Based; ; 1-3 cr.**8894 Directed Research: Health Services****Research, Policy, and Administration**  
(Student Option; Prereq: HSRPA grad student, instr consent)58139 005 IND, In Person Term Based; 1-8 cr.  
50473 002 IND, In Person Term Based; Donna McAlpine; 1-8 cr.  
58138 004 IND, In Person Term Based; Kirk Allison; 1-8 cr.  
50474 003 IND, In Person Term Based; Pinar Karaca Mandic; 1-8 cr.  
49052 001 IND, In Person Term Based; Douglas Wholey; 1-8 cr.**Radiology (RAD)****121 Medical Roentgenologic Conference**(Student Option; )  
49641 001 LEC, In Person Term Based; 0 cr.**123 Surgical Roentgenologic Conference**(Student Option; )  
49642 001 LEC, In Person Term Based; 0 cr.**124 Neurosurgical-Roentgenologic****Conference**  
(Student Option; )  
49643 001 LEC, In Person Term Based; 0 cr.**125 Cardiovascular Roentgenologic****Conference**  
(Student Option; )  
49644 001 LEC, In Person Term Based; 0 cr.**7101 Externship in Diagnostic Radiology at****Fairview-University Medical Center**  
(H-N or Audit; )

49645 001 ROT, In Person Term Based; Linda Meyer; 3 cr.

**7102 Externship in Diagnostic Radiology at VA Medical Center**(H-N or Audit; )  
49646 001 ROT, In Person Term Based; Linda Meyer; 3 cr.**7103 Externship in Medical Imaging at****Hennepin County Medical Center**  
(H-N or Audit; )  
49647 001 ROT, In Person Term Based; Linda Meyer; 2-3 cr.**7104 Externship: Diagnostic Radiology--****Regions Medical Center**  
(H-N or Audit; Prereq: enrolled med)  
49648 001 LEC, In Person Term Based; Linda Meyer; 1-15 cr.**7105 Externship in Radiology - Duluth**(H-N or Audit; Prereq: One med and one surg clkshp)  
49649 001 ROT, In Person Term Based; Linda Meyer; 3 cr.**7110 Research Problems in Radiology**(H-N or Audit; )  
49650 001 IND, In Person Term Based; Linda Meyer; 1-15 cr.**7140 Special Problems: Roentgenology**(H-N or Audit; Prereq: enrolled med)  
49651 001 LEC, In Person Term Based; Linda Meyer; 1-15 cr.**7240 Special Problems: Nuclear Medicine**(H-N or Audit; Prereq: enrolled med)  
49652 001 LEC, In Person Term Based; Linda Meyer; 1-15 cr.**7530 Nuclear Medicine**(H-N or Audit; )  
49653 001 FWK, In Person Term Based; Linda Meyer; 3 cr.**7910 Radiology Medical Residency**(No Grade Associated; )  
56696 001 FWK, In Person Term Based; 6 cr.**7930 Radiology Medical Fellowship**(No Grade Associated; )  
56695 001 FWK, In Person Term Based; 6 cr.**8200 Nuclear Medicine**(Student Option; )  
49654 001 LEC, In Person Term Based; Linda Meyer; 1-15 cr.**8210 Fundamentals of Nuclear Medicine**(Student Option; Prereq: 1st-yr resident)  
49655 001 LEC, In Person Term Based; Linda Meyer; 1 cr.**8250 Research: Nuclear Medicine**(Student Option; )  
49656 001 LEC, In Person Term Based; Linda Meyer; 1-15 cr.**Rec, Park, and Leisure Studies****(REC)****1501 Orientation to Leisure and Recreation**(A-F only; )  
46532 001 LEC, 9:35-12:05 F, Cooke Hall 215, In Person Term Based; Sean Morrissey; 3 cr.**2151 Outdoor and Camp Leadership**(A-F only; )  
55480 001 LEC, 18:00-20:30 M, Room TBA, 15:30-21:00 Th, No Room Required, 9:00-21:00 FSaSu, No Room Required, In Person Term Based; Gregory Lais; 3 cr.**3322 Outdoor Recreation Winter Skills**(A-F only; Prereq: Student will not receive credit if they have previously taken REC 4900/5900 - Special Topics with this topic title)  
60829 001 LEC, 9:00-14:00 F, Cooke Hall 206, 9:00-17:00 F, Cooke Hall 206, 9:00-21:00 FSa, No Room Required, 9:00-11:00 F, Cooke Hall 206, In Person Term Based; Mitchell Hoffman; 3 cr.**3551 Administration and Finance of****Leisure Services**  
(A-F only; Prereq: [3541W or instr consent], rec major)

46565 001 LEC, 11:15-12:30 MW, Keller Hall 2-260, In Person Term Based; Tony Brown; 4 cr.

**3601W Leisure and Human Development**(A-F only; Prereq: REC major or instr consentW)  
53256 001 LEC, Completely Online; Connie Magnuson; 3 cr.**3796 Senior Internship in Recreation, Park, and Leisure Studies**(S-N only; Prereq: Rec major, completion of most core courses, sr, instr consent)  
46710 001 FWK, In Person Term Based; Connie Magnuson; 3-9 cr.**3993 Directed Study in Recreation, Park, and Leisure Studies**(A-F only; Prereq: Rec major, instr consent)  
53930 001 IND, In Person Term Based; 1-9 cr.  
51208 002 IND, In Person Term Based; 1-9 cr.  
48640 003 IND, In Person Term Based; 1-9 cr.  
51209 012 IND, In Person Term Based; 1-9 cr.  
48716 006 IND, In Person Term Based; Connie Magnuson; 1-9 cr.**4161 Recreation Land Policy**(A-F only; )  
68559 001 LEC, 18:00-20:30 M, Akerman Hall 313, In Person Term Based; Alexander McKinney; 3 cr.**4191 Adventure Recreation, Tourism, and Eco-Tourism**(A-F only; )  
57423 504 LEC, Study Abroad; Sean Morrissey; 3 cr.**4301 Wilderness and Adventure Education**(A-F only; )  
55761 502 LEC, Study Abroad; 4 cr.  
57424 504 LEC, Study Abroad; Gregory Lais; 4 cr.**4311 Programming Outdoor & Env Ed**(A-F only; Prereq: REC major or ORE minor or instr consent)  
56783 504 LEC, Study Abroad; Connie Magnuson; 3 cr.  
57552 001 LEC, 9:00-16:30 FSaSu, Room TBA, 9:00-16:30 FSaSu, Room TBA, In Person Term Based; Connie Magnuson; 3 cr.**4900 Special Topics: Contemporary Issues in Leisure Services**(Student Option; )  
54945 002 LEC, 18:00-21:30 Th, Room TBA, 9:00-17:00 SaSu, Room TBA, In Person Term Based; Connie Magnuson; 1-12 cr.**5995 Problems in Recreation, Park, and Leisure Studies**(A-F only; Prereq: [REC MEd or grad student], instr consent)  
53931 001 IND, In Person Term Based; 1-9 cr.  
48845 003 IND, In Person Term Based; 1-9 cr.  
51213 012 IND, In Person Term Based; 1-9 cr.  
51212 002 IND, In Person Term Based; 1-9 cr.  
48846 006 IND, In Person Term Based; Connie Magnuson; 1-9 cr.**Rehabilitation Science (RSC)****5100 Hot Topics in the Biology of Aging**(Student Option; Prereq: instr consent dept consent)  
58100 001 LEC, In Person Term Based; LaDora Thompson; 1 cr.**5101 Mathematical Tools for Research****Applications in Health, Rehab, and Human Movement Sciences**  
(A-F or Audit; Prereq: Basic algebra, trigonometry, and geometry. Pre-calculus or calculus is helpful but not required.)  
58098 001 LEC, In Person Term Based; Paula Ludewig; 1 cr.**5235 Advanced Biomechanics II: Kinetics**(A-F or Audit; Prereq: 5135 or equiv or instr consent)  
55674 001 LEC, 13:00-14:30 TTh, Civil Engineering Bldg 213, In Person Term Based; Meets With: 001 KIN 5235; ; 3 cr.**5294 Independent Study in Rehabilitation Science**

(Student Option; Prereq: Rehabilitation science student or program approval)

52741 003 IND, In Person Term Based; Bernadette Gillick; 1-3 cr.  
 52743 005 IND, In Person Term Based; Carl Kukulka; 1-3 cr.  
 52745 007 IND, In Person Term Based; David Nuckley; 1-3 cr.  
 52744 006 IND, In Person Term Based; Dawn Lowe; 1-3 cr.  
 52740 002 IND, In Person Term Based; James Carey; 1-3 cr.  
 52747 009 IND, In Person Term Based; LaDora Thompson; 1-3 cr.  
 52746 008 IND, In Person Term Based; LeAnn Snow; 1-3 cr.  
 47869 001 IND, In Person Term Based; Paula Ludewig; 1-3 cr.  
 52748 010 IND, In Person Term Based; Peggy Martin; 1-3 cr.  
 52742 004 IND, In Person Term Based; Teresa Kimberley, PT.; 1-3 cr.  
 55125 011 IND, In Person Term Based; Virgil Mathiowetz; 1-3 cr.

### 5841 Rehabilitation Science

#### Instrumentation and Methodology

(A-F or Audit; Prereq: [[Phys 1031, Phys 1032] or equiv], instr consent, [rehabilitation science student or program permission])

58099 001 LAB, 14:00-15:30 MW, , In Person Term Based; Carl Kukulka; 4 cr.

### 8170 Special Topics in Rehabilitation Science

(A-F or Audit; Prereq: [Rehabilitation science student or program permission], instr consent)

52759 003 LEC, In Person Term Based; Bernadette Gillick; 1-3 cr.  
 52761 005 LEC, In Person Term Based; Carl Kukulka; 1-3 cr.  
 52763 007 LEC, In Person Term Based; David Nuckley; 1-3 cr.  
 52762 006 LEC, In Person Term Based; Dawn Lowe; 1-3 cr.  
 52758 002 LEC, In Person Term Based; James Carey; 1-3 cr.  
 52765 009 LEC, In Person Term Based; LaDora Thompson; 1-3 cr.  
 52764 008 LEC, In Person Term Based; LeAnn Snow; 1-3 cr.  
 53288 001 LEC, In Person Term Based; Paula Ludewig; 1-3 cr.  
 52766 010 LEC, In Person Term Based; Peggy Martin; 1-3 cr.  
 52760 004 LEC, In Person Term Based; Teresa Kimberley, PT.; 1-3 cr.  
 55126 011 LEC, In Person Term Based; Virgil Mathiowetz; 1-3 cr.

### 8185 Problems in Rehabilitation Science

(Student Option; Prereq: [Rehabilitation science student or program permission], instr consent)

52750 003 IND, In Person Term Based; Bernadette Gillick; 1-3 cr.  
 52752 005 IND, In Person Term Based; Carl Kukulka; 1-3 cr.  
 52754 007 IND, In Person Term Based; David Nuckley; 1-3 cr.  
 52753 006 IND, In Person Term Based; Dawn Lowe; 1-3 cr.  
 52749 002 IND, In Person Term Based; James Carey; 1-3 cr.  
 52756 009 IND, In Person Term Based; LaDora Thompson; 1-3 cr.  
 52755 008 IND, In Person Term Based; LeAnn Snow; 1-3 cr.  
 47871 001 IND, In Person Term Based; Paula Ludewig; 1-3 cr.  
 52757 010 IND, In Person Term Based; Peggy Martin; 1-3 cr.  
 52751 004 IND, In Person Term Based; Teresa Kimberley, PT.; 1-3 cr.  
 55127 011 IND, In Person Term Based; Virgil Mathiowetz; 1-3 cr.

### 8188 Teaching Practicum

(A-F or Audit; Prereq: [Rehabilitation science student or program permission], instr consent)

53291 003 FWK, In Person Term Based; Bernadette Gillick; 1-5 cr.  
 53293 005 FWK, In Person Term Based; Carl Kukulka; 1-5 cr.  
 53295 007 FWK, In Person Term Based; David Nuckley; 1-5 cr.  
 53294 006 FWK, In Person Term Based; Dawn Lowe; 1-5 cr.  
 53290 002 FWK, In Person Term Based; James Carey; 1-5 cr.  
 53297 009 FWK, In Person Term Based; LaDora Thompson; 1-5 cr.  
 53296 008 FWK, In Person Term Based; LeAnn Snow; 1-5 cr.  
 53289 001 FWK, In Person Term Based; Paula Ludewig; 1-5 cr.  
 53298 010 FWK, In Person Term Based; Peggy Martin; 1-5 cr.  
 53292 004 FWK, In Person Term Based; Teresa Kimberley, PT.; 1-5 cr.  
 58101 011 FWK, In Person Term Based; Virgil Mathiowetz; 1-5 cr.

### 8235 Human Kinetics

(A-F or Audit; Prereq: [5135 or equiv] or instr consent)

56586 001 LEC, In Person Term Based; 3 cr.

### 8282 Problems in Human Movement

(A-F or Audit; Prereq: [Rehabilitation science student or program permission], instr consent)

49938 001 LEC, 13:25-14:55 TTh, , In Person Term Based; Meets With: 001 PT 6282; Teresa Kimberley, PT.; 4 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49161 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49253 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49357 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49463 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer, 24 cr required; RSC doctoral student who has successfully passed the prelim written exam, dept consent)

49559 001 IND, In Person Term Based; 1-24 cr.

## Religious Studies (RELS)

### 1001 Introduction to the Religions of the World

(Student Option; GP)

57781 001 LEC, 18:20-20:50 T, Nicholson Hall 155, In Person Term Based; Aaron Thompson; 3 cr.

### 1082 Jesus in History

(Student Option; )

68534 001 LEC, 13:25-14:15 WF, Rapson Hall 45, In Person Term Based; Meets With: 001 CNES 1082001 CNES 1082H001 RELS 1082H; Stephen Ahearne-Kroll; 3 cr.  
 68536 003 DIS, 13:25-14:15 M, Nicholson Hall 120, In Person Term Based; Meets With: 003 CNES 1082; Aaron Thompson; 3 cr.  
 68535 002 DIS, 13:25-14:15 M, Nicholson Hall 315, In Person Term Based; Meets With: 002 CNES 1082; Aaron Thompson; 3 cr.

### 1082H Honors Course: Jesus in History

(Student Option; Prereq: honors)

68537 001 LEC, 13:25-14:15 WF, Rapson Hall 45, In Person Term Based; Meets With: 001 CNES 1082001 CNES 1082H001 RELS 1082; Stephen Ahearne-Kroll; 4 cr.  
 68538 002 DIS, 13:25-14:15 M, Bruininks Hall 119, In Person Term Based; Meets With: 002 CNES 1082H; Stephen Ahearne-Kroll; 4 cr.

### 3001W Theory and Method in Religion:

Critical Approaches to the Study of Religion

(Student Option; WI)

58399 001 DIS, 16:00-17:15 MW, Peik Hall 335, In Person Term Based; Meets With: 001 RELS 5001; Jeanne Kilde; 3 cr.

### 3202 Prophecy in Ancient Israel

(Student Option; Prereq: 1001 or CNES 1201 or CNES 3201)

68554 001 LEC, 14:30-15:45 MW, Rapson Hall 13, In Person Term Based; Meets With: 001 CNES 3202001 JWST 3202; Hanne Levinson; 3 cr.

### 3321 American Indian Philosophies

(Student Option; AH,DSJ)

57335 001 LEC, 8:15- 9:30 TTh, Nicholson Hall 155, In Person Term Based; Meets With: 002 AMIN 3301; Alex Ghebrezgi; 4 cr.

### 3623 Religion and the American Culture Wars

(Student Option; HIS)

57546 001 LEC, 9:45-11:00 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 HIST 3804; Kirsten Fischer; 3 cr.

### 3714 Islam and the West

(Student Option; )

68489 001 LEC, 10:10-11:00 MWF, Blegen Hall 135, In Person Term Based; Meets With: 001 HIST 3546; Iraj Bashiri; 3 cr.

### 3993 Directed Studies

(Student Option; )

47422 001 IND, In Person Term Based; Jeanne Kilde; 1-4 cr.

### 4049 Religion and Culture

(Student Option; Prereq: 1005 or ANTH 1003 or instr consent)

68570 001 LEC, 16:00-17:15 MW, Nicholson Hall 145, In Person Term Based; Meets With: 001 ANTH 4049; Hoon Song; 3 cr.

### 5001 Theory and Method in the Study of Religion: Critical Approaches to the Study of Religion

(Student Option; Prereq: Sr or grad student or instr consent)

58400 001 DIS, 16:00-17:15 MW, Peik Hall 335, In Person Term Based; Meets With: 001 RELS 3001W; Jeanne Kilde; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent)

47679 001 IND, In Person Term Based; 1-4 cr.

## Retail Merchandising (RM)

### 1201 Fashion, Ethics, and Consumption

(Student Option; CIV)

56875 001 LEC, Completely Online; ; 3 cr.  
 67494 002 LEC, In Person Term Based; Julie Hillman; 3 cr.

### 2215 Introduction to Retail Merchandising

(A-F or Audit; )

56280 001 LEC, Completely Online; ; 3 cr.

### 3124 Consumers of Design

(A-F only; Prereq: retail merchandising major or minor)

65576 001 DIS, 10:15-11:30 TTh, McNeal Hall 250, In Person Term Based; ; 3 cr.

### 3201 Career and Internship Preparation for Retail Merchandising

(A-F only; Prereq: Retail merchandising major)

56281 001 LEC, 10:40-11:30 W, McNeal Hall 395, In Person Term Based; 1 cr.

### 3243 Visual Merchandising

(A-F or Audit; Prereq: 2215, [DHA major or minor or instr consent])

57840 001 LEC, 10:40-13:25 M, McNeal Hall 305, In Person Term Based; Juanjuan Wu; 3 cr.

### 4117W Retail Environments and Human Behavior

(A-F only; Prereq: 2215 or DHA 2215, [jr or sr or grad student], [design major or minor or instr consent][WI])

57649 001 DIS, Completely Online; Juanjuan Wu; 3 cr.

### 4160H Honors Capstone Project

(A-F only; Prereq: Retail merchandising honors)

56283 001 LEC, In Person Term Based; ; 2 cr.  
 56284 002 LEC, In Person Term Based; Hye-Young Kim; 2 cr.  
 58353 004 LEC, In Person Term Based; Hyunjoo Im; 2 cr.  
 56285 003 LEC, In Person Term Based; Juanjuan Wu; 2 cr.

### 4193 Directed Study in Retail Merchandising

(A-F or Audit; Prereq: Undergrad, instr consent)

56286 001 IND, In Person Term Based; ; 1-4 cr.  
 56287 002 IND, In Person Term Based; Hye-Young Kim; 1-4 cr.  
 58354 004 IND, In Person Term Based; Hyunjoo Im; 1-4 cr.  
 56288 003 IND, In Person Term Based; Juanjuan Wu; 1-4 cr.

### 4212W Dress, Society, and Culture

(A-F or Audit; Prereq: [Jr or sr or grad student], [design major or minor or instr consent][WI])

56292 001 LEC, Completely Online; ; 3 cr.  
 65573 002 LEC, In Person Term Based; ; 3 cr.

**4217 International Retail Markets**

(A-F or Audit; Prereq: 2215 or DHA 2215, [jr or sr or grad student], [DHA major or minor or instr consent]GP)

56293 001 LEC, 11:45-13:00 TTh, McNeal Hall 144, In Person Term Based; Hye-Young Kim; 3 cr.

**4247 Advanced Buying and Sourcing**

(A-F or Audit; Prereq: 2215, 3242 or DHA 2215, [DHA major or minor or instr consent])

56294 001 LEC, 8:45-10:00 TTh, McNeal Hall 395, In Person Term Based; Julie Hillman; 3 cr.

**4248 Creative Leadership in Retailing**

(A-F only; )

68232 001 LEC, 15:00-16:15 MW, McNeal Hall 395, In Person Term Based; Julie Hillman; 3 cr.

**Russian (RUSS)****1102 Beginning Russian II**

(Student Option; Prereq: 1101 or equiv)

47231 003 DIS, 18:10-21:30 T, Folwell Hall 106, In Person Term Based; Meets With: 003 RUSS 4102; 5 cr.

47229 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 001 RUSS 4102; Nadya Clayton; 5 cr.

47230 002 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 002 RUSS 4102; Natalia Krylova; 5 cr.

**3002 Intermediate Russian II**

(Student Option; Prereq: 3001 or instr consent)

55305 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 001 RUSS 4104; Nadya Clayton; 5 cr.

55306 002 DIS, 18:10-21:30 Th, Folwell Hall 5, In Person Term Based; Meets With: 002 RUSS 4104; Natalia Krylova; 5 cr.

**3102 Advanced Russian II**

(Student Option; Prereq: 3101 or 4111 or instr consent)

47168 001 DIS, 14:30-15:20 MTWTh, Folwell Hall 32, In Person Term Based; Meets With: 002 RUSS 4112; Natalia Krylova; 4 cr.

**3311V Honors Major Project in Russian**

(A-F only; Prereq: Advanced Russian majorWI)

49494 001 IND, In Person Term Based; Gary Jahn; 3-4 cr.

**3311W Russian Major Project**

(A-F or Audit; Prereq: Advanced Russian majorWI)

47169 001 IND, In Person Term Based; Gary Jahn; 3 cr.

**3404 Tolstoy in Translation**

(Student Option; GP,LITR)

68749 001 DIS, 13:00-14:15 TTh, Folwell Hall 6, In Person Term Based; Meets With: 001 RUSS 5404; Gary Jahn; 3 cr.

**3411 Dostoevsky in Translation**

(Student Option; GP,LITR)

59794 001 DIS, 13:00-14:15 TTh, Room TBA, In Person Term Based; Meets With: 001 RUSS 5411; Gary Jahn; 3 cr.

**3422 Literature: Tolstoy to the Present in Translation**

(Student Option; LITR)

47170 001 DIS, 13:25-14:15 MWF, Folwell Hall 116, In Person Term Based; Meets With: 001 RUSS 5422; Nadya Clayton; 3 cr.

**3900 Topics in Russian Language, Literature, and Culture**

(Student Option; Prereq: 1102 for language topics)

66380 001 DIS, 9:45-11:00 TTh, Folwell Hall 6, In Person Term Based; Gary Jahn; 1-4 cr.

**3993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)

47172 001 IND, In Person Term Based; 1-4 cr.

**4102 Beginning Russian II**

(Student Option; Prereq: 4101, [fourth sem course in another language or grad student])

55311 003 DIS, 18:10-21:30 T, Folwell Hall 106, In Person Term Based; Meets With: 003 RUSS 1102; 3 cr.

55309 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 001 RUSS 1102; Nadya Clayton; 3 cr.

55310 002 DIS, 12:20-13:10 MTWThF, Kolthoff Hall 135, In Person Term Based; Meets With: 002 RUSS 1102; Natalia Krylova; 3 cr.

**4104 Intermediate Russian II**

(Student Option; Prereq: 4103, [fourth sem course in another language or grad student])

55307 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 001 RUSS 3002; Nadya Clayton; 3 cr.

55308 002 DIS, 18:10-21:30 Th, Folwell Hall 5, In Person Term Based; Meets With: 002 RUSS 3002; Natalia Krylova; 3 cr.

**4112 Advanced Russian II**

(Student Option; Prereq: 3101 or 4111 or instr consent)

59162 002 DIS, 14:30-15:20 MTWTh, Folwell Hall 32, In Person Term Based; Meets With: 001 RUSS 3102; Natalia Krylova; 2 cr.

**5404 Tolstoy in Translation**

(Student Option; GP,LITR)

68750 001 DIS, 13:00-14:15 TTh, Folwell Hall 6, In Person Term Based; Meets With: 001 RUSS 3404; Gary Jahn; 3 cr.

**5411 Dostoevsky in Translation**

(Student Option; )

59795 001 DIS, 13:00-14:15 TTh, Room TBA, In Person Term Based; Meets With: 001 RUSS 3411; Gary Jahn; 3 cr.

**5422 Literature: Tolstoy to the Present in Translation**

(Student Option; )

47171 001 DIS, 13:25-14:15 MWF, Folwell Hall 116, In Person Term Based; Meets With: 001 RUSS 3422; Nadya Clayton; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)

48919 001 IND, In Person Term Based; 1-4 cr.

**Scandinavian (SCAN)****3504 Emigration, Immigration, Integration: The Nordic Experience**

(Student Option; GP,HIS)

67399 001 DIS, In Person Term Based; Lena Norrman; 3 cr.

**3505 Scandinavian Fiction From 1890 to Present**

(Student Option; LITR)

67400 001 DIS, 9:05-9:55 MWF, Folwell Hall 123, In Person Term Based; Hanna Zmijewska-Emerson; 3 cr.

**3602 The Literary Fairy Tale in Scandinavia**

(Student Option; LITR)

68934 001 DIS, 13:00-14:15 TTh, Ford Hall B29, In Person Term Based; William Banks; 3 cr.

**3614 Blood on Snow: Scandinavian Thrillers in Fiction and Film**

(Student Option; GP,LITR)

67401 001 DIS, 9:45-11:00 TTh, Folwell Hall 12, In Person Term Based; Meets With: 001 SCAN 5614; William Banks; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)

47740 001 IND, In Person Term Based; ; 1-4 cr.

**5502 The Icelandic Saga**

(Student Option; )

67405 001 DIS, 17:00-19:30 W, Folwell Hall 107, In Person Term Based; Anatoly Liberman; 3 cr.

**5614 Blood on Snow: Scandinavian Thrillers in Fiction and Film**

(Student Option; )

67406 001 DIS, 9:45-11:00 TTh, Folwell Hall 12, In Person Term Based; Meets With: 001 SCAN 3614; William Banks; 3 cr.

**5710 Topics in Old Norse Literature**

(Student Option; Prereq: 5701 or equiv)

56869 001 LEC, 13:00-14:15 MW, Folwell Hall 107, In Person Term Based; Anatoly Liberman; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)

47741 001 IND, In Person Term Based; 1-4 cr.

**8994 Directed Research**

(Student Option; Prereq: instr consent; may be taken as tutorial with instr consent, dept consent)

47820 001 IND, In Person Term Based; 1-3 cr.

**Scientific Computation (SCIC)****8190 Supercomputer Research Seminar**

(Student Option; Prereq: Undergrad degree in field using sci comp or instr consent)

54835 001 LEC, In Person Term Based; 1 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49163 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49255 001 IND, In Person Term Based; 1 cr.

**8594 Scientific Computation Directed Research**

(Student Option; Prereq: Undergrad degree in field using sci comp or instr consent)

47952 001 IND, In Person Term Based; 1-4 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49359 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49464 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

49561 001 IND, In Person Term Based; 1-24 cr.

**Security Technologies (ST)****8113 Information and Cyber Security**

(A-F only; )

57094 001 LEC, In Person Term Based; Damian Damiani; 2 cr.

**8200 Special Topics in Security Technologies**

(A-F only; )

58180 001 DIS, In Person Term Based; Brian Isle; 0.5 cr.

**8220 Vulnerability, Risk and Threat Assessment and Management**

(A-F only; Prereq: Admitted to MSST grad program)

57093 001 LEC, In Person Term Based; Alfred Marcus; 3 cr.

**8441 Internship (optional)**

(A-F only; )

58181 001 LEC, In Person Term Based; Brian Isle; 0.5 cr.

**8512 Partnership in Conflict Management: Security/Privacy Law, Social Responsibility and Ethics**

(A-F only; Prereq: MSST grad student)

57095 001 LEC, In Person Term Based; Damian Damiani; 2 cr.

**8620 Capstone**

(A-F only; Prereq: MSST grad program student)

57096 001 LEC, In Person Term Based; Damian Damiani; 0.5-2 cr.

**8660 Independent Study**

(A-F only; )

61098 001 IND, 17:30-21:30 M, Bruininks Hall 123, In Person Term Based; Damian Damiani; 1-4 cr.







(No Grade Associated; Prereq: Master's student, [adviser, DGS] consent)  
50288 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, [adviser, DGS] consent)  
50289 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
50290 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Plan A)  
50291 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credits: Doctoral**

(No Grade Associated; )  
50292 001 IND, In Person Term Based; 1-24 cr.

## Social/Administrative Pharmacy (SAPH)

**5610 Pharmacoepidemiology**

(A-F only; )  
58156 001 LEC, In Person Term Based; Jon Schommer; 3 cr.

**8054 Advanced Studies in Pharmaceutical Care Practice**

(A-F or Audit; )  
58157 001 IND, In Person Term Based; Valorie Cremin; 3 cr.

**8100 Seminar**

(A-F only; Prereq: Grad SAPH major or instr consent)  
52357 001 LEC, 15:30-17:00 Th, , In Person Term Based; Meets With: 001 PHAR 6250; Jon Schommer; 1 cr.  
55193 002 LEC, In Person Term Based; Jon Schommer; 1 cr.

**8173 Principles and Methods of Implementing Research**

(Student Option; Prereq: Two grad stat courses)  
48600 001 LEC, In Person Term Based; 3 cr.

**8200 Research Problems**

(Student Option; Prereq: Grad SAPH major or instr consent)  
49835 002 IND, 13:25-15:20 W, , In Person Term Based; Debra Skaar; 1-8 cr.  
49487 001 IND, In Person Term Based; Valorie Cremin; 1-8 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
57615 001 IND, In Person Term Based; 1 cr.

**8420 Social and Behavioral Aspects of Pharmacy Practice**

(A-F or Audit; Prereq: Grad SAPH major or instr consent)  
48930 001 LEC, In Person Term Based; Jon Schommer; 3 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
57616 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
57617 001 IND, In Person Term Based; 1-6 cr.

**8702 Hospital Pharmacy Survey**

(Student Option; Prereq: Grad SAPH major or instr consent)  
54509 001 LEC, In Person Term Based; 1 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
57618 001 IND, In Person Term Based; 1-18 cr.

**8810 Social Psychology of Health Care**

(Student Option; Prereq: Grad SAPH major or instr consent)  
55806 001 LEC, In Person Term Based; 3 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
57619 001 IND, In Person Term Based; 1-24 cr.

## Sociology (SOC)

**1001 Introduction to Sociology**

(Student Option; DSJ,SOCs)  
46537 004 DIS, 8:40- 9:30 W, Blegen Hall 105, In Person Term Based; Cawo Abdi; 4 cr.  
46536 002 DIS, 11:15-12:05 M, Blegen Hall 225, In Person Term Based; Cawo Abdi; 4 cr.  
55291 005 DIS, 8:40- 9:30 W, Blegen Hall 115, In Person Term Based; Cawo Abdi; 4 cr.  
68059 008 DIS, 11:15-12:05 W, Blegen Hall 230, In Person Term Based; Cawo Abdi; 4 cr.  
50500 006 DIS, 11:15-12:05 W, Blegen Hall 260, In Person Term Based; Cawo Abdi; 4 cr.  
55290 007 DIS, 11:15-12:05 W, Blegen Hall 430, In Person Term Based; Cawo Abdi; 4 cr.  
46544 024 DIS, 16:25-17:15 T, Blegen Hall 105, In Person Term Based; Douglas Hartmann; 4 cr.  
46542 022 DIS, 16:25-17:15 T, Blegen Hall 150, In Person Term Based; Douglas Hartmann; 4 cr.  
60991 025 DIS, 8:10- 9:00 T, Blegen Hall 115, In Person Term Based; Douglas Hartmann; 4 cr.  
46543 023 DIS, 16:25-17:15 T, Blegen Hall 430, In Person Term Based; Douglas Hartmann; 4 cr.  
46539 014 DIS, 9:05- 9:55 W, Blegen Hall 225, In Person Term Based; Nicholas Wahutu; 4 cr.  
55294 015 DIS, 9:05- 9:55 W, Blegen Hall 205, In Person Term Based; Nicholas Wahutu; 4 cr.  
60999 017 DIS, 9:05- 9:55 F, Blegen Hall 230, In Person Term Based; Nicholas Wahutu; 4 cr.  
55292 012 DIS, 11:15-12:05 M, Blegen Hall 260, In Person Term Based; Nicholas Wahutu; 4 cr.  
46540 016 DIS, 9:05- 9:55 W, Blegen Hall 430, In Person Term Based; Nicholas Wahutu; 4 cr.  
55293 013 DIS, 11:15-12:05 M, Blegen Hall 430, In Person Term Based; Nicholas Wahutu; 4 cr.  
46535 001 LEC, 9:45-11:00 MW, Blegen Hall 5, In Person Term Based; Cawo Abdi; 4 cr.  
46541 021 LEC, 17:30-20:00 T, Anderson Hall 230, In Person Term Based; Douglas Hartmann; 4 cr.  
50499 003 DIS, 11:15-12:05 M, Blegen Hall 205, In Person Term Based; Cawo Abdi; 4 cr.  
46538 011 LEC, 10:10-11:00 MWF, Anderson Hall 270, In Person Term Based; Ann Miller; 4 cr.

**1011V Honors: Introduction to Sociology**

(A-F only; DSJ,WI,SOCs)  
46550 001 LEC, 12:20-14:15 MW, Blegen Hall 215, In Person Term Based; Ann Meier; 4 cr.

**1101 Law, Crime, & Punishment**

(A-F or Audit; )  
60481 001 LEC, 11:15-12:30 TTh, Blegen Hall 317, In Person Term Based; Gabrielle Ferrales; 3 cr.

**3090 Topics in Sociology**

(Student Option; Prereq: Soph or above or instr consent; 1001 recommended; soc majors must register A-F; cr will not be granted if cr has been received for the same topics title)  
67746 002 LEC, 13:00-14:15 TTh, Blegen Hall 110, In Person Term Based; Jeffrey Broadbent; 3 cr.  
58401 001 LEC, 11:15-12:30 MW, Blegen Hall 135, In Person Term Based; Elizabeth Boyle; 3 cr.

**3101 Sociological Perspectives on the Criminal Justice System**

(A-F or Audit; CIV)  
50501 001 LEC, 9:45-11:00 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 SOC 3101H; Joshua Page; 3 cr.

**3101H Honors: Sociological Perspectives on the Criminal Justice System**

(A-F only; CIV)  
68035 001 LEC, 9:45-11:00 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 SOC 3101; Joshua Page; 3 cr.

**3102 Criminal Behavior and Social Control**

(Student Option; Prereq: Soc majors/minors must register A-F)

50502 001 LEC, 18:00-20:30 M, Blegen Hall 255, In Person Term Based; Rossella Selmini; 3 cr.

**3251W Sociological Perspectives on Race, Class, and Gender**

(A-F or Audit; Prereq: Soc majors/minors must register A-FDSJ,WI,SOCs)  
56937 001 LEC, 11:15-12:30 MW, Blegen Hall 120, In Person Term Based; Enid Logan; 3 cr.

**3322W Social Movements, Protests, and Change**

(Student Option; Prereq: 1001 or instr consent; soc majors/minors must register A-FCIV,WI)  
67759 001 LEC, 9:45-11:00 TTh, Blegen Hall 120, In Person Term Based; Jeffrey Broadbent; 3 cr.

**3412 Social Networking: Theories and Methods**

(A-F only; TS)  
68233 001 LEC, 14:30-15:45 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 SOC 3412H; David Knoke; 3 cr.

**3412H Honors: Social Networking: Theories and Methods**

(A-F only; TS)  
68234 001 LEC, 14:30-15:45 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 SOC 3412; David Knoke; 3 cr.

**3451W Cities & Social Change**

(Student Option; Prereq: 1001 recommended, Soc majors/minors must register A-FWI)  
67760 001 LEC, 17:30-20:00 T, Hubert H. Humphrey Center 25, In Person Term Based; Teresa Gowan; 3 cr.

**3503 Asian American Identities, Families & Communities**

(Student Option; Prereq: 1001 recommended DSJ,SOCs)  
58453 001 LEC, 13:00-14:15 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 AAS 3503001 SOC 3503H; Teresa Swartz; 3 cr.

**3503H Honors: Asian American Identities, Families & Communities**

(A-F only; Prereq: 1001 recommended DSJ,SOCs)  
60591 001 LEC, 13:00-14:15 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 SOC 3503001 AAS 3503; Teresa Swartz; 3 cr.

**3505 Transnational Migration: Networks of Power and Places**

(A-F or Audit; Prereq: Soph, jr, or srGP)  
67761 001 LEC, 13:00-14:15 MW, Blegen Hall 220, In Person Term Based; Meets With: 001 GLOS 3705; Cawo Abdi; 3 cr.

**3701 Social Theory**

(A-F or Audit; Prereq: 1001 recommended; soc majors/minors must register A-F)  
46585 002 LEC, 13:25-15:05 MW, Blegen Hall 250, In Person Term Based; , 4 cr.  
46584 001 LEC, 11:15-12:55 MW, Blegen Hall 425, In Person Term Based; Teresa Gowan; 4 cr.  
60712 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 4 cr.

**3801 Sociological Research Methods**

(Student Option; Prereq: 1001 recommended; soc majors must register A-F)  
46567 001 LEC, 9:45-11:00 TTh, Anderson Hall 270, In Person Term Based; Jack DeWaard; 4 cr.  
46570 004 LAB, 13:00-14:15 W, Blegen Hall 120, In Person Term Based; Jack DeWaard; 4 cr.  
46568 002 LAB, 9:45-11:00 W, Hubert H. Humphrey Center 20, In Person Term Based; Jack DeWaard; 4 cr.  
46569 003 LAB, 11:15-12:30 W, Hubert H. Humphrey Center 20, In Person Term Based; Jack DeWaard; 4 cr.  
46571 005 LAB, 13:00-14:15 W, Hubert H. Humphrey Center 60, In Person Term Based; Jack DeWaard; 4 cr.

**3811 Basic Social Statistics**

(Student Option; Prereq: Soc 1001 recommended. Credit will not be granted if credit has been received for Soc 5811 (Soc 5811 Fall terms only). Undergraduates with strong math background who have completed Soc 3801 are encouraged to register for 5811 in lieu of 3811.MATH)  
51151 009 LAB, 16:00-17:15 Th, Blegen Hall 440, In Person Term Based; , 4 cr.

55296 010 LAB, 17:30-18:45 Th, Blegen Hall 440, In Person Term Based; 4 cr.  
 46223 001 LEC, 13:00-14:15 TTh, Anderson Hall 330, In Person Term Based; John Warren; 4 cr.  
 46225 003 LAB, 8:00- 9:40 W, Blegen Hall 440, In Person Term Based; John Warren; 4 cr.  
 46226 004 LAB, 10:10-11:50 W, Blegen Hall 440, In Person Term Based; John Warren; 4 cr.  
 55295 005 LAB, 12:20-14:00 W, Blegen Hall 440, In Person Term Based; John Warren; 4 cr.  
 46224 002 LAB, 14:30-16:10 T, Blegen Hall 440, In Person Term Based; John Warren; 4 cr.  
 51150 008 LEC, 17:30-20:00 T, Blegen Hall 130, In Person Term Based; Robert Bryant; 4 cr.

**4101V Honors: Sociology of Law**

(A-F or Audit; Prereq: [1001, 3101, 3102] or 3701 recommended, soc majors/minors must register A-FWI)  
 59598 001 LEC, 14:30-15:45 TTh, Blegen Hall 120, In Person Term Based; Meets With: 001 SOC 4101W; Gabrielle Ferrales; 3 cr.

**4101W Sociology of Law**

(A-F or Audit; Prereq: [1001, 3101, 3102] or 3701 recommended, soc majors/minors must register A-FWI)  
 48603 001 LEC, 14:30-15:45 TTh, Blegen Hall 120, In Person Term Based; Meets With: 001 SOC 4101V; Gabrielle Ferrales; 3 cr.

**4135 Sociology of White-Collar Crime**

(Student Option; Prereq: 3101 or 3102 or instr consent; soc majors/minors must register A-F)  
 67763 001 LEC, 13:00-14:15 MW, Blegen Hall 255, In Person Term Based; Meets With: 001 SOC 4135H; Joachim Savelsberg; 3 cr.

**4135H Honors: Sociology of White-Collar Crime**

(A-F only; Prereq: 3101 or 3102 or instr consent; soc majors/minors must register A-F)  
 68072 001 LEC, 13:00-14:15 MW, Blegen Hall 255, In Person Term Based; Meets With: 001 SOC 4135; Joachim Savelsberg; 3 cr.

**4141 Juvenile Delinquency**

(A-F or Audit; Prereq: [3101 or 3102 or 3111 or instr consent], soc majors/minors must register A-F)  
 67764 001 LEC, 17:30-20:00 W, Blegen Hall 255, In Person Term Based; Christopher Uggen; 3 cr.

**4149 Killing**

(Student Option; Prereq: jr or sr or grad student or instr consent; soc majors/minors must register A-F)  
 46551 001 LEC, 12:30-15:00 F, Blegen Hall 255, In Person Term Based; Carl Malmquist; 3 cr.

**4161 Criminal Law in American Society**

(Student Option; Prereq: 3101 or 3102 or 3111 or instr consent; soc majors/minors must register A-F)  
 67765 001 LEC, 14:30-17:00 W, Blegen Hall 150, In Person Term Based; Joel Samaha; 3 cr.

**4190 Topics in Sociology With Law, Criminology, and Deviance Emphasis**

(Student Option; Prereq: [1001, [3101 or 3102]] recommended; soc majors/minors must register A-F; cr will not be granted if cr has been received for the same topics title)  
 67766 001 LEC, 11:15-12:30 TTh, Blegen Hall 255, In Person Term Based; Rossella Selmini; 3 cr.

**4246 Sociology of Health and Illness**

(A-F or Audit; Prereq: One sociology course or instr consent; soc majors/minors must register A-F)  
 60020 001 LEC, 17:30-20:00 M, Blegen Hall 317, In Person Term Based; Laura Fischer; 3 cr.

**4315 Never Again! Memory & Politics after Genocide**

(A-F only; Prereq: 1001 or 1011V recommendedGP)  
 69038 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey Center 25, In Person Term Based; Meets With: 001 GLOS 4315; Alejandro Baer; 3 cr.

**4551 Sociology of Sexualities**

(Student Option; Prereq: Soc majors/minors must register A-FDSJ,SOCS)  
 67768 001 LEC, 13:00-14:15 TTh, Hanson Hall, Room 1-108, In Person Term Based; Meets With: 001 SOC 4551H; 3 cr.

**4551H Honors: Sociology of Sexualities**

(A-F only; Prereq: Soc majors/minors must register A-FDSJ,SOCS)  
 67769 001 LEC, 13:00-14:15 TTh, Hanson Hall, Room 1-108, In Person Term Based; Meets With: 001 SOC 4551; 3 cr.

**4821 Measuring the Social World: Concepts and Analysis**

(A-F only; Prereq: SOC 3801 or equiv, and SOC 3811 or equivalent)  
 68376 001 LEC, 9:45-11:00 TTh, Blegen Hall 440, In Person Term Based; Carolyn Liebler; 3 cr.

**4966W Major-Project Seminar**

(A-F or Audit; Prereq: 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consentWI)  
 68238 003 LEC, 9:45-11:00 TTh, Blegen Hall 115, In Person Term Based; Joseph Gerteis; 4 cr.  
 47334 001 LEC, 9:45-11:00 MW, Blegen Hall 115, In Person Term Based; Jeylan Mortimer; 4 cr.  
 47335 002 LEC, 18:00-20:30 M, Blegen Hall 260, In Person Term Based; Rachel Schurman; 4 cr.

**4978V Senior Honors Proseminar II**

(A-F or Audit; Prereq: [4977V or instr consent], 3701, 3801, 3811, at least 9 additional upper div soc cr, sr soc honors major, dept consentWI)  
 47361 001 LEC, 14:30-17:00 W, Social Sciences Building 1183, In Person Term Based; Jeylan Mortimer; 3 cr.

**8001 Sociology as a Profession**

(S-N or Audit; Prereq: Grad soc major)  
 49714 001 LEC, 13:00-14:00 T, Social Sciences Building 1183, In Person Term Based; Joseph Gerteis; 1 cr.

**8011 Teaching Sociology: Theory & Practice**

(Student Option; Prereq: Soc grad student or instr consent)  
 57779 001 LEC, 14:30-17:00 Th, Social Sciences Building 1183, In Person Term Based; Carolyn Liebler; 3 cr.

**8090 Topics in Sociology**

(Student Option; Prereq: instr consent)  
 67750 003 LEC, 10:00-11:30 F, Social Sciences Building 1114, In Person Term Based; Douglas Hartmann; 1.5-3 cr.  
 58409 002 LEC, 12:30-14:00 Th, No Room Required, In Person Term Based; John Warren; 1.5-3 cr.  
 58408 001 LEC, 11:15-12:45 T, Social Sciences Building 1183, In Person Term Based; Meets With: 002 POL 8060; Joachim Savelsberg; 1.5-3 cr.  
 67751 004 LEC, 11:45-14:15 F, Social Sciences Building 1114, In Person Term Based; Meets With: 004 ANTH 8810; Ann Miller; 1.5-3 cr.

**8093 Directed Study**

(Student Option; Prereq: Grad soc major or instr consent)  
 48977 001 IND, In Person Term Based; Becky Drasin; 1-4 cr.

**8094 Directed Research**

(Student Option; )  
 49472 001 IND, In Person Term Based; Becky Drasin; 1-4 cr.

**8111 Criminology**

(Student Option; )  
 67770 001 LEC, 11:45-12:35 W, Social Sciences Building 1114, In Person Term Based; Christopher Uggen; 3 cr.

**8211 The Sociology of Race & Racialization**

(Student Option; )  
 67771 001 LEC, 14:30-17:00 W, Social Sciences Building 1114, In Person Term Based; Enid Logan; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
 49165 001 IND, In Person Term Based; Becky Drasin; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
 49256 001 IND, In Person Term Based; Becky Drasin; 1 cr.

**8540 Topics in Family Sociology**

(Student Option; )  
 67772 001 LEC, 11:45-14:15 W, Walter W Heller Hall 1229, In Person Term Based; Meets With: 002 HIST 5970002 HIST 8970; Steven Ruggles; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for

1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
 49360 001 IND, In Person Term Based; Becky Drasin; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
 49465 001 IND, In Person Term Based; Becky Drasin; 1-18 cr.

**8790 Advanced Topics in Sociological Theory**

(Student Option; )  
 60201 001 LEC, 11:45-14:15 M, Social Sciences Building 1114, In Person Term Based; Meets With: 003 PA 5490; Joshua Page; 3 cr.

**8801 Sociological Research Methods**

(A-F or Audit; Prereq: Grad soc major or instr consent)  
 51866 001 LEC, 14:30-15:45 TTh, Social Sciences Building 614, In Person Term Based; Kathleen Hull; 4 cr.

**8811 Advanced Social Statistics**

(A-F or Audit; Prereq: 5811 or equiv, grad soc major or instr consent)  
 47552 002 LAB, 14:30-16:25 M, Blegen Hall 440, In Person Term Based; David Knoke; 4 cr.  
 47551 001 LEC, 11:15-12:30 TTh, Social Sciences Building 1114, In Person Term Based; David Knoke; 4 cr.

**8888 Thesis Credits: Doctoral**

(No Grade Associated; Prereq: [Completion of four semesters and all required credits completed], 24 cr required)  
 52723 001 IND, In Person Term Based; Becky Drasin; 1-24 cr.

**8890 Advanced Topics in Research Methods**

(Student Option; Prereq: Soc Grad Student whose completed 8801 and 8811 or instr consent. Cr will not be granted if cr has been received for the same topics title)  
 57780 001 LEC, 9:00-11:30 F, Social Sciences Building 1183, In Person Term Based; Jack DeWard; 2-3 cr.

**Software Engineering (SENG)****5115 Graphical User Interface Design, Evaluation, and Implementation**

(A-F or Audit; Prereq: Grad SEng major)  
 51307 001 LEC, 10:00-13:45 Sa, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 3 cr.

**5199 Topics in Software Engineering**

(A-F or Audit; Prereq: SEng grad student)  
 60899 004 LEC, In Person Term Based; 2-3 cr.  
 56720 003 LEC, 12:45-16:45 FSa, Keller Hall 2-260, In Person Term Based; Jennifer Dalton; 2-3 cr.  
 53257 001 LEC, 8:00- 9:50 Sa, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 2-3 cr.  
 55173 002 LEC, 8:00-12:30 FSa, Keller Hall 2-260, In Person Term Based; Mike Calvo; 2-3 cr.

**5511 Artificial Intelligence**

(A-F or Audit; Prereq: Grad SEng major)  
 51564 001 LEC, In Person Term Based; Jennifer Dalton; 2-3 cr.

**5708 Data Analytics**

(A-F or Audit; Prereq: Grad SEng major)  
 52804 001 LEC, In Person Term Based; Jennifer Dalton; 2-3 cr.

**5802 Software Engineering II: Software Design**

(A-F or Audit; Prereq: Grad SEng major)  
 48969 001 LEC, 10:00-13:45 F, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 3 cr.

**5811 Software Testing and Verification**

(A-F or Audit; Prereq: 5801, grad SEng major)  
 48970 001 LEC, 8:00- 9:50 F, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 2 cr.

**5831 Software Development for Real-Time Systems**

(A-F or Audit; Prereq: Grad SEng major)

52805 001 LEC, 14:00-16:45 Sa, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 2-3 cr.

### 5852 Quality Assurance and Process Improvement

(A-F or Audit; Prereq: Grad SEng major)  
49834 001 LEC, 14:00-16:45 F, Keller Hall 3-111, In Person Term Based; Jennifer Dalton; 3 cr.

### 5900 Directed Study (Student Option; )

51565 001 LEC, In Person Term Based; Jennifer Dalton; 1-3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49164 001 IND, In Person Term Based; Jennifer Dalton; 1 cr.

### 8494 Capstone Project (Plan B Project)

(S-N or Audit; Prereq: SEng major)  
48971 001 IND, In Person Term Based; Jennifer Dalton; 3 cr.

## Soil, Water, and Climate (SOIL)

### 2125 Basic Soil Science

(A-F or Audit; Prereq: [CHEM 1015, CHEM 1017] or CHEM 1021 or equivENV,PHYS)  
47103 001 LEC, 9:35-10:25 MWF, Borlaug Hall 335, In Person Term Based; Nicolas Jelinski; 4 cr.  
56599 003 DIS, 9:35-10:25 Th, Borlaug Hall 243A, In Person Term Based; Nicolas Jelinski; 4 cr.  
56600 005 DIS, 15:00-15:50 Th, Borlaug Hall 243A, In Person Term Based; Nicolas Jelinski; 4 cr.  
56601 006 DIS, 16:05-16:55 Th, Borlaug Hall 243A, In Person Term Based; Nicolas Jelinski; 4 cr.  
56598 002 LAB, In Person Term Based; Nicolas Jelinski; 4 cr.  
49818 004 DIS, 10:40-11:30 Th, Borlaug Hall 243A, In Person Term Based; Nicolas Jelinski; 4 cr.

### 3416 Plant Nutrients in the Environment

(Student Option; )  
54132 001 DIS, 11:45-13:40 MW, Plant Growth Facility 140B, In Person Term Based; John Lamb; 3 cr.

### 4093 Directed Study

(Student Option; Prereq: instr consent)  
47919 001 LEC, In Person Term Based; Carl Rosen; 1-7 cr.

### 4094 Directed Research

(Student Option; Prereq: instr consent)  
47920 001 LEC, In Person Term Based; Carl Rosen; 1-7 cr.

### 4111 Introduction to Precision Agriculture

(A-F or Audit; Prereq: Basic sciences, statistics, soil, agronomy)  
60898 002 LEC, In Person Term Based; Ce Yang; 3 cr.  
60897 001 LAB, In Person Term Based; Ce Yang; 3 cr.

### 5111 Practicum Internship in Precision

Agriculture (S-N or Audit; )  
47339 001 FWK, In Person Term Based; D Mulla; 2-5 cr.

### 8110 Colloquium in Soil Science

(S-N or Audit; )  
47853 001 LEC, In Person Term Based; Brandy Toner; 1-3 cr.

### 8123 Research Ethics in the Plant and

Environmental Sciences (S-N or Audit; Prereq: Enrolled in a plant/environmental sci grad research prog)

51058 001 LEC, 16:00-18:00 Th, Hodson Hall 495, In Person Term Based; Meets With: 001 APSC 8123001 PLPA 8123001 PBS 8123; Gail Kalli; 0.5 cr.

## Somali (SMLI)

### 1222 Beginning Somali II

(A-F only; Prereq: 1221)  
56510 001 LEC, 17:00-20:00 MW, Blegen Hall 235, In Person Term Based; Said Ahmed; 5 cr.

### 1226 Accelerated Beginning Somali II

(A-F only; Prereq: 1225 or instr consent)  
55537 001 LEC, 17:00-20:00 TTh, Blegen Hall 317, In Person Term Based; Said Ahmed; 5 cr.

### 3227 Intermediate Somali I

(A-F only; Prereq: Beginning Somali I, II or instr consent)

57407 001 LEC, In Person Term Based; 5 cr.

## Spanish (SPAN)

### 144 Intermediate Medical Spanish

(S-N or Audit; Prereq: [1st yr college-level Spanish or equiv], dept consent)

56667 001 LEC, 18:30-20:30 T, Folwell Hall 107, Partially Online; Maria Emilce Lopez; 0 cr.  
56667 001 LEC, 18:30-20:30 T, Folwell Hall 107, Partially Online; Maria Emilce Lopez; 0 cr.

### 221 Reading Spanish

(S-N or Audit; )  
58536 001 LEC, 17:15-19:20 T, Folwell Hall 118, In Person Term Based; Kathy Lundquist; 0 cr.

### 344 Advanced Medical Spanish

(S-N or Audit; Prereq: Span 0144, 2 yrs. Spanish College Level or equiv, dept consent)

56677 001 LEC, 18:30-20:30 T, Folwell Hall 107, Partially Online; Maria Emilce Lopez; 0 cr.  
56677 001 LEC, 18:30-20:30 T, Folwell Hall 107, Partially Online; Maria Emilce Lopez; 0 cr.

### 1001 Beginning Spanish

(Student Option; Prereq: Less than 2 yrs of high school Spanish, dept consent, no college-level Spanish)

49914 504 LEC, Study Abroad; 5 cr.  
49904 503 LEC, Study Abroad; 5 cr.  
50266 501 LEC, Study Abroad; Katherine Moss; 5 cr.  
49903 502 LEC, Study Abroad; Katherine Moss; 5 cr.  
50267 505 LEC, Study Abroad; Katherine Moss; 5 cr.  
55902 516 LEC, Study Abroad; Lance Levine; 5 cr.  
51649 519 LEC, Study Abroad; Emily Mraz; 5 cr.

### 1002 Beginning Spanish

(Student Option; Prereq: 1001 completed at UMNTC, dept consent)

49907 504 LEC, Study Abroad; 5 cr.  
49906 503 LEC, Study Abroad; 5 cr.  
50268 501 LEC, Study Abroad; Katherine Moss; 5 cr.  
49905 502 LEC, Study Abroad; Katherine Moss; 5 cr.  
50269 505 LEC, Study Abroad; Katherine Moss; 5 cr.  
55903 516 LEC, Study Abroad; Lance Levine; 5 cr.  
50756 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 18, In Person Term Based; Cecily Brown; 5 cr.  
50754 001 LEC, 9:05-9:55 MTWThF, Kolthoff Hall 138, In Person Term Based; Cecily Brown; 5 cr.  
50755 002 LEC, 10:10-11:00 MTWThF, Kolthoff Hall 138, In Person Term Based; Cecily Brown; 5 cr.  
51650 519 LEC, Study Abroad; Emily Mraz; 5 cr.

### 1003 Intermediate Spanish

(Student Option; Prereq: [1002 or 1022] or EPT placement)

49910 504 LEC, Study Abroad; 5 cr.  
49909 503 LEC, Study Abroad; 5 cr.  
68861 704 LEC, In Person Term Based; Allison Coalwell; 5 cr.  
47642 006 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 121, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47646 010 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 3, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47639 003 LEC, 9:05-9:55 F, No Room Required, 9:05-9:55 MTWTh, Folwell Hall 4, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47640 004 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 4, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47641 005 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 30, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47644 008 LEC, 12:20-13:10 F, No Room Required, 12:20-13:10 MTWTh, Folwell Hall 30, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47645 009 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 30, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47638 002 LEC, 8:00-8:50 F, No Room Required, 8:00-8:50 MTWTh, Folwell Hall 103, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47647 011 LEC, 14:30-15:20 F, No Room Required, 14:30-15:20 MTWTh, Folwell Hall 104, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47643 007 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 120, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
68859 702 LEC, In Person Term Based; John Fitzer; 5 cr.

68860 703 LEC, In Person Term Based; Judith Schulte; 5 cr.  
50270 501 LEC, Study Abroad; Katherine Moss; 5 cr.  
49908 502 LEC, Study Abroad; Katherine Moss; 5 cr.  
50271 505 LEC, Study Abroad; Katherine Moss; 5 cr.  
55904 516 LEC, Study Abroad; Lance Levine; 5 cr.  
68857 700 LEC, In Person Term Based; Mary DeMers Wilhelm; 5 cr.  
68858 701 LEC, In Person Term Based; Mary DeMers Wilhelm; 5 cr.  
68935 016 LEC, 8:00-8:50 F, Room TBA, 8:00-8:50 MTWTh, Folwell Hall 112, In Person Term Based; Timothy Frye; 5 cr.  
61540 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 5 cr.  
47651 015 LEC, 18:00-19:55 MW, Folwell Hall 105, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47649 013 LEC, 15:35-16:25 F, No Room Required, 15:35-16:25 MTWTh, Kolthoff Hall 139, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
51146 001 LEC, 9:05-11:00 MTWThF, Blegen Hall 330, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
51651 519 LEC, Study Abroad; Lance Levine; 5 cr.  
47650 014 LEC, 16:40-17:30 F, No Room Required, 16:40-17:30 MTWTh, Folwell Hall 18, In Person Term Based; Angela Carlson Lombardi; 5 cr.  
47648 012 LEC, 14:30-15:20 F, No Room Required, 14:30-15:20 MTWTh, Folwell Hall 103, In Person Term Based; Angela Carlson Lombardi; 5 cr.

### 1004 Intermediate Spanish

(Student Option; Prereq: 1003 or EPT placement)

49913 504 LEC, Study Abroad; 5 cr.  
49912 503 LEC, Study Abroad; 5 cr.  
58131 020 LEC, In Person Term Based; 5 cr.  
68885 703 LEC, In Person Term Based; Allison Coalwell; 5 cr.  
68884 702 LEC, In Person Term Based; Allison Coalwell; 5 cr.  
68887 705 LEC, In Person Term Based; Andrea Sebenaler; 5 cr.  
68889 707 LEC, In Person Term Based; Angela Chapman; 5 cr.  
68901 718 LEC, In Person Term Based; Anne Gaston; 5 cr.  
68902 719 LEC, In Person Term Based; Anne Gaston; 5 cr.  
68908 725 LEC, In Person Term Based; Anne Gaston; 5 cr.  
68904 721 LEC, In Person Term Based; Anthony Daniel; 5 cr.  
68892 709 LEC, In Person Term Based; Anthony Daniel; 5 cr.  
69113 729 LEC, In Person Term Based; Billie Jo Shoen; 5 cr.  
68888 706 LEC, In Person Term Based; Corrine Crothers; 5 cr.  
68893 710 LEC, In Person Term Based; David Swanson; 5 cr.  
68895 712 LEC, In Person Term Based; Elizabeth Perona; 5 cr.  
69110 726 LEC, In Person Term Based; Elizabeth Perona; 5 cr.  
69111 727 LEC, In Person Term Based; Elizabeth Perona; 5 cr.  
69112 728 LEC, In Person Term Based; Elizabeth Perona; 5 cr.  
68882 700 LEC, In Person Term Based; Jamie Pehl; 5 cr.  
68899 716 LEC, In Person Term Based; Jamie Pehl; 5 cr.  
68907 724 LEC, In Person Term Based; Jamie Pehl; 5 cr.  
69114 730 LEC, In Person Term Based; Jennifer Lariviere; 5 cr.  
68900 717 LEC, In Person Term Based; Jennifer Lariviere; 5 cr.  
68886 704 LEC, In Person Term Based; Jennifer Merthan; 5 cr.  
68898 715 LEC, In Person Term Based; Jennifer Merthan; 5 cr.  
68903 720 LEC, In Person Term Based; Jennifer Merthan; 5 cr.  
68890 708 LEC, In Person Term Based; Kari Stevenson; 5 cr.  
50272 501 LEC, Study Abroad; Katherine Moss; 5 cr.  
49911 502 LEC, Study Abroad; Katherine Moss; 5 cr.  
50273 505 LEC, Study Abroad; Katherine Moss; 5 cr.  
55905 516 LEC, Study Abroad; Lance Levine; 5 cr.  
68894 711 LEC, In Person Term Based; Lindsay Brehm; 5 cr.  
68897 714 LEC, In Person Term Based; Lindsay Brehm; 5 cr.  
68896 713 LEC, In Person Term Based; Monica Cortes; 5 cr.  
47669 018 LEC, 15:35-16:25 F, No Room Required, 15:35-16:25 MTWTh, Kolthoff Hall 137, In Person Term Based; Sara Mack; 5 cr.  
47667 016 LEC, 14:30-15:20 F, No Room Required, 14:30-15:20 MTWTh, Kolthoff Hall 139, In Person Term Based; Sara Mack; 5 cr.  
47656 005 LEC, 9:05-9:55 F, No Room Required, 9:05-9:55 MTWTh, Folwell Hall 120, In Person Term Based; Sara Mack; 5 cr.  
47657 006 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 3, In Person Term Based; Sara Mack; 5 cr.  
47662 011 LEC, 12:20-13:10 F, No Room Required, 12:20-13:10 MTWTh, Folwell Hall 3, In Person Term Based; Sara Mack; 5 cr.

47661 010 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 105, In Person Term Based; Sara Mack; 5 cr.

50517 019 LEC, 18:00-19:55 TTh, Folwell Hall 105, In Person Term Based; Sara Mack; 5 cr.

47660 009 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 106, In Person Term Based; Sara Mack; 5 cr.

47659 008 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 120, In Person Term Based; Sara Mack; 5 cr.

47665 014 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 120, In Person Term Based; Sara Mack; 5 cr.

47655 004 LEC, 9:05-9:55 F, No Room Required, 9:05-9:55 MTWTh, Folwell Hall 121, In Person Term Based; Sara Mack; 5 cr.

47658 007 LEC, 10:10-11:00 F, Room TBA, 10:10-11:00 MTWTh, Folwell Hall 121, In Person Term Based; Sara Mack; 5 cr.

47663 012 LEC, 12:20-13:10 F, No Room Required, 12:20-13:10 MTWTh, Folwell Hall 121, In Person Term Based; Sara Mack; 5 cr.

47664 013 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 121, In Person Term Based; Sara Mack; 5 cr.

47668 017 LEC, 15:35-16:25 F, No Room Required, 15:35-16:25 MTWTh, Kolthoff Hall 138, In Person Term Based; Sara Mack; 5 cr.

50075 003 LEC, 8:00-8:50 F, No Room Required, 8:00-8:50 MTWTh, Kolthoff Hall 139, In Person Term Based; Sara Mack; 5 cr.

47654 002 LEC, 8:00-8:50 F, No Room Required, 8:00-8:50 MTWTh, Kolthoff Hall 140, In Person Term Based; Sara Mack; 5 cr.

47666 015 LEC, 14:30-15:20 F, No Room Required, 14:30-15:20 MTWTh, Kolthoff Hall 140, In Person Term Based; Sara Mack; 5 cr.

68883 701 LEC, In Person Term Based; Timothy Lehner; 5 cr.

68905 722 LEC, In Person Term Based; Timothy Lehner; 5 cr.

68906 723 LEC, In Person Term Based; Timothy Lehner; 5 cr.

61541 A94 LEC, Online & Distance Lrng (ODL); Joan Saunders; 5 cr.

47653 001 LEC, 9:05-11:00 MTWThF, Blegen Hall 330, In Person Term Based; Sara Mack; 5 cr.

51652 519 LEC, Study Abroad; Lance Lavine; 5 cr.

### 1014 Business Spanish

(Student Option; Prereq: 1003)

59002 001 LEC, 10:10-12:05 MW, Nicholson Hall 315, In Person Term Based; Anne Hoffman-Gonzalez; 5 cr.

### 1022 Alternate Second-Semester Spanish (Student Option; Prereq: Placement above 1001)

47842 001 LEC, 8:00-8:50 F, No Room Required, 8:00-8:50 MTWTh, Kolthoff Hall 138, In Person Term Based; F. Matos-Schultz; 5 cr.

49935 009 LEC, 12:20-13:10 F, No Room Required, 12:20-13:10 MTWTh, Folwell Hall 120, In Person Term Based; F. Matos-Schultz; 5 cr.

47846 006 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 105, In Person Term Based; F. Matos-Schultz; 5 cr.

50078 015 LEC, 17:45-18:35 F, No Room Required, 17:45-18:35 MTWTh, Folwell Hall 3, In Person Term Based; F. Matos-Schultz; 5 cr.

50077 014 LEC, 15:35-16:25 F, No Room Required, 15:35-16:25 MTWTh, Folwell Hall 18, In Person Term Based; F. Matos-Schultz; 5 cr.

49934 008 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 103, In Person Term Based; F. Matos-Schultz; 5 cr.

49474 007 LEC, 11:15-12:05 F, No Room Required, 11:15-12:05 MTWTh, Folwell Hall 104, In Person Term Based; F. Matos-Schultz; 5 cr.

47845 004 LEC, 9:05-9:55 F, No Room Required, 9:05-9:55 MTWTh, Folwell Hall 105, In Person Term Based; F. Matos-Schultz; 5 cr.

49953 012 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 105, In Person Term Based; F. Matos-Schultz; 5 cr.

47844 003 LEC, 9:05-9:55 F, No Room Required, 9:05-9:55 MTWTh, Folwell Hall 106, In Person Term Based; F. Matos-Schultz; 5 cr.

49473 005 LEC, 10:10-11:00 F, No Room Required, 10:10-11:00 MTWTh, Folwell Hall 106, In Person Term Based; F. Matos-Schultz; 5 cr.

49945 010 LEC, 12:20-13:10 F, No Room Required, 12:20-13:10 MTWTh, Folwell Hall 106, In Person Term Based; F. Matos-Schultz; 5 cr.

49946 011 LEC, 13:25-14:15 F, No Room Required, 13:25-14:15 MTWTh, Folwell Hall 106, In Person Term Based; F. Matos-Schultz; 5 cr.

47843 002 LEC, 8:00-8:50 F, No Room Required, 8:00-8:50 MTWTh, Kolthoff Hall 137, In Person Term Based; F. Matos-Schultz; 5 cr.

50076 013 LEC, 14:30-15:20 F, No Room Required, 14:30-15:20 MTWTh, Kolthoff Hall 138, In Person Term Based; F. Matos-Schultz; 5 cr.

50274 501 LEC, Study Abroad; Katherine Moss; 5 cr.

49915 502 LEC, Study Abroad; Katherine Moss; 5 cr.

### 1044 Intermediate Medical Spanish

(Student Option; Prereq: 1003 or equiv)

53074 001 LEC, 10:10-12:05 TTh, Nicholson Hall 110, In Person Term Based; Maria Emilce Lopez; 5 cr.

### 3011W Spanish Grammar and Composition

#### Workshop

(Student Option; Prereq: [1004 or 1014 or 1044], LPE passWI)

51654 519 LEC, Study Abroad; 4 cr.

51038 500 LEC, Study Abroad; Katherine Moss; 4 cr.

47828 002 LEC, 8:00-9:55 TTh, Nicholson Hall 125, In Person Term Based; Thomas Mc Callum; 4 cr.

47827 001 LEC, 12:20-14:15 MW, Peik Hall 315, In Person Term Based; Thomas Mc Callum; 4 cr.

### 3015W Spanish Composition and Communication

(Student Option; Prereq: 1004 or 1014 or 1044, LPE passWI)

51653 519 LEC, Study Abroad; 4 cr.

50275 501 LEC, Study Abroad; Katherine Moss; 4 cr.

49916 502 LEC, Study Abroad; Katherine Moss; 4 cr.

47826 007 LEC, 12:20-14:15 TTh, Cooke Hall 215, In Person Term Based; Thomas Mc Callum; 4 cr.

47824 004 LEC, 14:30-16:25 MW, Folwell Hall 3, In Person Term Based; Thomas Mc Callum; 4 cr.

48922 009 LEC, 18:00-19:55 TTh, Folwell Hall 104, In Person Term Based; Thomas Mc Callum; 4 cr.

48921 008 LEC, 14:30-16:25 TTh, Folwell Hall 105, In Person Term Based; Thomas Mc Callum; 4 cr.

47822 001 LEC, 8:00-9:55 MW, Folwell Hall 116, In Person Term Based; Thomas Mc Callum; 4 cr.

50516 002 LEC, 10:10-12:05 MW, Folwell Hall 116, In Person Term Based; Thomas Mc Callum; 4 cr.

47825 006 LEC, 10:10-12:05 TTh, Peik Hall 155, In Person Term Based; Thomas Mc Callum; 4 cr.

47823 003 LEC, 12:20-14:15 MW, Peik Hall 215, In Person Term Based; Thomas Mc Callum; 4 cr.

52072 005 LEC, 8:00-9:55 TTh, Peik Hall 315, In Person Term Based; Thomas Mc Callum; 4 cr.

### 3022 Advanced Business Spanish

(Student Option; Prereq: 3015)

49475 001 LEC, 8:00-9:55 TTh, Nicholson Hall 110, In Person Term Based; Anne Hoffman-Gonzalez; 4 cr.

51039 500 LEC, Study Abroad; Katherine Moss; 4 cr.

### 3044 Advanced Medical Spanish

(Student Option; Prereq: [(1004 or 1014 or 1044 or equiv), Span LPE] or instr consent)

51519 001 LEC, 12:20-14:15 TTh, Cooke Hall 214, In Person Term Based; Maria Emilce Lopez; 4 cr.

### 3104W Introduction to the Study of

#### Hispanic Literatures

(Student Option; Prereq: 3015, Spanish [major or minor] or Span-Port major/LITR,WI)

47291 002 LEC, 13:00-14:15 MW, Folwell Hall 8, In Person Term Based; Kathy Lundquist; 3 cr.

48960 004 LEC, 13:00-14:15 TTh, Folwell Hall 12, In Person Term Based; Kathy Lundquist; 3 cr.

53959 003 LEC, 8:15-9:30 TTh, Folwell Hall 28, In Person Term Based; Kathy Lundquist; 3 cr.

47290 001 LEC, 9:45-11:00 MW, Folwell Hall 28, In Person Term Based; Kathy Lundquist; 3 cr.

50515 005 LEC, 18:00-19:15 TTh, Folwell Hall 121, In Person Term Based; Kathy Lundquist; 3 cr.

### 3105W Introduction to the Study of

#### Hispanic Cultures

(Student Option; Prereq: 3015, Spanish [major or minor] or Span-PortWI)

54140 005 LEC, 9:45-11:00 TTh, Nicholson Hall 315, In Person Term Based; Kathy Lundquist; 3 cr.

47463 002 LEC, 11:15-12:30 MW, Folwell Hall 6, In Person Term Based; Kathy Lundquist; 3 cr.

61060 006 LEC, 11:15-12:30 TTh, Folwell Hall 8, In Person Term Based; Kathy Lundquist; 3 cr.

47465 004 LEC, 16:00-17:15 MW, Folwell Hall 16, In Person Term Based; Kathy Lundquist; 3 cr.

47466 001 LEC, 8:15-9:30 MW, Folwell Hall 28, In Person Term Based; Kathy Lundquist; 3 cr.

47464 003 LEC, 13:00-14:15 MW, Folwell Hall 28, In Person Term Based; Kathy Lundquist; 3 cr.

61061 007 LEC, 14:30-15:45 TTh, Folwell Hall 121, In Person Term Based; Kathy Lundquist; 3 cr.

### 3107W Introduction to the Study of Hispanic Linguistics

(Student Option; Prereq: 3015, Spanish [major or minor] or Span-Port majorWI)

48933 004 LEC, 13:00-14:15 TTh, Folwell Hall 116, In Person Term Based; Alicia Ocampo; 3 cr.

47293 001 LEC, 11:15-12:30 MW, Folwell Hall 5, In Person Term Based; Kathy Lundquist; 3 cr.

47295 003 LEC, 8:15-9:30 TTh, Folwell Hall 6, In Person Term Based; Kathy Lundquist; 3 cr.

47294 002 LEC, 14:30-15:45 MW, Folwell Hall 120, In Person Term Based; Kathy Lundquist; 3 cr.

### 3222 Interpreting Modern and Contemporary Latin America

(Student Option; Prereq: 3015, [3104W or TLDO 3104 or VENZ 3104 or instr consent])

47504 001 LEC, 13:00-14:15 TTh, Folwell Hall 8, In Person Term Based; Raul Marrero-Fente; 3 cr.

### 3401 Latino Immigration and Community Service

(A-F only; Prereq: 3015/3015HCIV)

59455 003 LEC, 15:35-18:05 W, Folwell Hall 6, In Person Term Based; Kathleen Ganley; 3 cr.

56475 001 LEC, 12:20-14:50 M, Burton Hall 123, In Person Term Based; Kathleen Ganley; 3 cr.

56476 002 LEC, 13:25-15:55 T, Peik Hall 28, In Person Term Based; Kathleen Ganley; 3 cr.

### 3404 Medical Spanish and Community Health Service

(Student Option; Prereq: 3015 with grade of at least B- or [1044, high pass on at least three sections of LPE])

53075 001 LEC, 12:20-14:50 W, Cooke Hall 215, Partially Online; Maria Emilce Lopez; 3 cr.

### 3502 Modern Spanish

(Student Option; Prereq: 3015, [3105W or TLDO 3105 or VENZ 3512 or instr consent])

47336 001 LEC, 13:00-14:15 MW, Folwell Hall 6, In Person Term Based; William Viestenz; 3 cr.

### 3510 Issues in Hispanic Cultures

(A-F or Audit; Prereq: 3015, [3105W or TLDO 3105 or VENZ 3512 or instr consent])

60773 002 LEC, 15:35-17:30 M, Folwell Hall 6, In Person Term Based; Gaston Pierri; 3 cr.

58535 001 LEC, 11:15-12:30 TTh, Folwell Hall 6, In Person Term Based; Luis Ramos-Garcia; 3 cr.

### 3512 Modern Latin America

(A-F or Audit; Prereq: 3015, [3105W or TLDO 3105 or VENZ 3512 or instr consent])

52891 001 LEC, 9:45-11:00 TTh, Folwell Hall 8, In Person Term Based; Ana Forcinito; 3 cr.

### 3606 Human Rights Issues in the Americas

(Student Option; )

56729 504 LEC, Study Abroad; 3 cr.

67773 001 LEC, 11:15-12:30 MW, Folwell Hall 4, In Person Term Based; Ana Forcinito; 3 cr.

### 3699 Study of Advanced Spanish

#### Language Abroad

(Student Option; Prereq: Two yrs college-level Spanish, dept consent)

51520 511 LEC, Study Abroad; 1-5 cr.

55906 516 LEC, Study Abroad; Lance Levine; 1-5 cr.

51683 519 LEC, Study Abroad; Lance Lavine; 1-5 cr.

### 3702 Structure of Spanish: Morphology and Syntax

(Student Option; Prereq: 3015, [3107W or TLDO 3107 or VENZ 3107 or instr consent])

55399 001 LEC, 9:45-11:00 TTh, Folwell Hall 28, In Person Term Based; Francisco Ocampo; 3 cr.

### 3730 Topics in Hispanic Linguistics

(A-F only; )

60167 001 LEC, 14:30-15:45 TTh, Folwell Hall 120, In Person Term Based; Francisco Ocampo; 3 cr.

### 3800 Film Studies in Spanish

(A-F only; Prereq: 3015, [3104W or 3105W or TLDO 3104 or TLDO 3105 or VENZ 3104 or VENZ 3512 or instr consent])

59256 001 LEC, 14:30-15:45 MW, Folwell Hall 105, In Person Term Based; Salvador Raggio; 3 cr.

**3910 Topics in Spanish Peninsular****Literature**

(A-F or Audit; Prereq: 3015, [3104W or TLDO 3104 or VENZ 3104 or instr consent])

55398 001 LEC, 11:15-12:30 TTh, Folwell Hall 5, In Person Term Based; Nicholas Spadaccini; 3 cr.

**3920 Topics in Spanish-American****Literature**

(A-F only; Prereq: 3015, [3104W or TLDO 3104 or VENZ 3104 or instr consent])

53488 001 LEC, 8:15- 9:30 MW, Folwell Hall 6, In Person Term Based; Salvador Raggio; 3 cr.

**3972W Graduation Seminar**

(A-F or Audit; Prereq: 31 cr of 3xxx, instr consentWI)

47260 001 LEC, 13:00-14:15 Th, Room TBA, 13:00-14:15 T, Folwell Hall 119, In Person Term Based; Nicholas Spadaccini; 3 cr.  
52736 002 LEC, 14:30-15:45 T, Room TBA, 14:30-15:45 Th, Folwell Hall 119, In Person Term Based; Raul Marrero-Fente; 3 cr.**4002 Beginning Spanish**

(Student Option; Prereq: Grad student)

53843 001 DIS, In Person Term Based; 2 cr.

**4003 Intermediate Spanish**

(Student Option; Prereq: Grad student)

53941 001 DIS, In Person Term Based; 2 cr.  
55297 002 DIS, In Person Term Based; 2 cr.**4004 Intermediate Spanish**

(Student Option; Prereq: Grad student)

56007 002 DIS, In Person Term Based; 2 cr.  
57389 003 DIS, In Person Term Based; 2 cr.  
53842 001 DIS, In Person Term Based; ; 2 cr.**4022 Alternate Second-Semester Spanish**

(Student Option; Prereq: Grad student)

53937 001 DIS, In Person Term Based; 2 cr.  
55855 002 DIS, In Person Term Based; 2 cr.**5150 Contemporary Spanish Literature**

(Student Option; )

60059 001 LEC, 14:30-17:30 W, Folwell Hall 4, In Person Term Based; Ofelia Ferran; 3 cr.

**5160 Medieval Iberian Literatures and Cultures**

(Student Option; )

60061 001 LEC, 14:30-17:30 T, Folwell Hall 5, In Person Term Based; Michelle Hamilton; 3 cr.

**5590 The Impact of Globalization in Latin American Discourses**

(Student Option; Prereq: Grad student or instr consent)

67778 001 LEC, In Person Term Based; Luis Ramos-Garcia; 3 cr.

**5721 Spanish Laboratory Phonology**

(A-F or Audit; Prereq: Grad student or instr consent)

67779 001 LEC, 11:15-12:30 MW, Folwell Hall 107, In Person Term Based; Timothy Face; 3 cr.

**5970 Directed Readings**

(Student Option; Prereq Grad student or instr consent.)

59299 003 IND, In Person Term Based; 1-4 cr.  
59300 004 IND, In Person Term Based; 1-4 cr.  
49016 001 IND, In Person Term Based; 1-4 cr.  
50348 002 IND, In Person Term Based; 1-4 cr.**5990 Directed Research**

(Student Option; Prereq Grad student or instr consent.)

51122 001 IND, In Person Term Based; 1-4 cr.  
51149 002 IND, In Person Term Based; 1-4 cr.**5991 The Acquisition of Spanish as a First and Second Language**

(Student Option; Prereq: Grad student or instr consent)

67780 001 LEC, 11:15-12:30 TTh, Folwell Hall 107, In Person Term Based; Mandy Menke; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)

49167 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)

49258 001 IND, In Person Term Based; 1 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)

49362 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])

49467 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)

51054 001 IND, In Person Term Based; 1-24 cr.

**Speech-Language-Hearing Sci (SLHS)****1301V Physics & Bio Honors**

(A-F or Audit; PHYS,WI)

59281 002 LAB, 9:45-11:15 M, Appleby Hall 321, In Person Term Based; Meets With: 002 SLHS 1301W; ; 4 cr.  
57379 001 LEC, 8:00- 8:50 MWF, Shevlin Hall 20, In Person Term Based; Meets With: 001 SLHS 1301W; Benjamin Munson; 4 cr.**1301W The Physics and Biology of Spoken Language**

(Student Option; PHYS,WI)

46129 002 LAB, 9:45-11:15 M, Appleby Hall 321, In Person Term Based; Meets With: 002 SLHS 1301V; ; 4 cr.  
46128 001 LEC, 8:00- 8:50 MWF, Shevlin Hall 20, In Person Term Based; Meets With: 001 SLHS 1301V; Benjamin Munson; 4 cr.  
46130 003 LAB, 8:15- 9:45 T, Appleby Hall 321, In Person Term Based; Mary Beth Kluesner; 4 cr.  
46131 004 LAB, 11:15-12:45 W, Appleby Hall 321, In Person Term Based; Mary Beth Kluesner; 4 cr.**1302 Rate Your World: Quantifying Judgments of Human Behavior**

(Student Option; MATH)

52373 001 LEC, 10:10-11:00 TTh, Shevlin Hall 20, In Person Term Based; Yang Zhang; 3 cr.  
53496 003 DIS, 8:00- 8:50 Th, Nicholson Hall 35, In Person Term Based; ; 3 cr.  
53495 002 DIS, 14:30-15:20 T, Shevlin Hall 110, In Person Term Based; ; 3 cr.**1401 Communication Differences and Disorders**

(Student Option; SOCS)

46134 001 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; Meets With: 001 SLHS 3401; Jayanthi Sasisekaran; 3 cr.

**1402 The Talking Brain**

(Student Option; SOCS)

51254 001 LEC, 14:30-15:45 TTh, Shevlin Hall 20, In Person Term Based; Lizbeth Finestack; 3 cr.

**1905 Freshman Seminar**

(A-F or Audit; Prereq: Fr)

68571 001 LEC, 14:30-15:45 MW, Shevlin Hall 20, In Person Term Based; Sheri Stronach; 3 cr.

**3303 Language Acquisition and Science**

(Student Option; )

55679 001 LEC, 9:45-11:00 TTh, Shevlin Hall 110, In Person Term Based; Lizbeth Finestack; 3 cr.

**3304 Phonetics**

(Student Option; )

55535 001 LEC, 13:00-14:15 TTh, Fraser Hall 101, In Person Term Based; Peter Watson; 3 cr.

**3306 Hearing Science**

(Student Option; Prereq: [3302, 3305W] or instr consent)

46439 001 LEC, 9:45-11:00 MW, Shevlin Hall 20, In Person Term Based; ; 3 cr.

**3401 Communication Differences and Disorders**

(Student Option; SOCS)

49757 001 LEC, 11:15-12:30 TTh, Room TBA, In Person Term Based; Meets With: 001 SLHS 1401; Jayanthi Sasisekaran; 3 cr.

**3402V Major Project in Speech-Language-Hearing Sciences**

(A-F only; Prereq: SLHS major, jr or sr, honorsWI)

58013 002 LEC, 14:00-15:15 MW, Room TBA, In Person Term Based; Meets With: 001 SLHS 3402W; Arlene Carney; 3 cr.

**3402W Major Project in Speech and Hearing Science**

(S-N or Audit; Prereq: Jr or sr CDIs or SLHS majorWI)

55520 001 LEC, 14:00-15:15 MW, Room TBA, In Person Term Based; Meets With: 002 SLHS 3402V; Arlene Carney; 3 cr.

**3555H Honors Thesis**

(A-F or Audit; Prereq: See dir of undergrad studies for [thesis adviser, forms])

53491 012 IND, In Person Term Based; ; 1-2 cr.  
52655 002 IND, In Person Term Based; ; 1-2 cr.  
52553 001 IND, In Person Term Based; Arlene Carney; 1-2 cr.  
52657 005 IND, In Person Term Based; Benjamin Munson; 1-2 cr.  
52662 010 IND, In Person Term Based; Jennifer Windsor; 1-2 cr.  
52659 007 IND, In Person Term Based; Joe Reichle; 1-2 cr.  
52658 006 IND, In Person Term Based; Peggy Nelson; 1-2 cr.  
52661 009 IND, In Person Term Based; Peter Watson; 1-2 cr.  
52660 008 IND, In Person Term Based; Robert Schlauch; 1-2 cr.  
52663 011 IND, In Person Term Based; Yang Zhang; 1-2 cr.  
52656 003 IND, In Person Term Based; ; 1-2 cr.**3994 Directed Research**

(Student Option; Prereq: Undergrad doing research)

55072 008 IND, In Person Term Based; Aparna Rao; 1-12 cr.  
53493 002 IND, In Person Term Based; Arlene Carney; 1-12 cr.  
55070 006 IND, In Person Term Based; Benjamin Munson; 1-12 cr.  
55074 010 IND, In Person Term Based; Jayanthi Sasisekaran; 1-12 cr.  
55852 015 IND, In Person Term Based; Jayanthi Sasisekaran; 1-12 cr.  
55077 013 IND, In Person Term Based; Jennifer Windsor; 1-12 cr.  
55073 009 IND, In Person Term Based; Joe Reichle; 1-12 cr.  
55069 005 IND, In Person Term Based; Kathryn Kohnert; 1-12 cr.  
55853 016 IND, In Person Term Based; Lizbeth Finestack; 1-12 cr.  
53494 003 IND, In Person Term Based; Mark Deruiter; 1-12 cr.  
55068 004 IND, In Person Term Based; Mary Kennedy; 1-12 cr.  
55071 007 IND, In Person Term Based; Peggy Nelson; 1-12 cr.  
55076 012 IND, In Person Term Based; Peter Watson; 1-12 cr.  
55075 011 IND, In Person Term Based; Robert Schlauch; 1-12 cr.  
53492 001 IND, In Person Term Based; Sarah Angerman; 1-12 cr.  
55078 014 IND, In Person Term Based; Yang Zhang; 1-12 cr.**4802 Rehabilitative Audiology**

(Student Option; Prereq: [3305, 4801] or [CDIs 3305, CDIs 4801] or instr consent)

56521 001 LEC, 8:15- 9:30 TTh, Shevlin Hall 20, In Person Term Based; ; 3 cr.

**5502 Voice and Cleft Palate**

(Student Option; Prereq: [3305, 4301] or [CDIs 3305, CDIs 4301] or instr consent)

55519 001 LEC, 8:00-10:30 M, Shevlin Hall 110, In Person Term Based; Peter Watson; 3 cr.

**5605 Language and Cognitive Disorders in Adults**

(Student Option; Prereq: [3302, 4301] or [CDIs 3302, CDIs 4301] or instr consent)

52331 001 LEC, 16:40-19:20 Th, Shevlin Hall 110, In Person Term Based; ; 3 cr.

**5606 Introduction to Augmentative and Alternative Communication**

(Student Option; Prereq: SLHS grad or instr consent)

52575 001 LEC, 8:15-11:15 W, Shevlin Hall 110, In Person Term Based; ; 3 cr.

**5608 Clinical Issues in Bilingualism and Cultural Diversity**

(A-F only; Prereq: 3303 or equiv or instr consent)  
53253 001 LEC, 17:15-19:30 M, Shevlin Hall 110, In Person Term Based; Sheri Stronach; 3 cr.

**5805 Advanced Rehabilitative Audiology**  
(A-F only; Prereq: [4802 or equiv, SLHS grad] or instr consent)

58634 001 LEC, 12:40-14:40 Th, Shevlin Hall 110, In Person Term Based; Arlene Carney; 3 cr.

**5808 Hearing Disorders**

(A-F or Audit; Prereq: [[8801, 8802] or [CDIS 8801, CDIS 8802], SLHS grad] or instr consent)  
58632 001 LEC, In Person Term Based; ; 3 cr.

**5810 Laboratory Module in Audiology**

(Student Option; Prereq: [4801 or CDIS 4801, SLHS grad] or instr consent)  
46135 001 LAB, 9:00-12:00 Th, Shevlin Hall 120, In Person Term Based; Kerry Witherell; 1-2 cr.

**5820 Clinical Research and Practice: Grand Rounds**

(S-N or Audit; Prereq: [[4801 or CDIS 4801 or equiv], SLHS grad] or instr consent)  
52374 001 DIS, 13:25-15:20 F, Shevlin Hall 110, In Person Term Based; Robert Schlauch; 1-6 cr.

**5900 Topic in Speech-Language-Hearing Sciences**

(Student Option; Prereq: SLHS grad student or instr consent)  
59089 001 LEC, 12:00-14:00 W, Shevlin Hall 125, In Person Term Based; Peter Watson; 1-4 cr.

**5993 Directed Study**

(Student Option; Prereq: SLHS grad or instr consent)  
50212 004 IND, In Person Term Based; ; 1-12 cr.  
55080 015 IND, In Person Term Based; Aparna Rao; 1-12 cr.  
50215 002 IND, In Person Term Based; Arlene Carney; 1-12 cr.  
50213 007 IND, In Person Term Based; Benjamin Munson; 1-12 cr.  
55079 014 IND, In Person Term Based; Jane Carlstrom; 1-12 cr.  
55081 016 IND, In Person Term Based; Jayanthi Sasisekaran; 1-12 cr.  
50214 012 IND, In Person Term Based; Jennifer Windsor; 1-12 cr.  
50210 009 IND, In Person Term Based; Joe Reichle; 1-12 cr.  
55854 017 IND, In Person Term Based; Lizbeth Finestack; 1-12 cr.  
50211 003 IND, In Person Term Based; Mark Deruiter; 1-12 cr.  
50207 008 IND, In Person Term Based; Peggy Nelson; 1-12 cr.  
50209 011 IND, In Person Term Based; Peter Watson; 1-12 cr.  
50208 010 IND, In Person Term Based; Robert Schlauch; 1-12 cr.  
47470 001 IND, In Person Term Based; Sarah Angerman; 1-12 cr.  
53490 013 IND, In Person Term Based; Yang Zhang; 1-12 cr.  
50904 005 IND, 16:00-17:00 T, Shevlin Hall 20, In Person Term Based; Sheri Stronach; 1-12 cr.

**8333 FTE: Masters**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49098 001 IND, In Person Term Based; Robert Schlauch; 1 cr.

**8410 Seminar: Research**

(Student Option; )  
58633 001 LEC, In Person Term Based; 3 cr.

**8430 Proseminar in Speech-Language-Hearing Sciences**

(S-N only; Prereq: SLHS grad student)  
54398 001 DIS, 12:00-13:00 M, Shevlin Hall 110, In Person Term Based; Robert Schlauch; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49198 001 IND, In Person Term Based; Robert Schlauch; 1 cr.

**8530 Seminar: Speech**

(Student Option; )

57993 001 LEC, 9:00-11:30 W, Shevlin Hall 125, In Person Term Based; Yang Zhang; 3 cr.

**8630 Seminar: Language**

(Student Option; )  
60994 001 LEC, 8:30-11:00 Th, Lind Hall 216, In Person Term Based; Yang Zhang; 3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49287 001 IND, In Person Term Based; 1-6 cr.

**8720 Clinical Education in Speech-Language Pathology**

(S-N or Audit; Prereq Grad CDIs major, adviser, DGS consent.)  
51496 002 FWK, In Person Term Based; Mark Deruiter; 1-8 cr.  
46136 001 FWK, In Person Term Based; Mark Deruiter; 1-8 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49387 001 IND, In Person Term Based; 1-18 cr.

**8801 Audiologic Assessment II**

(Student Option; Prereq: 5801 or CDIs 5801 or instr consent)  
46137 001 LEC, 13:30-16:30 M, Shevlin Hall 110, In Person Term Based; Robert Schlauch; 3 cr.

**8802 Hearing Aids II**

(Student Option; Prereq: 5802 or Cdis 5802 or instr consent)  
46138 001 LEC, 15:30-18:00 W, Shevlin Hall 125, In Person Term Based; Melanie Gegan; 3 cr.

**8806 Audiology Capstone**

(S-N or Audit; Prereq: 8802, 8807)  
53277 001 LEC, In Person Term Based; Robert Schlauch; 1-6 cr.

**8807 Audiologic Assessment III: Balance**

(Student Option; Prereq: 5801, 8801)  
60848 001 LEC, 9:00-12:00 M, Shevlin Hall 125, In Person Term Based; Sarah Angerman; 3 cr.

**8820 Clinical Education in Audiology**

(S-N or Audit; Prereq: Grad CDIs major)  
51497 002 FWK, In Person Term Based; Mark Deruiter; 1-8 cr.  
46139 001 FWK, In Person Term Based; Mark Deruiter; 1-8 cr.

**8840 Audiology Externship**

(S-N or Audit; Prereq: [8802, 8807] or [CDIs 8802, CDIs 8807])  
55119 001 FWK, In Person Term Based; Mark Deruiter; 1-7 cr.  
55138 002 FWK, In Person Term Based; Mark Deruiter; 1-7 cr.  
55140 003 FWK, In Person Term Based; Mark Deruiter; 1-7 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required.)  
49514 001 IND, In Person Term Based; Robert Schlauch; 1-24 cr.

**8994 Directed Research**

(Student Option; Prereq: instr consent)  
50220 002 IND, In Person Term Based; Arlene Carney; 1-12 cr.  
50219 007 IND, In Person Term Based; Benjamin Munson; 1-12 cr.  
55850 014 IND, In Person Term Based; Jayanthi Sasisekaran; 1-12 cr.  
53357 012 IND, In Person Term Based; Jennifer Windsor; 1-12 cr.  
50216 009 IND, In Person Term Based; Joe Reichle; 1-12 cr.  
55851 015 IND, In Person Term Based; Lizbeth Finestack; 1-12 cr.  
50217 003 IND, In Person Term Based; Mark Deruiter; 1-12 cr.  
50218 004 IND, In Person Term Based; Mary Kennedy; 1-12 cr.

47472 008 IND, In Person Term Based; Peggy Nelson; 1-12 cr.  
47474 011 IND, In Person Term Based; Peter Watson; 1-12 cr.  
47473 010 IND, In Person Term Based; Robert Schlauch; 1-12 cr.  
47471 001 IND, In Person Term Based; Sarah Angerman; 1-12 cr.  
50905 005 IND, In Person Term Based; Sheri Stronach; 1-12 cr.  
53489 013 IND, In Person Term Based; Yang Zhang; 1-12 cr.

**Sport Management (SMGT)****1701 Introduction to Sport Management**

(A-F or Audit; )  
53569 002 LEC, 9:45-11:00 TTh, Carlson School of Mgmt L-110, In Person Term Based; Meets With: 001 SMGT 1701; Tiffany Richardson; 2 cr.  
50232 001 LEC, 9:45-11:00 TTh, Carlson School of Mgmt L-110, In Person Term Based; Meets With: 002 SMGT 1701; Tiffany Richardson; 2 cr.

**1904 Freshman Seminar: Global**

**Perspectives**  
(Student Option; Prereq: FrGP)  
58610 001 LEC, 13:00-15:00 W, Room TBA, In Person Term Based; Jo Ann Buysse; 3 cr.

**1905 Freshman Seminar**

(Student Option No Audit; Prereq: Fr)  
68704 001 LEC, 10:00-14:40 W, Cooke Hall 214, In Person Term Based; Jo Ann Buysse; 1-3 cr.

**3111 Sports Facility and Event Management**

(A-F or Audit; Prereq: SMGT major or instr consent)  
60733 002 LEC, 11:15-12:30 MW, TCF Bank Stadium Room G150, In Person Term Based; Scott Ellison; 3 cr.  
53769 001 LEC, 11:15-12:30 MW, TCF Bank Stadium 120G, In Person Term Based; Derek Hillestad; 3 cr.

**3143 Organization and Management of Sport**

(A-F or Audit; Prereq: SMGT major)  
54245 001 LEC, 13:00-14:15 MW, Cooke Hall 206, In Person Term Based; John Phillip Liseic; 3 cr.

**3421 Business of Sport**

(A-F or Audit; Prereq: SMGT or kin or rec major or instr consent)  
46844 001 LEC, 11:15-12:30 TTh, Rapson Hall 54, In Person Term Based; Geumchan Hwang; 3 cr.

**3501 Sport in a Diverse Society**

(A-F only; DSJ,SOCS)  
60660 004 LEC, 16:00-17:15 MW, Cooke Hall 206, In Person Term Based; Chelsey Thul; 3 cr.  
61046 006 LEC, 9:45-11:00 MW, Cooke Hall 215, In Person Term Based; Chelsey Thul; 3 cr.  
60659 005 LEC, 13:00-14:15 TTh, Cooke Hall 206, In Person Term Based; Jo Ann Buysse; 3 cr.  
54246 001 LEC, 11:15-12:30 TTh, Peik Gymnasium G65, In Person Term Based; Jo Ann Buysse; 3 cr.  
68877 007 LEC, 8:00-9:15 MW, Nicholson Hall 110, In Person Term Based; Leo Lewis; 3 cr.  
54849 003 LEC, 11:15-12:30 MW, Cooke Hall 206, In Person Term Based; Mary Jo Kane; 3 cr.  
54595 002 LEC, 8:15-9:30 TTh, No Room Required, In Person Term Based; Nicole LaVoi; 3 cr.

**3601 Ethics and Values in Sport**

(A-F or Audit; Prereq: SMGT major)  
46846 001 LEC, 10:10-11:50 Th, Rapson Hall 58, In Person Term Based; Lisa Kihl; 2 cr.

**3631 Sport Marketing**

(A-F or Audit; Prereq: SMGT major or instr consent)  
60734 002 LEC, 9:45-11:00 MW, Cooke Hall 206, In Person Term Based; James Slagle; 3 cr.  
54288 001 LEC, 9:45-11:00 MW, Cooke Hall 214, In Person Term Based; Joshua Lupinek; 3 cr.

**3632 Sport Sales and Fund-raising**

(A-F only; Prereq: Sport Management major or instr consent)  
55494 001 LEC, 18:00-20:30 M, Cooke Hall 206, In Person Term Based; Randy Handel; 3 cr.

**3861 Sport and Recreation Law**

(A-F only; Prereq: SMGT or REC major or instr consent)



46848 001 LEC, 14:30-15:45 TTh, Akerman Hall 225, In Person Term Based; Sandy Wang; 3 cr.

### 3881W Senior Seminar in Sport Management (A-F or Audit; WI)

59506 002 LEC, 18:00-20:30 M, Akerman Hall 227, In Person Term Based; Tiffany Richardson; 3 cr.  
46833 001 LEC, 15:00-17:30 M, Akerman Hall 215, In Person Term Based; Lisa Kihl; 3 cr.

### 3996 Practicum: The Sport Experience (S-N only; Prereq: 3881, SMGT major, Instr consent)

54247 002 FWK, In Person Term Based; 2-8 cr.  
46834 001 FWK, In Person Term Based; Tiffany Richardson; 2-8 cr.

## Statistics (STAT)

### 1001 Introduction to the Ideas of Statistics (Student Option; Prereq: Mathematics requirement for admission to UniversityMATH)

50757 003 LAB, 14:30-15:20 T, Vincent Hall 20, In Person Term Based; 4 cr.  
46232 001 LEC, 9:05-9:55 MWF, Rapson Hall 45, In Person Term Based; Meng-Hsuan Wu; 4 cr.  
46233 004 LAB, 15:35-16:25 T, Vincent Hall 1, In Person Term Based; Taryn Verley; 4 cr.

### 3011 Introduction to Statistical Analysis (Student Option; MATH)

50483 016 LAB, 16:05-16:55 T, Akerman Hall 211, In Person Term Based; 4 cr.  
46240 007 LAB, 10:10-11:00 Th, Ford Hall 110, In Person Term Based; 4 cr.  
46237 004 LAB, 10:10-11:00 T, Vincent Hall 1, In Person Term Based; 4 cr.  
48720 010 LAB, 19:05-19:55 W, Vincent Hall 20, 12:20-13:10 Th, Vincent Hall 1, In Person Term Based; 4 cr.  
60166 019 LAB, 20:10-21:00 W, Vincent Hall 1, In Person Term Based; 4 cr.  
46234 001 LEC, 9:05-9:55 MWF, Mechanical Engineering 18, In Person Term Based; Barbara Kuzmak; 4 cr.  
48723 017 LEC, 19:05-19:55 W, Rapson Hall 31, 18:20-20:00 M, Rapson Hall 31, In Person Term Based; 4 cr.  
48719 009 LEC, 12:20-13:10 MWF, Mayo Bldg & Additions C231, In Person Term Based; 4 cr.  
46241 008 LAB, 11:15-12:05 Th, Vincent Hall 1, In Person Term Based; 4 cr.  
48721 011 LAB, 13:25-14:15 Th, Vincent Hall 1, In Person Term Based; 4 cr.  
48722 012 LAB, 14:30-15:20 Th, Vincent Hall 1, In Person Term Based; 4 cr.  
46235 002 LAB, 8:00-8:50 T, Vincent Hall 2, In Person Term Based; 4 cr.  
46236 003 LAB, 9:05-9:55 T, Vincent Hall 2, In Person Term Based; 4 cr.  
50318 014 LAB, 13:25-14:15 T, Vincent Hall 2, In Person Term Based; 4 cr.  
50482 015 LAB, 14:30-15:20 T, Vincent Hall 2, In Person Term Based; 4 cr.  
46239 006 LAB, 9:05-9:55 Th, Vincent Hall 1, In Person Term Based; Taryn Verley; 4 cr.  
50199 013 LEC, 13:25-14:15 MWF, Mayo Bldg & Additions C231, In Person Term Based; Meng-Hsuan Wu; 4 cr.  
46238 005 LEC, 10:10-11:00 MWF, Mayo Bldg & Additions C231, In Person Term Based; Taryn Verley; 4 cr.  
54385 018 LAB, 18:00-18:50 W, Vincent Hall 20, In Person Term Based; Taryn Verley; 4 cr.

### 3021 Introduction to Probability and Statistics

(Student Option; Prereq: Math 1272)

68523 008 LAB, 15:35-16:25 T, Appleby Hall 3, In Person Term Based; 3 cr.  
68519 004 LAB, 11:15-12:05 T, Ford Hall 110, In Person Term Based; 3 cr.  
68525 010 LAB, 13:25-14:15 Th, Ford Hall 110, In Person Term Based; 3 cr.  
68526 011 LAB, 14:30-15:20 Th, Ford Hall 110, In Person Term Based; 3 cr.  
68522 007 LAB, 14:30-15:20 T, Ford Hall 110, In Person Term Based; 3 cr.  
68518 003 LAB, 10:10-11:00 T, Ford Hall 150, In Person Term Based; 3 cr.  
68516 001 LEC, 11:15-12:05 MWF, Vincent Hall 16, In Person Term Based; Taryn Verley; 3 cr.  
68527 012 LAB, 15:35-16:25 Th, Ford Hall 110, In Person Term Based; Taryn Verley; 3 cr.  
68520 005 LEC, 14:30-15:20 MWF, Vincent Hall 16, In Person Term Based; Taryn Verley; 3 cr.

68521 006 LAB, 13:25-14:15 T, Ford Hall 115, In Person Term Based; Taryn Verley; 3 cr.  
68517 002 LAB, 9:05-9:55 T, Ford Hall 130, In Person Term Based; Taryn Verley; 3 cr.  
68524 009 LEC, 15:35-16:25 MWF, Bruininks Hall 230, In Person Term Based; Taryn Verley; 3 cr.

### 3022 Data Analysis

(Student Option; Prereq: 3011 or 3021 or SOC 3811)  
46242 001 LEC, 10:10-11:00 MWF, Mechanical Engineering 18, In Person Term Based; Meng-Hsuan Wu; 4 cr.  
46244 004 LAB, 10:10-11:00 T, Ford Hall 127, In Person Term Based; 4 cr.  
46243 002 LAB, 8:00-8:50 T, Vincent Hall 1, In Person Term Based; 4 cr.  
50062 003 LAB, 9:05-9:55 T, Vincent Hall 1, In Person Term Based; 4 cr.

### 4101 Theory of Statistics I

(Student Option; Prereq: Math 1272 or Math 1372 or Math 1572H)  
68532 002 LAB, 9:05-9:55 T, Ford Hall 115, In Person Term Based; 4 cr.  
68533 002 LAB, 10:10-11:00 T, Ford Hall 130, In Person Term Based; 4 cr.  
68531 001 LEC, 9:05-9:55 MWF, Rapson Hall 31, In Person Term Based; Tiefeng Jiang; 4 cr.

### 4102 Theory of Statistics II

(Student Option; Prereq: 4101)  
47087 001 LEC, 14:30-15:20 MWF, Anderson Hall 270, In Person Term Based; Charles Doss; 4 cr.  
57558 004 LAB, 15:35-16:25 T, Ford Hall 110, In Person Term Based; Taryn Verley; 4 cr.  
56605 003 LAB, 14:30-15:20 T, Bruininks Hall 131A, In Person Term Based; Taryn Verley; 4 cr.  
47088 002 LAB, 13:25-14:15 T, Akerman Hall 225, In Person Term Based; 4 cr.

### 4893W Consultation and Communication for Statisticians

(A-F only; Prereq: Senior Statistics MajorWI)  
60872 002 LEC, 12:20-13:10 MWF, Vincent Hall 213, In Person Term Based; Barbara Kuzmak; 3 cr.  
49476 001 LEC, 10:10-11:00 MWF, Vincent Hall 213, In Person Term Based; Marta Shore; 3 cr.

### 5021 Statistical Analysis

(Student Option; Prereq: Credit will not be granted if credit has been received for: 3011; College algebra or instr consent; Stat course recommended)  
55102 006 LAB, 15:35-16:25 Th, Ford Hall 155, In Person Term Based; 4 cr.  
54055 005 LAB, 14:30-15:20 Th, Vincent Hall 313, In Person Term Based; 4 cr.  
49543 004 LEC, 14:30-15:20 MWF, Ford Hall 110, In Person Term Based; 4 cr.  
46247 001 LEC, 10:10-11:00 MWF, Akerman Hall 225, In Person Term Based; 4 cr.  
50484 003 LAB, 10:10-11:00 Th, Amundson Hall 104, In Person Term Based; 4 cr.  
46248 002 LAB, 9:05-9:55 Th, Vincent Hall 213, In Person Term Based; 4 cr.

### 5101 Theory of Statistics I

(Student Option; Prereq: [Math 2263 or Math 2374 or Math 2573H], [CSCI 2033 or Math 2373 or Math 2243])  
68540 002 LAB, 8:00-8:50 T, Ford Hall 110, In Person Term Based; 4 cr.  
68541 003 LAB, 9:05-9:55 T, Ford Hall 110, In Person Term Based; 4 cr.  
68542 004 LAB, 10:10-11:00 T, Ford Hall 110, In Person Term Based; 4 cr.  
68539 001 LEC, 9:05-9:55 MWF, Vincent Hall 16, In Person Term Based; Hui Zou; 4 cr.

### 5102 Theory of Statistics II

(Student Option; Prereq: 5101 or Math 5651)  
48727 004 LAB, 14:30-15:20 T, Vincent Hall 1, In Person Term Based; 4 cr.  
47090 002 LAB, 12:20-13:10 T, Vincent Hall 1, In Person Term Based; 4 cr.  
50898 003 LAB, 13:25-14:15 T, Vincent Hall 1, In Person Term Based; 4 cr.  
47089 001 LEC, 13:25-14:15 MWF, Mechanical Engineering 18, In Person Term Based; Hui Zou; 4 cr.

### 5302 Applied Regression Analysis

(Student Option; Prereq: 3022 or 4102 or 5021 or 5102 or instr consent)  
46604 002 LAB, 13:25-14:15 Th, Ford Hall 155, In Person Term Based; 4 cr.  
48729 003 LAB, 14:30-15:20 Th, Ford Hall 155, In Person Term Based; 4 cr.

68586 005 LAB, 13:25-14:15 T, Ford Hall 155, In Person Term Based; 4 cr.  
46603 001 LEC, 13:25-14:15 MWF, Rapson Hall 31, In Person Term Based; Gongjun Xu; 4 cr.  
50060 004 LAB, 15:35-16:25 Th, Vincent Hall 213, In Person Term Based; Taryn Verley; 4 cr.

### 5303 Designing Experiments

(Student Option; Prereq: 3022 or 4102 or 5021 or 5102 or instr consent)  
46602 001 LEC, 12:20-13:10 MWF, Rapson Hall 31, In Person Term Based; John Corbett; 4 cr.  
68529 003 LAB, 13:25-14:15 T, Ford Hall 110, In Person Term Based; Taryn Verley; 4 cr.  
48601 002 LAB, 12:20-13:10 T, Ford Hall 110, In Person Term Based; John Corbett; 4 cr.

### 5401 Applied Multivariate Methods

(Student Option; Prereq: 5302 or 8102 or instr consent)  
53480 001 LEC, 11:15-12:05 MWF, Ford Hall 151, In Person Term Based; Galin Jones; 3 cr.

### 5421 Analysis of Categorical Data

(Student Option; Prereq: 5302 or instr consent)  
68544 001 LEC, 14:30-15:20 MWF, Akerman Hall 225, In Person Term Based; Charles Geyer; 3 cr.

### 5931 Topics in Statistics

(Student Option; )  
68545 001 LEC, In Person Term Based; 3 cr.

### 5993 Tutorial

(Student Option; Prereq: instr consent)  
48862 001 IND, In Person Term Based; Marta Shore; 1-6 cr.

### 8052 Applied Statistical Methods 2: Design of Experiments and Mixed -Effects Modeling

(A-F or Audit; Prereq: 8051 or instr consent)  
68560 002 LAB, 8:00-8:50 Th, Vincent Hall 206, In Person Term Based; 3 cr.  
67685 001 LEC, 8:00-9:55 MW, Vincent Hall 20, In Person Term Based; Birgit Grund; 3 cr.

### 8054 Statistical Methods 4: Advanced Statistical Computing

(A-F or Audit; Prereq: STAT 8053 or instr consent)  
54287 001 LEC, 11:15-12:05 MWF, Ford Hall 170, In Person Term Based; Charles Geyer; 3 cr.

### 8102 Theory of Statistics 2

(Student Option; Prereq: 8101, Statistics graduate major or instr consent)  
46828 001 LEC, 11:15-12:05 MWF, Vincent Hall 206, In Person Term Based; Lan Wang; 3 cr.

### 8112 Mathematical Statistics II

(Student Option; Prereq: 8111)  
46829 001 LEC, 13:25-14:15 MWF, Vincent Hall 207, In Person Term Based; Charles Doss; 3 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49168 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49259 001 IND, In Person Term Based; 1 cr.

### 8511 Time Series Analysis

(Student Option; Prereq: 5102 or 8111 or instr consent)  
68546 001 LEC, 14:30-15:20 MWF, Vincent Hall 213, In Person Term Based; Yuhong Yang; 3 cr.

### 8666 Doct Pre-Thesis Cr

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49363 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49468 001 IND, In Person Term Based; 1-18 cr.

### 8801 Statistical Consulting

(S-N or Audit; Prereq: STAT 8051 and STAT Grad Student or Instructor Consent)

48730 001 LEC, 14:30-15:20 MWF, Vincent Hall 1, In Person  
Term Based; Aaron Rendahl; 3 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester  
or summer; 24 cr required)  
49477 001 IND, In Person Term Based; 1-24 cr.

### 8913 Literature Seminar

(S-N only; Prereq: Statistics grad major or instr  
consent)  
54504 001 LEC, 15:35-16:25 F, Ford Hall 170, In Person  
Term Based; Xiaotong Shen; 1 cr.

### 8931 Advanced Topics in Statistics

(Student Option; )  
57694 001 LEC, 11:15-12:30 TTh, Rapson Hall 56, In Person  
Term Based; Meets With: 001 PUBH 7475001 PUBH 8475;  
3 cr.

### 8992 Directed Readings and Research

(Student Option; Prereq: instr consent)  
61236 013 IND, In Person Term Based; Aaron Rendahl; 1-6  
cr.  
61237 014 IND, In Person Term Based; Adam Rothman; 1-6  
cr.  
61229 006 IND, In Person Term Based; Birgit Grund; 1-6 cr.  
61227 004 IND, In Person Term Based; Charles Doss; 1-6 cr.  
61228 005 IND, In Person Term Based; Charles Geyer; 1-6  
cr.  
61230 007 IND, In Person Term Based; Douglas Hawkins;  
1-6 cr.  
61233 010 IND, In Person Term Based; Galin Jones; 1-6 cr.  
61235 012 IND, In Person Term Based; Gary Oehlert; 1-6 cr.  
61234 011 IND, In Person Term Based; Glen Meeden; 1-6 cr.  
61241 018 IND, In Person Term Based; Gongjun Xu; 1-6 cr.  
61243 020 IND, In Person Term Based; Hui Zou; 1-6 cr.  
61239 016 IND, In Person Term Based; Lan Wang; 1-6 cr.  
61231 008 IND, In Person Term Based; Nathaniel Helwig; 1-6  
cr.  
61226 003 IND, In Person Term Based; R. Cook; 1-6 cr.  
61240 017 IND, In Person Term Based; Sanford Weisberg;  
1-6 cr.  
61225 002 IND, In Person Term Based; Singdhansu  
Chatterjee; 1-6 cr.  
61232 009 IND, In Person Term Based; Tiefeng Jiang; 1-6 cr.  
61238 015 IND, In Person Term Based; Xiaotong Shen; 1-6  
cr.  
61242 019 IND, In Person Term Based; Yuhong Yang; 1-6 cr.  
47114 001 IND, In Person Term Based; Zack Almqvist; 1-6  
cr.

## Stem Cell Biology (SCB)

### 5054 Stem Cell Institute Research Seminar and Journal Club

(A-F only; Prereq: Acceptance into stem cell biology  
[master's prog or PhD minor prog] or instr consent)  
55769 001 LEC, 16:00-17:00 MWF, , In Person Term Based;  
Susan Keirstead; 2 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student,  
adviser consent, DGS consent)  
58304 001 IND, In Person Term Based; 1 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; )  
55842 001 IND, In Person Term Based; 1-18 cr.

## Studies in Cinema Media Cultur (SCMC)

### 1201W Cinema

(Student Option; AH)  
69083 006 DIS, 8:00- 8:50 F, Blegen Hall 220, In Person  
Term Based; Meets With: 006 CSCL 1201W; 4 cr.  
69084 007 DIS, 9:05- 9:55 F, Blegen Hall 220, In Person  
Term Based; Meets With: 007 CSCL 1201W; 4 cr.  
69081 004 DIS, 9:05- 9:55 Th, Peik Hall 165, In Person Term  
Based; Meets With: 004 CSCL 1201W; 4 cr.  
69079 002 DIS, 9:05- 9:55 T, Peik Hall 165, In Person Term  
Based; Meets With: 002 CSCL 1201W; 4 cr.  
69082 005 DIS, 10:10-11:00 Th, Peik Hall 165, In Person  
Term Based; Meets With: 005 CSCL 1201W; 4 cr.  
69080 003 DIS, 10:10-11:00 T, Peik Hall 165, In Person  
Term Based; Meets With: 003 CSCL 1201W; 4 cr.  
52508 001 LEC, 11:15-14:15 F, Anderson Hall 310,  
11:15-12:30 M, Anderson Hall 310, In Person Term Based;  
Meets With: 001 CSCL 1201W; Aaron Thompson; 4 cr.

69085 008 DIS, 10:10-11:00 W, Bruininks Hall 117, In Person  
Term Based; Meets With: 008 CSCL 1201W; Vanessa  
Cambier; 4 cr.

69086 009 DIS, 11:15-12:05 W, Bruininks Hall 123, In Person  
Term Based; Meets With: 009 CSCL 1201W; Vanessa  
Cambier; 4 cr.

### 1202W Media: Word, Image, Sound

(Student Option; AH,WI)  
69077 006 DIS, 9:05- 9:55 F, Nicholson Hall 315, In Person  
Term Based; Meets With: 006 CSCL 1202W; 4 cr.  
69078 007 DIS, 10:10-11:00 F, Nicholson Hall 315, In Person  
Term Based; Meets With: 007 CSCL 1202W; 4 cr.  
69075 004 DIS, 9:05- 9:55 W, Amundson Hall 124, In Person  
Term Based; Meets With: 004 CSCL 1202W; Joseph  
Sannicandro; 4 cr.  
69076 005 DIS, 10:10-11:00 W, Amundson Hall 124, In  
Person Term Based; Meets With: 005 CSCL 1202W;  
Joseph Sannicandro; 4 cr.  
68967 001 LEC, 11:15-12:30 TTh, Anderson Hall 250, In  
Person Term Based; Meets With: 001 CSCL 1202W;  
Michelle Lekas; 4 cr.  
69009 002 DIS, 9:05- 9:55 M, Amundson Hall 240, In Person  
Term Based; Meets With: 002 CSCL 1202W; Mikkel Vad;  
4 cr.  
69010 003 DIS, 10:10-11:00 M, Amundson Hall 240, In  
Person Term Based; Meets With: 003 CSCL 1202W; Mikkel  
Vad; 4 cr.

### 3202 Intermediate Digital Filmmaking

(A-F only; Prereq: 3201 or instr consent)  
61115 002 LAB, 14:30-17:15 T, Nicholson Hall 345, In  
Person Term Based; Dag Yngvesson; 4 cr.  
58545 001 LAB, 18:20-20:50 M, Nicholson Hall 345, In  
Person Term Based; Aaron Thompson; 4 cr.

### 3993 Directed Study

(Student Option; )  
58054 001 IND, In Person Term Based; Aaron Thompson;  
1-3 cr.

### 5002 Advanced Film Analysis

(A-F only; Prereq: [1201 or ARTH 1921W or CSCL 1201  
or CSCL 1921 or equiv coursework], SCMC major)  
58500 001 LEC, 16:00-18:45 Th, Nicholson Hall 110,  
18:20-20:50 W, Nicholson Hall 345, In Person Term  
Based; Michelle Lekas; 4 cr.

## Studies of Science and Tech (SST)

### 8000 Colloquium

(S-N or Audit; Prereq: Grad SST minor)  
48731 001 LEC, 15:35-17:30 F, Nicholson Hall 275, In  
Person Term Based; Janet McKernan; 1.5 cr.

### 8400 Seminar: Science, Technology, and Society

(Student Option; Prereq: HSci 8111 or [Phil 8601 or Phil  
8602 or Phil 8605] or instr consent)  
54778 002 LEC, In Person Term Based; 3 cr.

## Study Abroad in Argentina (ARGN)

### 1000 Language and Culture in Buenos Aires Program

(A-F only; )  
52666 502 LEC, Study Abroad; 1-18 cr.

### 1001 Beginning Spanish I

(A-F only; )  
52667 502 LEC, Study Abroad; 5 cr.

### 1003 Intermediate Spanish III

(A-F only; )  
52669 502 LEC, Study Abroad; 5 cr.

### 1004 Intermediate Spanish IV

(A-F only; )  
52670 502 LEC, Study Abroad; 5 cr.

### 3000 Language and Culture in Buenos Aires Program

(A-F only; )  
52671 502 LEC, Study Abroad; 1-18 cr.

### 3001 Colloquial Spanish

(A-F only; )  
52675 502 LEC, Study Abroad; 3 cr.

### 3003 Politics and Society in Latin America

(A-F only; )  
52676 502 LEC, Study Abroad; 3 cr.

### 3004 Latin American Economy: The Argentine Perspective

(A-F only; )  
52672 502 LEC, Study Abroad; 3 cr.

### 3005 Buenos Aires: City of the Arts

(A-F only; )  
52673 502 LEC, Study Abroad; 3 cr.

### 3006 Topics in Argentine History

(A-F only; )  
52674 502 LEC, Study Abroad; 3 cr.

## Study Abroad in Florence (FLOR)

### 1001 Beginning Italian

(A-F only; )  
51533 502 LEC, Study Abroad; 5 cr.

### 1002 Beginning Italian

(A-F only; )  
51534 502 LEC, Study Abroad; 5 cr.

### 1003 Intermediate Italian

(A-F only; )  
51535 502 LEC, Study Abroad; 5 cr.

### 1004 Intermediate Italian

(A-F only; )  
51536 502 LEC, Study Abroad; 5 cr.

### 1101 Drawing

(A-F only; )  
51537 502 LEC, Study Abroad; 3 cr.

### 1102 Watercolor

(A-F only; )  
51538 502 LEC, Study Abroad; 3 cr.

### 1301 Figurative Sculpture

(A-F only; )  
51539 502 LEC, Study Abroad; 3 cr.

### 1302 Oil Painting

(A-F only; )  
53305 502 LEC, Study Abroad; 3 cr.

### 1303 Life Drawing

(A-F only; )  
53307 502 LEC, Study Abroad; 3 cr.

### 3040 The Impact of Globalization on European Markets

(Student Option; )  
52677 502 LEC, Study Abroad; 3 cr.

### 3101 Intermediate Drawing

(A-F only; )  
52678 502 LEC, Study Abroad; 3 cr.

### 3102 Intermediate Watercolor

(A-F only; )  
52679 502 LEC, Study Abroad; 3 cr.

### 3213 History of Italian Art From Antiquity to the Baroque

(A-F only; )  
51540 502 LEC, Study Abroad; 3 cr.

### 3214 History of Italian Art, From Early Renaissance to Early 20th Century

(A-F only; )  
52684 502 LEC, Study Abroad; 3 cr.

### 3301 Intermediate Figurative Sculpture

(A-F only; )  
52680 502 LEC, Study Abroad; 3 cr.

### 3302 Intermediate Oil Painting

(A-F only; )  
53306 502 LEC, Study Abroad; 3 cr.

### 3303 Intermediate Life Drawing

(A-F only; )  
53308 502 LEC, Study Abroad; 3 cr.

**3332 Understanding Modern Italy: An Anthropology of Contemporary Italian Society**  
(Student Option; )  
51541 502 LEC, Study Abroad; 3 cr.

**3333 Political and Economic History of Europe in the 20th Century**  
(A-F only; )  
52681 502 LEC, Study Abroad; 3 cr.

**3334 Great Works of Italian Literature**  
(A-F only; )  
53309 502 LEC, Study Abroad; 3 cr.

**3335 Cross Cultural Psychology**  
(A-F only; )  
53310 502 LEC, Study Abroad; 3 cr.

### Study Abroad in London (LNDN)

**3202 Integrated Course**  
(Student Option; )  
59613 500 LEC, Study Abroad; 1-6 cr.

**3213 20th and 21st Century Art**  
(A-F only; )  
50910 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3323 Shakespeare in London**  
(A-F only; )  
50911 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3324 20th Century British Fiction**  
(A-F only; )  
50912 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3328 British Cinema**  
(A-F only; )  
50913 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3333 Understanding Modern Britain**  
(A-F only; )  
50914 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3342 European Economic History**  
(A-F only; )  
50915 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3343 Postwar Popular Culture**  
(A-F only; )  
50916 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3355 London Through Internships**  
(A-F only; )  
50917 500 LEC, Study Abroad; Katherine Moss; 3-6 cr.

**3412 British Broadcasting Today**  
(A-F only; )  
50918 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3432 Western European Government and Politics**  
(A-F only; )  
50919 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3523 Theatricality: Understanding the Possibilities in Theater**  
(Student Option; )  
50920 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3524 Theatre Production Management**  
(A-F only; )  
50921 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3533 Women in Britain in the 21st Century**  
(A-F only; )  
50922 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3733 International Finance**  
(A-F only; )  
50923 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3752 International Marketing**  
(A-F only; )  
50924 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3753 International Economics**  
(A-F only; )  
50925 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3754 Creative Writing**  
(A-F only; )  
53311 500 LEC, Study Abroad; 3 cr.

**3757 British History in the 20th Century**  
(A-F only; )  
53312 500 LEC, Study Abroad; 3 cr.

### Study Abroad in Venezuela (VENZ)

**1001 Beginning Spanish**  
(A-F only; )  
51060 500 LEC, Study Abroad; Katherine Moss; 5 cr.

**1002 Beginning Spanish**  
(A-F only; Prereq: Span 1001)  
50926 500 LEC, Study Abroad; Katherine Moss; 5 cr.

**1003 Intermediate Spanish**  
(A-F only; Prereq: Span 1002)  
50927 500 LEC, Study Abroad; Katherine Moss; 5 cr.

**1004 Intermediate Spanish**  
(A-F only; Prereq: Span 1003)  
50928 500 LEC, Study Abroad; Katherine Moss; 5 cr.

**3015 Spanish Composition and Communication**  
(A-F only; )  
51061 500 LEC, Study Abroad; Katherine Moss; 4 cr.

**3016 Advanced Spanish Conversation and Composition**  
(A-F only; )  
50929 500 LEC, Study Abroad; Katherine Moss; 4 cr.

**3021 Advanced Communication Skills**  
(A-F only; )  
50930 500 LEC, Study Abroad; Katherine Moss; 4 cr.

**3022 Advanced Business Spanish**  
(A-F only; )  
50931 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3040 Cross-Cultural Communication in Spanish**  
(A-F only; Prereq: Two yrs college-level Spanish)  
50932 500 LEC, Study Abroad; 3 cr.

**3041 International Economics in Spanish**  
(A-F only; )  
50933 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3104W The Art of Reading Literary Texts**  
(Student Option; WI)  
50934 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3106 Latin American Art**  
(A-F only; )  
52685 500 LEC, Study Abroad; 3 cr.

**3107W Introduction to the Study of Hispanic Linguistics**  
(A-F only; Prereq: Two yrs college-level SpanishWI)  
50935 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3108 The Spain of Cervantes' Don Quixote: History and Fiction**  
(A-F only; Prereq: Adv-lev written/spoken Span)  
50936 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3200 Field Botany in the Andes in Spanish**  
(A-F only; )  
50937 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3251 Spanish-American Literature: Aspects of Prose and Fiction**  
(A-F only; Prereq: Two yrs col-lev Span)  
50938 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3261 Natural Resource Economics (in Spanish)**  
(Student Option; )  
50939 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3262 Natural Resource Development**  
(A-F only; )  
50940 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3263 Sustainable Tropical Agriculture (in Spanish)**  
(Student Option; )  
50941 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3401 History of Venezuela**  
(A-F only; Prereq: Two yrs col-lev Span)  
50942 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3402 Curriculum and Material Development**  
(A-F only; )  
50943 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3403 Applied Linguistics**  
(A-F only; )  
50944 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3404 Testing and Evaluation of TESL**  
(A-F only; )  
50945 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3405 Methods of Teaching English Proficiency**  
(A-F only; )  
50946 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3407 Tropical Ecology in Spanish**  
(A-F only; )  
50947 500 LEC, Study Abroad; Katherine Moss; 4 cr.

**3410 Cultural Anthropology**  
(A-F only; )  
50948 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3480 Caribbean Literature**  
(A-F only; Prereq: Two yrs col-lev Span)  
50949 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3500 History of the Spanish Language**  
(A-F only; )  
52686 500 LEC, Study Abroad; 3 cr.

**3510 Latin American Politics and Civilizations**  
(A-F only; Prereq: Two yrs col-lev Span)  
50950 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3511 Film Criticism and Appreciation in Latin America**  
(A-F only; Prereq: Two yrs col-lev Span)  
50951 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3512W Spanish-American Civilization: Modern Latin America**  
(A-F only; Prereq: Two yrs college-level SpanishWI)  
50952 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3513 Latin America and Cultural Discourse**  
(A-F only; Prereq: Two yrs col-lev Span)  
50953 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3520 Geography of Venezuela in Spanish**  
(A-F only; Prereq: Two yrs college-level Spanish)  
50954 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3521 Education in Venezuela**  
(A-F only; Prereq: Two yrs col-lev Span)  
50955 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3540 Folklore in Latin America in Spanish**  
(A-F only; Prereq: Two yrs college-level Spanish)  
50956 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3590 Children's Literature**  
(A-F only; Prereq: Two yrs col-lev Span)  
50957 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3600 Spanish Linguistics**  
(A-F only; )  
52687 500 LEC, Study Abroad; 3 cr.

**3604 International Finance in Spanish**  
(A-F only; )  
50958 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3650 Cross-Cultural Management**  
(A-F only; )

50959 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3661 International Business in Spanish**  
(A-F only; )

50960 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3703 Psycholinguistics**

(A-F only; Prereq: Two yrs col-lev Span)

50961 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3704 Sociolinguistics**

(A-F only; Prereq: Two yrs col-lev Span)

50962 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3705 Structure of Spanish: Phonology and Phonetics**

(A-F only; Prereq: Two yrs col-lev Span)

50963 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3920 Venezuelan Literature**

(A-F only; )

50964 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**Summer Study in Rome (ROME)**

**1001 Beginning Italian I**

(Student Option; )

61108 500 LEC, Study Abroad; 5 cr.

59530 501 LEC, Study Abroad; 5 cr.

**1002 Beginning Italian II**

(Student Option; )

61109 500 LEC, Study Abroad; 5 cr.

59531 501 LEC, Study Abroad; 5 cr.

**1003 Intermediate Italian I**

(Student Option; )

61110 500 LEC, Study Abroad; 5 cr.

59532 501 LEC, Study Abroad; 5 cr.

**1004 Intermediate Italian II**

(Student Option; )

61111 500 LEC, Study Abroad; 5 cr.

59533 501 LEC, Study Abroad; 5 cr.

**1200 Intensive Italian Language and Culture**

(Student Option; )

61112 500 LEC, Study Abroad; 3 cr.

59534 501 LEC, Study Abroad; 3 cr.

**1300 Italian for Design**

(Student Option; )

61113 500 LEC, Study Abroad; 1 cr.

**3001 Society, Citizenship, and Ethics in Post-Unification Italy**

(Student Option; )

59535 501 LEC, Study Abroad; 3 cr.

**3002 Roman Art**

(Student Option; )

59536 501 LEC, Study Abroad; 3 cr.

**3003 Made in Italy**

(Student Option; )

59537 501 LEC, Study Abroad; 3 cr.

**3004 Italian Communications: Popes, Politicians, and Popular Culture**

(Student Option; )

59538 501 LEC, Study Abroad; 3 cr.

**3005 The History of Art and Design in Italy: From Pompeii to Present**

(Student Option; )

59539 501 LEC, Study Abroad; 3 cr.

**3006 Community Engagement in Rome**

(Student Option; )

59541 501 LEC, Study Abroad; 3 cr.

**3007 Design Theory, Technology, and the Environment**

(Student Option; )

59542 501 LEC, Study Abroad; 3 cr.

**3008 Sustainable Foods of Italy**

(Student Option; )

59543 501 LEC, Study Abroad; 3 cr.

**3009 Italian Cinema**

(Student Option; )

59544 501 LEC, Study Abroad; 3 cr.

**3010 Neighborhoods of Modern Rome**

(Student Option; )

59545 501 LEC, Study Abroad; 3 cr.

**3011 Roman Design Studio**

(Student Option; )

59546 501 LEC, Study Abroad; 6 cr.

**3012 Intensive Italian Language and Culture**

(Student Option; )

59547 501 LEC, Study Abroad; 3 cr.

**3013 Internships in Rome: A Comparative Approach to the Italian Workforce**

(Student Option; )

59548 501 LEC, Study Abroad; 3-6 cr.

**Supply Chain and Operations (SCO)**

**2550 Business Statistics: Data Sources, Presentation, and Analysis**

(A-F or Audit; Prereq: [Math 1031 or equiv], at least 30 cr)

57600 003 DIS, 13:45-15:25 MW, Carlson School of Mgmt L-110, In Person Term Based; Deborah Brashear; 4 cr.

57598 001 DIS, 8:00- 9:40 TTh, Carlson School of Mgmt L-110, In Person Term Based; Deborah Brashear; 4 cr.

57599 002 DIS, 11:50-13:30 MW, Carlson School of Mgmt L-110, In Person Term Based; Deborah Brashear; 4 cr.

**3001 Introduction to Operations Management**

(A-F or Audit; )

58260 006 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-108, In Person Term Based; Karthik Natarajan; 3 cr.

57601 001 LEC, 8:15- 9:30 TTh, Room TBA, In Person Term Based; Deborah Brashear; 3 cr.

57604 004 LEC, 9:45-11:00 MW, Room TBA, In Person Term Based; Deborah Brashear; 3 cr.

57602 002 LEC, 11:15-12:30 WF, Room TBA, In Person Term Based; Deborah Brashear; 3 cr.

57603 003 LEC, 13:00-14:15 TTh, Room TBA, In Person Term Based; Deborah Brashear; 3 cr.

57605 005 LEC, 13:00-14:15 MW, Room TBA, In Person Term Based; Deborah Brashear; 3 cr.

**3045 Sourcing and Supply Management**

(A-F only; Prereq: 3001)

57606 001 LEC, 8:00- 9:40 MW, Carlson School of Mgmt 2-224, In Person Term Based; Deborah Brashear; 2 cr.

**3048 Transportation and Logistics Management**

(A-F only; Prereq: 3001)

67302 020 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-132, In Person Term Based; 2 cr.

**3056 Supply Chain Planning and Control**

(A-F or Audit; Prereq: 3001 or instr consent)

57607 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-147, In Person Term Based; Deborah Brashear; 4 cr.

**3059 Quality Management and Lean Six Sigma**

(A-F or Audit; Prereq: 3001 or equiv or instr consent)

57608 020 LEC, 17:45-21:05 Th, Hanson Hall, Room 1-105, In Person Term Based; Deborah Brashear; 4 cr.

**3072 Managing Technologies in the Supply Chain**

(A-F only; Prereq: 3001)

57609 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Deborah Brashear; 2 cr.

**4065W Supply Chain and Operations Strategy**

(A-F only; Prereq: 3001, 3056, 3059, 4 [OMS or SCO] elective crWI)

57610 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-127, In Person Term Based; Deborah Brashear; 4 cr.

**6041 Project Management**

(A-F only; Prereq: [MBA 6220 or equiv], MBA student)

57611 050 LEC, 8:00-17:00 F, Carlson School of Mgmt 2-213, In Person Term Based; Deborah Brashear; 2 cr.

**6056 Managing Supply Chain Operations**

(A-F only; Prereq: [MBA 6220 or equiv], MBA student)

57612 060 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-224, In Person Term Based; Deborah Brashear; 4 cr.

**6072 Managing Technologies in the Supply Chain**

(A-F or Audit; Prereq: [MBA 6220 or instr consent], MBA student)

67303 060 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Kingshuk Sinha; 2 cr.

**6081 Global Operations Strategy**

(A-F only; Prereq: [MBA 6220 or equiv], MBA student)

59748 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt L-126, In Person Term Based; 4 cr.

**6850 Topics in Operations and Management Science**

(A-F only; )

60750 060 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-135, In Person Term Based; 2-4 cr.

68372 050 LEC, 8:00-17:00 F, Carlson School of Mgmt 1-135, 8:00-17:00 F, Carlson School of Mgmt 1-135, 8:00-17:00 F, Carlson School of Mgmt 1-135, In Person Term Based; Rachna Shah; 2-4 cr.

**8755 Behavioral Operations**

(A-F only; Prereq: Business admin Ph.D. student or instr consent)

68706 001 LEC, In Person Term Based; Karen Donohue; 3 cr.

**8892 Readings in Operations and Management Science**

(Student Option; Prereq: Business admin PhD student or instr consent)

57613 001 IND, In Person Term Based; Deborah Brashear; 1-8 cr.

**8894 Graduate Research in Operations and Management Science**

(Student Option; Prereq: Business admin PhD student or instr consent)

57614 001 IND, In Person Term Based; Deborah Brashear; 1-8 cr.

**Surgery (SURG)**

**7500 Externship in General Surgery**

(H-N or Audit; )

48063 007 FWK, 7:45-11:30 Th, , In Person Term Based; Gina Deveney; 6 cr.

48062 006 FWK, 7:45-11:30 F, , In Person Term Based; Niea Johnson; 6 cr.

48064 008 FWK, 7:45-11:30 Th, , In Person Term Based; Niea Johnson; 6 cr.

**7501 Preparation for Surgical Internship**

(H-N only; Prereq: 7500 Surgery Clerkship, or equiv; designed for student entering general surgery categorical resident or beginning a surgical subspecialty or preliminary candidate for surgery)

55921 001 ROT, In Person Term Based; 4 cr.

**7502 Externship in the Surgical Intensive Care Unit**

(H-N or Audit; Prereq: 7500)

48065 006 FWK, In Person Term Based; Gina Deveney; 2-6 cr.

48066 007 FWK, In Person Term Based; Gina Deveney; 2-6 cr.

**7503 Research Problems in Surgery**

(H-N or Audit; )

48067 006 IND, In Person Term Based; Gina Deveney; 2-8 cr.

48068 007 IND, In Person Term Based; Gina Deveney; 2-8 cr.

48069 008 IND, In Person Term Based; Gina Deveney; 2-8 cr.

**7504 Externship in Hospital-based Nutrition**

(H-N or Audit; )

48072 008 FWK, In Person Term Based; 3-6 cr.

48070 006 FWK, In Person Term Based; Gina Deveney; 3-6 cr.  
48071 007 FWK, In Person Term Based; Gina Deveney; 3-6 cr.

### 7509 Externship in Burn Surgery (H-N or Audit; Prereq: 7500)

48073 007 FWK, In Person Term Based; Gina Deveney; 3-6 cr.  
48074 008 FWK, In Person Term Based; Gina Deveney; 3-6 cr.

### 7510 Advanced Surgery Externship (Subinternship) at Fairview-University Medical Center

(H-N or Audit; Prereq: 7500, dept consent)  
48076 007 FWK, In Person Term Based; Cathryn Larson; 2-6 cr.  
48077 008 FWK, In Person Term Based; Cathryn Larson; 2-6 cr.  
48075 006 FWK, In Person Term Based; Gina Deveney; 2-6 cr.

### 7511 Advanced Surgery Externship (Subinternship) at VA Medical Center

(H-N or Audit; Prereq: 7500, dept consent)  
52783 001 FWK, In Person Term Based; Niesa Johnson; 3-6 cr.

### 7512 Advanced Surgery Externship (Subinternship) at Regions Hospital

(H-N or Audit; Prereq: 7500, dept consent)

55922 001 FWK, In Person Term Based; 3-6 cr.

### 7513 Advanced Surgery Externship (Subinternship) at Hennepin County Medical Center

(H-N or Audit; Prereq: 7500, dept consent)  
52784 001 FWK, In Person Term Based; Niesa Johnson; 2-6 cr.

### 7522 Plastic and Reconstructive Surgery (H-N or Audit; Prereq: 7500)

48081 011 FWK, In Person Term Based; 2-4 cr.  
48079 009 FWK, In Person Term Based; Cathryn Larson; 2-4 cr.  
48078 008 FWK, In Person Term Based; Gina Deveney; 2-4 cr.  
48080 010 FWK, In Person Term Based; Niesa Johnson; 2-4 cr.

### 7523 Externship in Colon and Rectal Surgery

(H-N or Audit; Prereq: 7500)  
48084 012 FWK, In Person Term Based; 3-6 cr.  
48085 013 FWK, In Person Term Based; 3-6 cr.  
48086 014 FWK, In Person Term Based; 3-6 cr.  
48087 015 FWK, In Person Term Based; 3-6 cr.  
48083 011 FWK, In Person Term Based; Cathryn Larson; 3-6 cr.  
48082 010 FWK, In Person Term Based; Gina Deveney; 3-6 cr.

### 7524 Externship in Outpatient and Ambulatory Surgery

(H-N or Audit; Prereq: instr consent)  
50005 001 ROT, In Person Term Based; Gina Deveney; 3 cr.

### 7525 Externship in Cardiovascular and Thoracic Surgery

(H-N or Audit; Prereq: 7500)  
53406 001 FWK, In Person Term Based; Niesa Johnson; 3-6 cr.

### 7526 Externship in Pediatric Surgery (H-N or Audit; Prereq: 7500)

51707 001 FWK, In Person Term Based; Niesa Johnson; 2-6 cr.

### 7910 Surgery Medical Residency (No Grade Associated; )

56697 001 FWK, In Person Term Based; 6 cr.

### 7930 Surgery Medical Fellowship (No Grade Associated; )

56698 001 FWK, In Person Term Based; 6 cr.

### 8200 Clinical Surgical Problems in Management

(A-F or Audit; Prereq: Grad surg major)  
48152 002 FWK, In Person Term Based; Niesa Johnson; 3 cr.

### 8201 Surgery Roentgenological Pathology Conference

(A-F or Audit; Prereq: Grad surg major)  
48153 002 LEC, In Person Term Based; Cathryn Larson; 1 cr.

### 8202 Surgical Research

(A-F or Audit; Prereq: Grad surg major)  
48154 002 IND, In Person Term Based; Michael Boland; 3 cr.  
48155 003 IND, In Person Term Based; Michael Boland; 3 cr.

### 8203 Surgery Complications and Research Conference

(A-F or Audit; Prereq: Grad surg major)  
48156 002 LEC, In Person Term Based; 1 cr.

### 8207 Transplantation Conference

(A-F or Audit; Prereq: Grad surg major)  
48157 002 LEC, In Person Term Based; Cathryn Larson; 1 cr.

### 8293 Applied Statistics

(S-N or Audit; Prereq: Grad student in [surgery or experimental surgery or health sciences] or)  
51106 001 IND, In Person Term Based; Angelika Gruessner; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49169 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49260 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49364 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49469 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49568 001 IND, In Person Term Based; 1-24 cr.

## Sustainability Studies (SUST)

### 3003 Sustainable People, Sustainable Planet

(Student Option; Prereq: Soph or jr or srENV)  
54915 001 LEC, 9:45-11:00 TTh, Hanson Hall, Room 1-107, In Person Term Based; 3 cr.

### 3480 Topics in Sustainability

(A-F only; )  
55659 001 LEC, 12:20-13:10 F, Magrath Library 6, In Person Term Based; Beth Mercer-Taylor; 1-4 cr.

### 4004 Sustainable Communities

(A-F only; Prereq: [3003 or GLOS 3304, [jr or sr] in sustainability studies minor] or instr consent)  
54821 001 LEC, 11:45-13:00 TTh, Ruttan Hall 143, In Person Term Based; 3 cr.

## Sustainable Agricultural Syst (SAGR)

### 4096 Professional Experience Program: Internship in Sustainable Agriculture

(S-N or Audit; Prereq: Undergraduate minor in sustainable agriculture)  
69037 001 LEC, In Person Term Based; Craig Sheaffer; 1-3 cr.

### 8020 Field Experience in Sustainable Agriculture

(S-N or Audit; Prereq: Coursework in biological or social sciences that provides intro to ag practices or issues)

47402 001 FWK, In Person Term Based; Nicholas Jordan; 1-4 cr.

## Sustainable Systems Management (SSM)

### 4504W Sustainable Products Systems Management

(A-F only; Prereq: Jr or Sr or instr consentWI)  
52383 001 LEC, In Person Term Based; Meets With: 001 SSM 5504; 3 cr.

### 5504 Sustainable Products Systems Management

(A-F only; )  
52515 001 LEC, In Person Term Based; Meets With: 001 SSM 4504W; 3 cr.

## Swahili (SWAH)

### 1222 Beginning Swahili II

(Student Option; Prereq: 1221 or equiv)  
53772 002 LEC, 18:00-20:30 TTh, Blegen Hall 430, In Person Term Based; Meets With: 002 SWAH 4222; Angaluki Muaka; 5 cr.  
53570 001 LEC, 12:20-13:10 MTWThF, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 001 SWAH 4222; Angaluki Muaka; 5 cr.

### 3226 Intermediate Swahili II

(Student Option; Prereq: 3225 or equiv)  
55793 001 LEC, 14:30-17:00 TTh, Carlson School of Mgmt 1-149, In Person Term Based; Meets With: 001 SWAH 4226; Angaluki Muaka; 5 cr.

### 4222 Beginning Swahili II

(Student Option; Prereq: Grad student)  
53927 002 LEC, 18:00-20:30 TTh, Blegen Hall 430, In Person Term Based; Meets With: 002 SWAH 1222; Angaluki Muaka; 2 cr.  
53926 001 LEC, 12:20-13:10 MTWThF, Hubert H. Humphrey Center 15, In Person Term Based; Meets With: 001 SWAH 1222; Angaluki Muaka; 2 cr.

### 4226 Intermediate Swahili II

(Student Option; Prereq: [4225 or equiv], grad student)  
55108 001 LEC, 14:30-17:00 TTh, Carlson School of Mgmt 1-149, In Person Term Based; Meets With: 001 SWAH 3226; Angaluki Muaka; 2 cr.

## Swedish (SWED)

### 1002 Beginning Swedish

(Student Option; Prereq: 1001)  
47404 001 DIS, 11:15-12:05 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 001 SWED 4002; 5 cr.  
48594 002 DIS, 16:40-18:05 MTTh, Kolthoff Hall 136, In Person Term Based; Meets With: 002 SWED 4002; 5 cr.

### 1004 Intermediate Swedish

(Student Option; Prereq: 1003)  
60430 001 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 001 SWED 4004; Lena Norrman; 5 cr.

### 4002 Beginning Swedish

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
48455 001 DIS, 11:15-12:05 MTWThF, Kolthoff Hall 136, In Person Term Based; Meets With: 001 SWED 1002; 2 cr.  
48595 002 DIS, 16:40-18:05 MTTh, Kolthoff Hall 136, In Person Term Based; Meets With: 002 SWED 1002; 2 cr.

### 4004 Intermediate Swedish

(Student Option; Prereq: 1004 in another language or passing score on LPE or grad student)  
60431 001 DIS, 13:25-14:15 MTWThF, Kolthoff Hall 132, In Person Term Based; Meets With: 001 SWED 1004; Lena Norrman; 2 cr.

## TMD & Orofacial Pain (TMDP)

### 8440 Advanced Theory and Principles of TMD and Orofacial Pain

(A-F or Audit; )  
49739 001 LEC, In Person Term Based; 0-3 cr.

**8441 Seminar in Temporomandibular Disorders & Orofacial Pain**

(A-F or Audit; )  
49740 001 LEC, In Person Term Based; Mariona Mulet Pradera; 1 cr.

**8442 Advanced Clinical Temporomandibular Disorders and Orofacial Pain**

(A-F or Audit; Prereq: Participation in TMJ and orofacial pain advanced education program)  
49741 001 FWK, In Person Term Based; Mariona Mulet Pradera; 1-4 cr.

**Theatre Arts (TH)****1101V Honors Section: Introduction to the Theater**

(A-F only; Prereq: Honors student(AH,WI))  
50119 001 LEC, 13:00-14:15 M, Anderson Hall 350, In Person Term Based; Meets With: 001 TH 1101W; 3 cr.  
50120 081 DIS, 13:00-14:15 W, Rarig Center 10, In Person Term Based; 3 cr.

**1101W Introduction to the Theatre**

(Student Option; AH,WI)  
48967 003 DIS, 13:00-14:15 W, Rarig Center 64, In Person Term Based; 3 cr.  
48966 002 DIS, 13:00-14:15 F, Rarig Center 90, In Person Term Based; 3 cr.  
48968 004 DIS, 13:00-14:15 F, Rarig Center 506 - Studio A, In Person Term Based; 3 cr.  
48806 001 LEC, 13:00-14:15 M, Anderson Hall 350, In Person Term Based; Meets With: 001 TH 1101V; 3 cr.

**1301 Acting/Non-Majors**

(Student Option; )  
68286 002 LEC, 11:15-12:30 MW, Rarig Center 10, In Person Term Based; 3 cr.  
48807 001 LEC, 18:00-21:00 M, Rarig Center 10, In Person Term Based; T. Mychael Rambo; 3 cr.

**1321 Beginning Acting: Fundamentals of Performance**

(Student Option; Prereq: 1101 or concurrent registration is required (or allowed) in 1101)  
47365 002 LAB, 9:05-11:00 TTh, Rarig Center 20, In Person Term Based; Barbra Berlovitz; 3 cr.  
50508 001 LAB, 9:05-11:00 MW, Rarig Center 10, In Person Term Based; Luverne Seifert; 3 cr.

**1322 Creating the Performance**

(Student Option; Prereq: 1321 or concurrent registration is required (or allowed) in 1321 or 1501 or concurrent registration is required (or allowed) in 1501)  
56433 002 LAB, 9:05-11:00 TTh, Rarig Center 90, In Person Term Based; 3 cr.  
56432 001 LAB, 9:05-11:00 MW, Rarig Center 90, In Person Term Based; Michael Sommers; 3 cr.

**1381 New Voices**

(S-N only; Prereq: [Fr or transfer] student from BFA actor training or BA or BFA dance or BA theater)  
56559 001 LAB, 20:00-22:30 MTWThF, , In Person Term Based; 1 cr.

**1395 BFA Acting II**

(A-F or Audit; Prereq: 1391)  
51499 001 LAB, 14:30-18:00 M, Blegen Hall 135, 12:00-13:45 F, Rarig Center 20, 14:30-18:00 Th, Rarig Center 20, 15:45-18:15 T, Rarig Center 20, In Person Term Based; Steve Cardamone; 3 cr.

**1396 BFA Voice and Speech II**

(A-F or Audit; Prereq: 1392)  
51500 001 LAB, 15:45-18:15 WF, Rarig Center 10, In Person Term Based; Lucinda Holshue; 2 cr.

**1397 BFA Movement II**

(A-F or Audit; Prereq: 1393)  
51501 001 LAB, 13:15-15:15 T, Rarig Center 506 - Studio A, 13:55-15:20 W, Rarig Center 506 - Studio A, 14:00-15:30 F, , 12:25-13:55 Th, Rarig Center 10, In Person Term Based; Margaret Emery; 2 cr.

**1501 Introduction to Design and Technology for Live Performance**

(A-F only; Prereq: 1101 or concurrent registration is required (or allowed) in 1101)

55230 001 LEC, 11:15-12:05 TTh, Rarig Center 210, In Person Term Based; Torry Bend; 3 cr.

**1950 Topics in Theater**

(Student Option; )  
67507 001 LEC, In Person Term Based; 1-3 cr.

**2395 BFA Acting IV**

(A-F or Audit; Prereq: BFA-Acting sophomore)  
51523 001 LAB, 15:00-17:30 M, Blegen Hall 240, 13:25-16:00 T, Rarig Center 10, 15:30-18:30 W, Rarig Center 20, 14:00-15:20 F, Rarig Center 20, 19:00-23:00 TWThF, Room TBA, 12:00-17:00 Sa, Rarig Center 90, 12:00-17:00 Sa, Room TBA, 12:00-17:00 Sa, Rarig Center 90, 12:00-17:00 Sa, Room TBA, In Person Term Based; Steve Cardamone; 3 cr.

**2396 BFA Voice and Speech IV**

(A-F or Audit; Prereq: BFA-acting, sophomore)  
51502 001 LAB, 16:15-18:30 T, Rarig Center 10, 12:20-13:50 F, Rarig Center 10, 15:00-18:00 Th, Rarig Center 10, In Person Term Based; Deborah Pearson; 2 cr.

**2397 BFA Movement IV**

(A-F or Audit; Prereq: BFA-acting sophomore)  
51503 001 LAB, 14:05-15:15 W, , 15:35-17:00 F, , 12:50-14:45 Th, , In Person Term Based; Brian Sostek; 2 cr.

**3100 Theatre Practicum**

(S-N or Audit; )  
47366 001 LAB, In Person Term Based; Christine Swartwout; 1 cr.

**3120 Theatre: Theory and Practice**

(Student Option; Prereq: 1101)  
50509 001 LEC, 13:25-15:20 MW, Rarig Center 20, In Person Term Based; 3 cr.

**3172 History of the Theatre: Age of Enlightenment to Present**

(Student Option; Prereq: Th major or instr consent)  
52349 001 LEC, 10:10-12:05 TTh, Blegen Hall 250, In Person Term Based; Sonali Pahwa; 3 cr.

**3314 Text and the Actor**

(A-F or Audit; Prereq: 1101, 1321, 1322)  
68283 001 LAB, 9:05-11:00 TTh, Rarig Center 10, In Person Term Based; Elizabeth Nash; 3 cr.

**3316 Voice for the Actor**

(A-F only; Prereq: 1101, 1321, 1322)  
60408 001 LAB, 9:05-11:00 MW, Rarig Center 20, In Person Term Based; 3 cr.

**3330 Physical Approaches to Acting**

(Student Option; Prereq: 1322, [3314 or concurrent registration is required (or allowed) in 3314], audition, instr consent)  
52735 001 LAB, 13:25-15:20 TTh, Rarig Center 90, In Person Term Based; Kym Longhi; 3 cr.

**3332 Circus Performance**

(A-F only; )  
67508 001 LAB, 13:25-15:20 M, Rarig Center 506 - Studio A, In Person Term Based; Margaret Emery; 1 cr.

**3361 Introductory Musical Theater**

(A-F or Audit; )  
58012 001 LAB, 9:05-11:00 MW, Rarig Center 506 - Studio A, In Person Term Based; Dawn Baker; 3 cr.

**3370 BA Mentoring**

(A-F only; )  
60412 003 LAB, 15:30-18:00 F, Rarig Center 45, In Person Term Based; Elizabeth Nash; 1 cr.  
60411 002 LAB, 15:30-18:00 F, Rarig Center 20, In Person Term Based; Lisa Channer; 1 cr.  
60410 001 LAB, 15:30-18:00 F, Rarig Center 90, In Person Term Based; Luverne Seifert; 1 cr.  
60413 004 LAB, 15:30-18:00 F, Blegen Hall 210, In Person Term Based; Michael Sommers; 1 cr.

**3395 BFA Intensive I**

(A-F or Audit; Prereq: BFA-acting jr)  
51504 001 LAB, 15:35-18:00 TTh, Rarig Center 90, 12:00-14:30 M, Blegen Hall 435, 15:35-17:30 F, Rarig Center 20, In Person Term Based; Steve Cardamone; 2 cr.

**3398 BFA Rehearsal & Performance I**

(A-F or Audit; Prereq: BFA-acting jr)  
51505 001 LAB, 10:00-17:00 Sa, Room TBA, 19:00-22:30 TWThF, Room TBA, In Person Term Based; Deborah Pearson; 2 cr.

**3399 BFA Rehearsal and Performance II**

(A-F or Audit; Prereq: BFA-acting jr)  
51506 001 LAB, 19:00-22:30 TWThF, Room TBA, 10:00-17:00 Sa, Room TBA, In Person Term Based; Deborah Pearson; 2 cr.

**3531 Introduction to Theatrical Costume Design**

(Student Option; Prereq: TH 3571)  
56434 001 LEC, 13:25-15:20 TTh, Rarig Center 275, In Person Term Based; Matthew Lefebvre; 3 cr.

**3541 Introduction to Stage Lighting Design**

(Student Option; Prereq: 3571)  
56778 001 LEC, 11:15-13:10 MW, Rarig Center 210, In Person Term Based; Marcus Dilliard; 3 cr.

**3559 Introduction to Sound Design for the Theatre**

(Student Option; Prereq: 1501)  
67492 001 LAB, 13:25-15:20 MW, Rarig Center 210, In Person Term Based; Montana Johnson; 3 cr.

**3571 Introduction to Stage Technology**

(A-F only; Prereq: 1501)  
55229 001 LEC, 11:15-13:10 MW, Rarig Center 185, 11:15-13:10 MW, Rarig Center 190, In Person Term Based; Susan Binder-Pettigrew; 3 cr.

**3716 Stage Management**

(A-F only; Prereq: 1501 or instr consent)  
56611 001 LAB, 15:35-17:30 MW, Rarig Center 275, In Person Term Based; Meets With: 001 TH 5716; Christine Swartwout; 4 cr.

**3950 Topics in Theatre**

(Student Option; )  
67510 001 LEC, In Person Term Based; Luverne Seifert; 1-4 cr.

**3993 Directed Study**

(Student Option; Prereq: 6 Th cr, instr consent, dept consent, college consent)  
52324 001 IND, In Person Term Based; 1-6 cr.

**4115 Intermediate Playwriting**

(Student Option; Prereq: 3115 or [writing sample, instr consent])  
60414 001 LEC, 9:05-12:05 F, Blegen Hall 125, In Person Term Based; Kira Obolensky; 3 cr.

**4321 Career Preparation for the Actor**

(Student Option; Prereq: 3322)  
67511 001 LEC, 15:35-17:30 MW, Rarig Center 90, In Person Term Based; Shirley Diercks; 3 cr.

**4380 Creative Collaboration**

(Student Option; Prereq: Audition, interview, instr consent)  
53007 001 LAB, 10:00-17:00 Sa, Blegen Hall 210, 19:00-22:30 MTWThF, Blegen Hall 105, In Person Term Based; Luverne Seifert; 1-3 cr.  
53621 002 LAB, 10:00-17:00 Sa, Room TBA, 19:00-22:30 MTWThF, Blegen Hall 105, In Person Term Based; Luverne Seifert; 1-3 cr.

**4395 BFA Intensive III**

(A-F or Audit; Prereq: BFA-acting sr)  
51507 001 LAB, 14:30-18:00 M, Blegen Hall 335, 14:30-18:00 F, Rarig Center 506 - Studio A, 14:30-18:00 W, Blegen Hall 215, In Person Term Based; 2 cr.

**4398 BFA Rehearsal and Performance V**

(A-F or Audit; Prereq: BFA-acting sr)  
51508 001 LAB, 11:00-17:00 Sa, Room TBA, 19:00-23:00 MTWThF, Room TBA, In Person Term Based; Deborah Pearson; 2 cr.

**4399 BFA Rehearsal and Performance VI**

(A-F or Audit; Prereq: BFA-acting sr)  
51509 001 LAB, 10:00-17:00 Sa, Room TBA, 19:00-23:00 MTWTh, Room TBA, In Person Term Based; Deborah Pearson; 2 cr.

**4532 Makeup for the Actor**

(Student Option; )  
56522 001 LAB, 9:05-12:05 F, Rarig Center 64, In Person Term Based; Theresa Bundick; 2 cr.

**4711 Intermediate Stage Direction**

(Student Option; Prereq: 1322 or instr consent)  
60416 001 LEC, 13:25-15:20 TTh, Rarig Center 210, In Person Term Based; 3 cr.

**4901 Senior Seminar**

(S-N or Audit; Prereq: Sr, [Th or Dnce major])  
53781 001 IND, In Person Term Based; Sonja Kuffinec; 2 cr.

**4905H Honors: Tutorial Seminar in Theatre Arts**

(A-F only; Prereq: Credit will not be granted if credit has been received for: 4905; honors, theatre arts, dept consent; limit [2 cr for [cum laude or magna cum laude], 4 cr for summa cum laude])  
47423 001 IND, In Person Term Based; Margaret Werry; 2-4 cr.

**5100 Theatre Practicum**

(Student Option; Prereq: instr consent, dept consent; 4 cr of 3100 for undergrads)  
47367 001 FWK, In Person Term Based; 1-4 cr.

**5182W Contemporary Black Theatre: 1960-Present**

(Student Option; WI)  
60767 001 LEC, 9:05-11:00 MW, Social Sciences Building 278, In Person Term Based; Meets With: 001 AFRO 5182W; Dominic Taylor; 3 cr.

**5330 Comedy: Advanced Physical Performance Studio**

(A-F only; Prereq: 3331, instr consent)  
55026 001 LAB, 15:35-17:30 TTh, Rarig Center 506 - Studio A, In Person Term Based; Robert Rosen; 3 cr.

**5370 Hand, Mind, and Gesture: An Independent Study in the Creation of Image Driven Performance**

(Student Option; Prereq: 5355, instr consent)  
60417 001 LAB, 13:25-16:25 F, Social Sciences Building 278, In Person Term Based; Michael Sommers; 3 cr.

**5500 Theatre Design Practicum**

(Student Option; Prereq: Th 3521, 3531, or 3541)  
47368 001 FWK, In Person Term Based; 1-3 cr.

**5520 Scene Design**

(Student Option; Prereq: 3521)  
54369 001 LAB, 11:15-13:10 TTh, Rarig Center 275, In Person Term Based; Marcus Dilliard; 3 cr.

**5560 Drawing, Rendering, and Painting for the Theatre Designer II**

(Student Option; Prereq: 5510)  
56435 001 LAB, 11:15-13:10 MW, Rarig Center 275, In Person Term Based; Matthew Lefebvre; 3 cr.

**5580 Costume Technology**

(Student Option; Prereq: 3571 or grad or instr consent)  
68285 002 LEC, 18:30-21:30 MW, Rarig Center 64, In Person Term Based; Andrea Moriarity-Dahlberg; 3 cr.  
51199 001 LEC, 10:10-12:05 TTh, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew; 3 cr.

**5716 Stage Management for the Theatre**

(Student Option; Prereq: [1101, 1321, soph] or grad)  
55756 001 LAB, 15:35-17:30 MW, Rarig Center 275, In Person Term Based; Meets With: 001 TH 3716; Christine Swartwout; 4 cr.

**5760 Advanced Stage Management**

(Student Option; Prereq: 5716 or concurrent registration is required (or allowed) in 5716, instr consent; [4 cr max for undergrads])  
67493 001 FWK, In Person Term Based; Christine Swartwout; 2-3 cr.

**5950 Topics in Theatre**

(Student Option; )  
67497 004 LEC, 9:05-11:00 TTh, Rarig Center 275, In Person Term Based; 1-4 cr.  
61118 001 LEC, 11:15-13:10 TTh, Rarig Center 210, In Person Term Based; Marcus Dilliard; 1-4 cr.  
61125 002 LEC, 9:05-11:00 MW, Rarig Center 190, In Person Term Based; Martin Gwinup; 1-4 cr.  
61126 003 LEC, 11:15-13:10 TTh, Rarig Center 190, In Person Term Based; Martin Gwinup; 1-4 cr.

**5993 Directed Study**

(Student Option; Prereq: 6 Th cr, instr consent, dept consent, college consent.)  
47369 001 IND, In Person Term Based; 1-5 cr.

**8100 Theatre Practicum**

(Student Option; Prereq: instr consent, dept consent)  
47370 001 FWK, In Person Term Based; 1-4 cr.

**8112 History and Theory of Western Theatre: Medieval Through Renaissance**

(Student Option; )  
67378 001 LEC, 13:30-16:30 T, Rarig Center 550B, In Person Term Based; Sonja Kuffinec; 3 cr.

**8120 Seminar**

(Student Option; )  
67379 001 LEC, 9:05-12:05 F, Rarig Center 550B, In Person Term Based; 3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49171 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49262 001 IND, In Person Term Based; 1 cr.

**8500 Theatre Design Practicum**

(Student Option; Prereq: instr consent, dept consent)  
47371 001 FWK, In Person Term Based; 1-3 cr.

**8510 Professional Design Workshop**

(A-F only; Prereq: MFA candidate)  
60388 001 DIS, 18:30-21:00 M, Rarig Center 275, In Person Term Based; Marcus Dilliard; 2 cr.

**8590 Theatre Technology Practicum**

(Student Option; Prereq: instr consent, dept consent)  
47372 001 FWK, In Person Term Based; 1-3 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49366 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49498 001 IND, In Person Term Based; 1-18 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49570 001 IND, In Person Term Based; 1-24 cr.

**8950 Topics in Theatre**

(Student Option; )  
57817 002 LEC, In Person Term Based; 1-4 cr.

**8980 Internship**

(Student Option; Prereq: instr consent, dept consent)  
47374 001 FWK, In Person Term Based; 1-5 cr.

**8990 MFA Creative Thesis**

(Student Option; Prereq: instr consent, dept consent)  
47373 001 IND, In Person Term Based; 3-4 cr.

**8994 Directed Research**

(Student Option; Prereq: instr consent, dept consent)  
47375 001 IND, In Person Term Based; 1-5 cr.

**Therapeutic Radiology (TRAD)****7505 Externship in Radiation Oncology**

(H-N or Audit; )  
50003 001 FWK, In Person Term Based; Chung Lee; 3-4 cr.

**7507 Advanced Externship in Radiation Oncology**

(H-N or Audit; )  
55923 001 FWK, In Person Term Based; 6 cr.

**7510 Radiation Oncology Clinical Research**

(H-N or Audit; )  
55924 001 IND, In Person Term Based; 6 cr.

**7583 Fundamentals of Clinical Oncology**

(H-N or Audit; Prereq: Med 7500 or Ped 7501)  
50295 001 FWK, In Person Term Based; Kathryn Dusenbery; 4 cr.

**7910 Therapeutic Radiology Residency**

(No Grade Associated; )  
56700 001 FWK, In Person Term Based; 6 cr.

**7930 Therapeutic Radiology Fellowship**

(No Grade Associated; )  
56699 001 FWK, In Person Term Based; 6 cr.

**Toledo International Program (TLDO)****3022 Spanish for Business and Professional Life Development**

(A-F only; Prereq: Two yrs of college-level Spanish)  
50789 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3104W Art of Reading Literary Texts**

(A-F only; Prereq: Two yrs of college-level SpanishWI)  
50790 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3105W Cultural Heritage of Spain**

(A-F only; Prereq: Two yrs of college-level SpanishWI)  
50794 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3107W Introduction to the Study of Hispanic Linguistics**

(A-F only; WI)  
51107 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3211 Writers of the Spanish Empire and Its Decline**

(A-F or Audit; )  
51108 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3213 Spanish Feudal Society and Literature**

(A-F or Audit; )  
51109 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3214 The Age of Don Quijote**

(A-F or Audit; )  
51113 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3215 Spanish Golden Age Theater**

(A-F or Audit; )  
51116 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3222 Narrative in Spanish America**

(A-F or Audit; )  
51114 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3301 Archaeology of the Iberian Peninsula**

(A-F or Audit; Prereq: Two yrs of college level Spanish)  
50791 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3302 Ethnology and Folklore of the Iberian Peninsula**

(A-F or Audit; Prereq: Two yrs of college level Spanish)  
50792 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3303 Directed Studies in Anthropology and Archeology**

(A-F or Audit; Prereq: Two yrs of college-level Spanish)  
50800 500 IND, Study Abroad; Katherine Moss; 1-4 cr.

**3314 20th Century Spanish Art**

(A-F or Audit; )  
50798 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3515 Theology of Spanish Mysticism**

(A-F or Audit; Prereq: Two yrs of college level Spanish)  
50799 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3516 Spanish Philosophical Thought**

(A-F or Audit; Prereq: Two yrs of college level Spanish)  
50797 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3517 Introduction to the History and Present Situation of Spanish Women**

(A-F only; )  
51110 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3699 Advanced Individualized Spanish**

(A-F only; Prereq: Two yrs of college-level Spanish)  
50787 500 LEC, Study Abroad; Katherine Moss; 1-4 cr.  
50788 501 LEC, Study Abroad; Katherine Moss; 1-4 cr.

**3703 History of the Spanish Language**

(A-F only; )  
51111 500 LEC, Study Abroad; Katherine Moss; 3 cr.

**3706 Colloquial Spanish**

(A-F only; )

51112 500 LEC, Study Abroad; Katherine Moss; 3 cr.

### 3800 Society Through Spanish and Latin American Film

(A-F only; Prereq: Two yrs of college level Spanish)  
50795 500 LEC, Study Abroad; Katherine Moss; 3 cr.

### 3810 Seminar: Spanish Language Film

(A-F only; )  
51115 500 LEC, Study Abroad; Katherine Moss; 3 cr.

### 3970 Internships in Spain

(Student Option; Prereq: Two yrs of college-level Spanish)  
50796 500 LEC, Study Abroad; Katherine Moss; 3-6 cr.

## Toxicology (TXCL)

### 5000 Directed Research in Toxicology

(A-F or Audit; Prereq: instr consent)  
51117 001 LAB, In Person Term Based; Michael Murphy; 1-5 cr.

### 8012 Advanced Toxicology I

(A-F or Audit; Prereq: 5011 or BioC 4331, PubH 5104 or instr consent)  
50780 001 LEC, In Person Term Based; 3 cr.

### 8100 Investigative Toxicology

(A-F or Audit; Prereq: 8013 or instr consent)  
49688 001 LEC, 14:30-15:30 W, , In Person Term Based; 1 cr.

### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49172 001 IND, In Person Term Based; 1 cr.

### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49263 001 IND, In Person Term Based; 1 cr.

### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49367 001 IND, In Person Term Based; 1-6 cr.

### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49499 001 IND, In Person Term Based; 1-18 cr.

### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49571 001 IND, In Person Term Based; 1-24 cr.

## Translation and Interpreting (TRIN)

### 900 Special Education for Interpreters

(S-N only; )  
57521 001 LEC, 18:10-21:00 M, Folwell Hall 32, In Person Term Based; Meets With: 001 TRIN 3900; Valerie Franz; 0 cr.

### 990 Interpreting in Special Education Settings

(S-N only; )  
58772 001 LEC, 18:10-21:00 M, Folwell Hall 118, In Person Term Based; Valerie Franz; 0 cr.

### 3101 Introduction to Interpreting

(Student Option; Prereq: high level of proficiency in spoken English and another language; 3001 recommended)  
54342 001 LEC, 18:10-21:00 W, Folwell Hall 16, In Person Term Based; Scott Homler; 3 cr.

### 3102 Consecutive Interpreting

(Student Option; Prereq: 3101, high level of proficiency in [spoken English, another language])  
48212 001 LEC, 18:10-21:00 Th, Folwell Hall 119, In Person Term Based; Valerie Franz; 3 cr.

### 3900 Topics in Translation and Interpreting (Student Option; )

57531 001 LEC, 18:10-21:00 M, Folwell Hall 32, In Person Term Based; Meets With: 001 TRIN 900; Valerie Franz; 6 cr.

### 4201 Interpreting in Health Care Settings

(A-F or Audit; Prereq: 1201, 3102)  
53479 001 LEC, 18:10-21:00 W, Folwell Hall 118, In Person Term Based; Valerie Franz; 3 cr.

### 5993 Directed Study

(Student Option; )  
51702 001 IND, In Person Term Based; Megan Rodriguez; 1-3 cr.

## University College (UC)

### 1005 Global Perspectives on Higher Education

(Student Option; Prereq: International student)  
59454 002 LEC, 14:30-16:25 F, Ruttan Hall B26, In Person Term Based; Valerie Franz; 2 cr.  
56986 001 LEC, 12:20-14:15 F, Blegen Hall 125, In Person Term Based; Valerie Franz; 2 cr.

### 3201 Web Designer Introduction

(Student Option; )  
52773 002 LEC, 17:00-21:00 Th, Bruininks Hall 512B, In Person Term Based; David Husom; 4 cr.  
51557 001 LEC, 17:00-21:00 T, Bruininks Hall 512B, In Person Term Based; David Husom; 4 cr.

### 4301 Perspectives: Interrelationships of People and Animals in Society Today

(Student Option; )  
46090 001 LEC, In Person Term Based; Vicki Wilke; 2 cr.

## Urban Studies (URBS)

### 1001W Introduction to Urban Studies: The Complexity of Metropolitan Life

(A-F or Audit; WI)  
52692 001 LEC, 16:00-17:15 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 URBS 3001W; Mark Brinda; 3 cr.

### 3001W Introduction to Urban Studies: The Complexity of Metropolitan Life

(A-F or Audit; WI)  
57551 001 LEC, 16:00-17:15 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 URBS 1001W; Mark Brinda; 3 cr.

### 3202 Urban Studies Colloquium

(A-F or Audit; )  
50773 003 DIS, 17:30-19:30 M, Blegen Hall 430, In Person Term Based; Paula Pentel; 1 cr.  
49817 002 DIS, 18:00-20:00 T, Hubert H. Humphrey Center 60, In Person Term Based; Paula Pentel; 1 cr.  
47498 001 DIS, 18:00-20:00 T, Hubert H. Humphrey Center 60, In Person Term Based; Paula Pentel; 1 cr.

### 3500 Urban Studies Workshop

(A-F or Audit; Prereq: instr consent)  
48808 001 FWK, 15:00-18:00 W, Hubert H. Humphrey Center 184, In Person Term Based; Paula Pentel; 3 cr.  
51676 002 FWK, 18:00-21:00 W, Blegen Hall 210, In Person Term Based; Paula Pentel; 3 cr.

### 3751 Understanding the Urban Environment

(A-F or Audit; ENV)  
47500 001 LEC, 13:00-14:15 TTh, Anderson Hall 370, In Person Term Based; Paula Pentel; 3 cr.

### 3771 Fundamentals of Transit

(A-F only; )  
52724 001 LEC, 12:20-15:20 F, Blegen Hall 110, In Person Term Based; Francis Loetterle; 3 cr.

### 3871 A Suburban World

(Student Option; )  
61073 001 LEC, 14:45-17:15 Th, Carlson School of Mgmt L-114, In Person Term Based; Brenda Kayzar; 3 cr.

### 3900 Urban Studies Internship Seminar

(A-F or Audit; Prereq: Sr, internship placement, dept consent, instr consent)

56780 001 FWK, 13:25-15:20 M, Carlson School of Mgmt 1-122, In Person Term Based; 2 cr.

### 3955W Senior Paper Seminar

(A-F or Audit; Prereq: dept consentWI)  
47501 001 LEC, 10:00-12:00 F, Hubert H. Humphrey Center 30, In Person Term Based; Brenda Kayzar; 2 cr.

### 3993 Urban Studies Directed Study

(A-F or Audit; Prereq UrbS majors, instr consent, dept consent.)  
47505 001 IND, In Person Term Based; Paula Pentel; 1-3 cr.

## Urologic Surgery (UROL)

### 7200 Surgical Specialty: Urology

(P-N or Audit; )  
48040 010 FWK, In Person Term Based; 2-4 cr.  
48041 011 FWK, In Person Term Based; 2-4 cr.  
48042 012 FWK, In Person Term Based; 2-4 cr.  
48043 013 FWK, In Person Term Based; 2-4 cr.  
48044 014 FWK, In Person Term Based; 2-4 cr.  
48045 015 FWK, In Person Term Based; 2-4 cr.  
48046 016 FWK, In Person Term Based; 2-4 cr.  
48047 017 FWK, In Person Term Based; 2-4 cr.  
48048 018 FWK, In Person Term Based; 2-4 cr.  
48038 008 FWK, In Person Term Based; Hollie Marx; 2-4 cr.  
48039 009 FWK, In Person Term Based; Hollie Marx; 2-4 cr.

### 7252 Urological Conference

(No Grade Associated; )  
49929 001 LEC, In Person Term Based; 3 cr.

### 7253 Research in Urology

(No Grade Associated; )  
55456 001 LEC, In Person Term Based; 3 cr.

### 7400 Surgical Specialty: Urology Elective

(H-N or Audit; )  
52870 001 FWK, In Person Term Based; 2-4 cr.

### 7500 Advanced Urological Surgery

(H-N or Audit; Prereq: 7200 or course director approval)  
51708 001 ROT, In Person Term Based; 2-6 cr.

### 7503 Urologic Research

(H-N or Audit; )  
50294 001 IND, In Person Term Based; Hollie Marx; 1-15 cr.

### 7910 Urologic Surgery Medical Residency

(No Grade Associated; )  
56701 001 FWK, In Person Term Based; 6 cr.

### 7930 Urologic Surgery Medical Fellowship

(No Grade Associated; )  
56702 001 FWK, In Person Term Based; 6 cr.

### 8254 Urological Seminar

(Student Option; )  
49930 001 LEC, In Person Term Based; 2 cr.

## Veterinary & Biomedical Sci (VBS)

### 1001 Introduction to Biotechnology

(A-F or Audit; BIOL,TS)  
58809 002 LAB, 13:55-15:55 MW, , In Person Term Based; Pamela Skinner; 4 cr.  
58808 001 LEC, 12:50-13:40 MW, , In Person Term Based; Pamela Skinner; 4 cr.

### 2032 General Microbiology With Laboratory

(A-F only; Prereq: One semester each of college chemistry, biology)  
51093 003 LAB, 12:00-14:00 TTh, Veterinary Science 325, In Person Term Based; Tim Johnson; 5 cr.  
52170 004 LAB, 14:30-16:30 TTh, Veterinary Science 325, In Person Term Based; Tim Johnson; 5 cr.  
48159 001 LEC, 10:10-11:00 MW, Ruttan Hall B45, Partially Online; Tim Johnson; 5 cr.  
48160 002 LAB, 9:30-11:30 TTh, Veterinary Science 325, In Person Term Based; Tim Johnson; 5 cr.

### 2100 Companion Animal Anatomy

(A-F only; Prereq: General Biology (e.g., BIOL 1009) is recommended)  
58172 001 LEC, 10:40-11:30 MW, , In Person Term Based; Christina Clarkson; 3 cr.  
58173 002 LAB, 13:55-15:50 F, Animal Science / Vet Med 40, In Person Term Based; Christina Clarkson; 3 cr.



## Veterinary Clinical Sciences (VCS)

### 4606 Small Animal Management

(A-F or Audit; )  
51697 001 LEC, 8:30- 9:20 MWF, , In Person Term Based; Joe Maple; 3 cr.

## Veterinary Medicine (CVM)

### 6000 Gopher Orientation and Leadership Experience

(S-N only; Prereq: Admission to veterinary program)  
61054 001 DIS, 10:00-12:00 T, , 10:00-14:00 F, , 13:00-15:00 M, , In Person Term Based; Julie Churchill; 2 cr.

### 6001 Opportunities in International and Cultural Immersion

(S-N only; )  
45435 001 LEC, In Person Term Based; Dominic Travis; 0.5 cr.

### 6027 Large Animal Practicum: Year 3

(S-N only; Prereq:3rd DVM or [instr consent, college consent])  
45267 001 FWK, In Person Term Based; Ava Trent; 1 cr.

### 6028 Large Animal Hospital Practicum: Year 4

(S-N or Audit; Prereq: All 4th year students in Food Animal, Equine, Mixed tracks, as well as affiliate students.)  
45226 001 FWK, In Person Term Based; Ava Trent; 4 cr.

### 6030 Veterinary and Community Public Health

(A-F or Audit; Prereq: 6201, 6202, 6220)  
45196 001 LEC, 8:00- 9:50 F, , 10:00-11:50 MWF, , In Person Term Based; Anna Jones; 2 cr.

### 6031 International Animal Diseases

(S-N or Audit; Prereq: DVM, [CVM grad student or instr consent])  
45201 001 LEC, 8:00-11:50 F, , In Person Term Based; Scott Wells; 1 cr.  
45476 002 LEC, 8:00-11:00 Th, , 13:00-14:00 Th, , In Person Term Based; Srinand Sreevatsan; 1 cr.

### 6042 Practice Management/Law and Ethics

(S-N or Audit; Prereq: DVM or instr consent)  
45197 001 LEC, 13:00-16:50 MTWThF, , 8:00-11:50 MTWThF, , In Person Term Based; Jim Waddell; 2 cr.

### 6105 Small Animal Ultrasonography

(S-N or Audit; Prereq: [6100, 6101, 6102, 6103, 3rd yr DVM student] or instr consent)  
45274 001 LEC, In Person Term Based; Kari Anderson; 1 cr.

### 6136 Small Animal Nutrition: Advanced Block

(Student Option; Prereq: 3rd yr DVM or instr consent)  
45212 001 LEC, 8:00- 9:50 MTWThF, , 8:00-11:50 MTW, , In Person Term Based; Julie Churchill; 2.5 cr.

### 6137 Small Animal Clinical Nutrition

(A-F only; Prereq: 3rd or 4th yr DVM or instr consent)  
59112 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Julie Churchill; 2 cr.  
45394 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Julie Churchill; 2 cr.  
45444 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Julie Churchill; 2 cr.

### 6306 Small Animal Clinical Skills:

**Advanced Block**  
(S-N or Audit; Prereq: [3rd or 4th] yr DVM or instr consent)  
45213 001 LEC, In Person Term Based; P Armstrong; 1 cr.

### 6308 Lab Animal Medicine

(A-F only; )  
69056 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Angela Craig; 2 cr.

### 6312 Veterinary Dental Rotation (SDen)

(A-F only; Prereq: DVM 3rd or 4th yr student or instr consent)

45010 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Darlene Toedter; 2 cr.  
45622 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Darlene Toedter; 2 cr.  
45623 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Darlene Toedter; 2 cr.  
45624 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Darlene Toedter; 2 cr.

### 6404 Small Animal Dermatology: Advanced Block

(A-F or Audit; Prereq: [3rd or 4th] yr DVM or instr consent)  
45214 001 LEC, 12:00-12:50 T, , 12:00-13:50 MF, , In Person Term Based; Sheila Torres; 1 cr.

### 6424 Small Animal Orthopedic: Advanced Block

(A-F or Audit; Prereq: [3rd or 4th] yr DVM or instr consent; non-track students may audit lectures, but labs must be taken for grade)  
45478 002 LEC, 10:00-12:00 Th, , 13:00-17:00 MTW, , 8:00-10:00 Th, , In Person Term Based; Michael Conzemius; 1 cr.  
45215 001 LEC, 13:00-13:50 WThF, , 12:00-13:50 M, , 8:00- 9:50 M, , In Person Term Based; Lori Schultz; 1 cr.

### 6434 Critical Care: Advanced Block

(S-N or Audit; Prereq: [3rd or 4th] yr DVM or instr consent)  
45216 001 LEC, 8:00- 9:50 ThMW, Room TBA, 8:00-11:50 ThM, Room TBA, 10:00-11:50 T, Room TBA, In Person Term Based; Lisa Powell; 1 cr.

### 6436 Small Animal Cardiology: Advanced Block

(S-N or Audit; Prereq: [3rd or 4th] yr DVM or instr consent)  
45217 001 LEC, 10:00-11:50 TThF, Room TBA, In Person Term Based; Anthony Tobias; 0.5 cr.

### 6442 Animal Behavior Elective: Advanced Block

(S-N or Audit; Prereq: [3rd or 4th] yr DVM or instr consent)  
45218 001 LEC, 10:00-11:50 Th, Room TBA, 8:00- 9:50 T, Room TBA, In Person Term Based; Petra Mertens; 1 cr.

### 6461 A Clinician's Analysis of Urinalysis

(S-N only; Prereq: 3rd yr DVM or instr consent)  
45219 001 LEC, 14:00-15:50 MF, Room TBA, 13:00-14:50 MF, Room TBA, 15:00-16:50 M, Room TBA, In Person Term Based; Carl Osborne; 1 cr.  
45479 002 LEC, 10:00-12:00 WFM, , In Person Term Based; Carl Osborne; 1 cr.

### 6464 Small Animal Urinary System

**Disorders: Case Based Discussion**  
(S-N only; Prereq: [DVM 3rd or 4th yr] or instr consent)  
45225 001 LEC, 13:00-14:50 MF, Room TBA, 10:00-11:50 F, Room TBA, In Person Term Based; Kristy Lashbaugh; 1 cr.

### 6481 Obstetrics Lab

(S-N only; )  
45480 002 LAB, 13:00-17:00 ThFMT, , In Person Term Based; Ulrike Sorge; 1 cr.  
45222 001 LAB, 13:00-16:00 ThF, Room TBA, In Person Term Based; Anna Jones; 1 cr.

### 6494 Small Animal Anesthesia Advanced Block Core

(A-F only; Prereq: 3rd yr DVM or instr consent)  
45220 001 LEC, 8:00- 8:50 ThT, Room TBA, 10:00-10:50 T, Room TBA, In Person Term Based; Kristy Lashbaugh; 1 cr.

### 6497 Avian Medicine and Surgery:

**Advanced Block**  
(S-N only; )  
45221 001 LEC, 10:00-11:50 Th, Room TBA, 8:00- 9:50 TTh, Room TBA, 13:00-14:50 TW, Room TBA, In Person Term Based; Patrick Redig; 1 cr.

### 6500 Veterinary Public Health and Regulatory Medicine

(S-N only; Prereq: DVM 3rd or 4th yr or grad student or instr consent)  
45600 002 ROT, In Person Term Based; 1 cr.  
45278 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Larissa Minicucci; 1 cr.  
45255 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Larissa Minicucci; 1 cr.  
45256 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Larissa Minicucci; 1 cr.

### 6501 Advanced Veterinary Public Health:

**Current Topics**  
(S-N only; Prereq: DVM or MPH or grad student or instr consent)  
69130 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Larissa Minicucci; 1 cr.

### 6502 Necropsy

(S-N only; Prereq: DVM 3rd or 4th yr or instr consent)  
45593 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Arno Wuenschmann; 2 cr.  
45249 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45236 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45406 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45188 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45189 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45184 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45187 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45185 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.  
45186 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.

### 6503 Exotic Animal Necropsy Rotation

(A-F only; )  
45403 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Arno Wuenschmann; 2 cr.

### 6505 Topics

(S-N only; )  
45057 019 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45058 020 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45059 021 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45060 022 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45061 023 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45062 024 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45063 025 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45064 026 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
45065 027 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Gary Goldstein; 0-8 cr.  
61296 002 LEC, 10:00-12:00 W, , 13:00-15:00 T, , 8:00- 9:00 Th, , In Person Term Based; Joe Maple; 0-8 cr.  
45227 001 LEC, In Person Term Based; Gary Goldstein; 0-8 cr.

### 6506 Directed Studies in Large Animal Medicine (DistL)

(S-N or Audit; Prereq: DVM 4th yr or instr consent)  
60789 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
45310 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45311 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45313 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45315 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45317 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45314 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45316 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45312 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45428 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6507 Directed Studies in Small Animal Medicine (DistS)

(S-N or Audit; Prereq: DVM 4th yr or instr consent)  
45318 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45319 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45320 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
45321 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

45322 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 60792 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
 45323 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45324 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45325 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45429 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6508 Directed Studies: Pathobiology (DiStB)

**(S-N or Audit; Prereq: DVM 4th yr or instr consent)**  
 45326 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45327 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45328 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45329 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45330 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45331 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45332 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 60790 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
 45426 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45333 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6509 Directed Studies: Diagnostic Medicine (DistD)

**(S-N or Audit; Prereq: DVM 4th yr or instr consent)**  
 45308 025 ROT, 8:00-17:00 MTWThF, Room TBA, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45302 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45303 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45304 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45305 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45306 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45307 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45309 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 60791 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
 45427 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6510 MPH Project: PHP

**(S-N only; Prereq: DVM student or instr consent)**  
 45334 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45335 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45336 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45337 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45338 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45339 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45340 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45341 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45939 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.  
 45423 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 1-3 cr.

### 6512 Zoo and Wildlife Rounds

**(S-N or Audit; )**  
 59322 001 DIS, 18:00-20:00 W, , In Person Term Based; Arno Wuenschmann; 0.5 cr.  
 45611 002 DIS, 18:00-20:00 W, , In Person Term Based; Arno Wuenschmann; 0.5 cr.

### 6515 Externship (Extern)

**(S-N or Audit; Prereq: DVM 3rd or 4th yr or instr consent)**  
 60793 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.

45286 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45289 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45291 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45287 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45285 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45292 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45290 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45288 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45430 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6516 Field Experience in Public Health Practice

**(S-N only; Prereq: DVM student or instr consent)**  
 45240 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45241 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45242 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45244 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45265 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45243 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45245 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45246 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 45242 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.  
 60799 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Larissa Minicucci; 0.5-8 cr.

### 6520 Small Animal Theriogenology and Pediatrics

**(A-F only; )**  
 45635 019 ROT, In Person Term Based; 1 cr.  
 45637 027 ROT, In Person Term Based; 1 cr.  
 45636 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Margaret Root Kustritz; 1 cr.

### 6525 Rotation at Other Institution (RAOI)

**(Student Option; Prereq: DVM 4th yr or instr consent)**  
 45816 018 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
 45294 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45296 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45298 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45299 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45300 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 60794 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 1-2 cr.  
 45295 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45297 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45301 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.  
 45432 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 1-2 cr.

### 6528 Radiology Rotation at Other Institution

**(Student Option; Prereq: DVM 3rd or 4th year or instr consent)**  
 45921 018 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 2 cr.  
 45369 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45370 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45371 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45372 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45373 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45374 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.

45375 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 45376 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.  
 60795 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Laura Molgaard; 2 cr.  
 45431 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Laura Molgaard; 2 cr.

### 6530 Orientation to Clinical Rotations

**(S-N only; Prereq: 3rd yr DVM)**  
 45945 001 LEC, 9:00-11:00 Th, , 8:00-10:00 FThM, , 10:00-12:00 T, , 8:00-12:00 WF, , 15:00-17:00 Th, , 13:00-15:00 MT, , In Person Term Based; Liz LaFond; 1 cr.

### 6531 Biosecurity and Biocontainment for Food Animals

**(A-F only; )**  
 69039 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Montserrat Torremorell; 2 cr.

### 6532 Clinical Laboratory Medicine (Labs)

**(A-F only; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45591 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jed Overmann; 2 cr.

### 6560 Public Health Issues and Veterinary Medicine Opportunities

**(A-F only; )**  
 45612 002 LEC, 17:00-19:00 W, , In Person Term Based; Joni Scheffel; 1 cr.  
 59323 001 LEC, 17:00-19:00 W, , In Person Term Based; Joni Scheffel; 1 cr.

### 6601 Small Animal Internal Medicine: (SAM A)

**(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45595 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45415 027 ROT, 8:00-18:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45279 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45248 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45257 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45258 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45280 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45272 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45270 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45271 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.

### 6602 Small Animal Internal Medicine: (SAM B)

**(Student Option; Prereq: [6601, [DVM 3rd or 4th yr]] or instr consent)**  
 45596 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Polzin; 2 cr.  
 45417 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45223 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45237 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45268 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45192 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45193 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45194 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45191 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.  
 45195 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Polzin; 2 cr.

### 6605 Banfield Elective Clinical Rotation

**(A-F only; )**  
 45036 013 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45037 014 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45641 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.

45643 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45645 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45647 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45648 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45909 004 ROT, In Person Term Based; 2 cr.  
 45910 005 ROT, In Person Term Based; 2 cr.  
 46054 006 ROT, In Person Term Based; 2 cr.  
 46055 015 ROT, In Person Term Based; 2 cr.  
 45981 003 ROT, In Person Term Based; 2 cr.  
 45908 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45640 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45642 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45644 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45646 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; David Lee; 2 cr.  
 45029 001 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45030 007 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45031 008 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45032 009 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45033 010 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45034 011 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; David Lee; 2 cr.  
 45035 012 ROT, 8:00-17:00 WThFMT, No Room Required, In Person Term Based; David Lee; 2 cr.

### 6609 Emergency/Critical Care (ECC)

(A-F only; Prereq: Sr)

46056 028 ROT, In Person Term Based; 2 cr.  
 46057 029 ROT, In Person Term Based; 2 cr.  
 46058 030 ROT, In Person Term Based; 2 cr.  
 46059 031 ROT, In Person Term Based; 2 cr.  
 46060 032 ROT, In Person Term Based; 2 cr.  
 46061 033 ROT, In Person Term Based; 2 cr.  
 46062 034 ROT, In Person Term Based; 2 cr.  
 46063 035 ROT, In Person Term Based; 2 cr.  
 46086 036 ROT, In Person Term Based; 2 cr.  
 45004 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45582 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45005 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45003 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45001 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45006 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45007 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45008 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45009 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.  
 45002 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kelly Tart; 2 cr.

### 6610 Small Animal Dentistry and Oral

Surgery Elective

(A-F or Audit; )

45615 002 LEC, 10:00-12:00 ThTFW, , 8:00-10:00 F, , 15:00-17:00 F, , 13:00-16:00 TW, , 13:00-15:00 MThT, , In Person Term Based; Gary Goldstein; 1 cr.  
 59328 001 LEC, 10:00-12:00 TMMWTh, , 8:00-10:00 MW, , 10:00-11:00 Th, , 15:00-16:00 T, , 8:00-11:00 TW, , 15:00-17:00 M, , In Person Term Based; Gary Goldstein; 1 cr.

### 6630 Behavior

(Student Option; Prereq: DVM [3rd or 4th yr] or grad student or instr consent)

45469 028 ROT, In Person Term Based; 2 cr.  
 45470 029 ROT, In Person Term Based; 2 cr.  
 45284 019 ROT, In Person Term Based; 2 cr.  
 45170 020 ROT, In Person Term Based; 2 cr.  
 45457 021 ROT, In Person Term Based; 2 cr.  
 45458 025 ROT, In Person Term Based; 2 cr.  
 45459 026 ROT, In Person Term Based; 2 cr.  
 45171 027 ROT, In Person Term Based; 2 cr.  
 45841 014 ROT, In Person Term Based; 2 cr.  
 45748 018 ROT, In Person Term Based; 2 cr.  
 45990 015 ROT, In Person Term Based; 2 cr.

45991 016 ROT, In Person Term Based; 2 cr.  
 45992 017 ROT, In Person Term Based; 2 cr.

### 6632 Dermatology (Derm)

(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)

45706 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45708 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45710 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45711 006 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45131 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sheila Torres; 2 cr.  
 46046 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45704 001 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Sheila Torres; 2 cr.  
 45125 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sheila Torres; 2 cr.  
 45633 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sheila Torres; 2 cr.  
 45129 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sheila Torres; 2 cr.  
 45634 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sheila Torres; 2 cr.

### 6634 Ophthalmology

(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)

45588 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christine Lim; 2 cr.  
 45440 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45404 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45439 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45436 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45441 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45409 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45342 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45273 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.  
 45190 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christine Lim; 2 cr.

### 6636 Cardiology

(Student Option; Prereq: DVM 4th yr or CVM grad or instr consent)

46003 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46073 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46004 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46066 006 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46074 007 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46005 008 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46006 009 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46075 010 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45940 013 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45751 014 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45914 015 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45941 016 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45752 017 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45753 018 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45639 012 ROT, 8:00-16:50 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45958 001 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 46087 011 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45659 028 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45660 029 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45661 030 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.

45662 031 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45663 032 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45664 033 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45665 034 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45666 035 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Christopher Stauthammer; 2 cr.  
 45579 002 ROT, 8:00-16:50 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45398 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45080 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45081 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45076 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45077 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45079 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45078 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45082 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.  
 45083 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Christopher Stauthammer; 2 cr.

### 6644 General Practice

(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)

46038 003 ROT, In Person Term Based; 2 cr.  
 46039 004 ROT, In Person Term Based; 2 cr.  
 46040 005 ROT, In Person Term Based; 2 cr.  
 46041 006 ROT, In Person Term Based; 2 cr.  
 46042 007 ROT, In Person Term Based; 2 cr.  
 46043 008 ROT, In Person Term Based; 2 cr.  
 46044 009 ROT, In Person Term Based; 2 cr.  
 46045 010 ROT, In Person Term Based; 2 cr.  
 46083 011 ROT, In Person Term Based; 2 cr.  
 45107 012 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45690 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45108 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45109 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45110 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45111 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45112 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45583 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45115 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45113 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.  
 45114 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Susan Lowum; 2 cr.

### 6648 Advanced Clinical Oncology Rotation

(Student Option; Prereq: DVM 3rd or 4th yr or grad student or instr consent)

45070 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45580 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45066 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45068 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45069 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45071 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45067 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 61603 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45629 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.  
 45630 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Antonella Borgatti; 2 cr.

### 6651 Small Animal Ultrasound

(A-F only; Prereq: [3rd or 4th] yr DVM or instr consent)

69036 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 45023 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.

45024 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45025 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45026 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45027 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.

**6661 Neurology**

**(Student Option; Prereq: 3rd or 4th yr DVM or instr consent)**  
 45204 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45594 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45352 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45205 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45206 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45207 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45203 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45238 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45420 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.  
 45421 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Alistair Mc Vey; 2 cr.

**6662 Comparative Anesthesiology (Anes)**

**(A-F only; Prereq: DVM 3rd or 4th yr)**  
 59084 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45672 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45667 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45668 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45669 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45670 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45671 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45673 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45674 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.  
 45675 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Daniel Carvalho de Almeida; 2 cr.

**6663 SA Surgery**

**(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45740 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45738 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45732 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45733 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45734 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45735 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45737 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45739 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.  
 45587 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz Pluhar; 2 cr.

**6664 University of Minnesota: Spay and Neuter (UMSN)**

**(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45689 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 68758 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 45685 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 45687 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 45688 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 61601 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.  
 61602 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jonna Swanson; 2 cr.

**6665 Small Animal Physical Rehabilitation**

**(A-F only; )**  
 45532 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45550 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45533 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45551 006 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45534 007 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45552 008 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45535 009 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45553 010 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45900 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45901 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45344 014 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45362 015 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45345 016 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45363 017 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45346 018 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45364 028 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45565 011 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45410 029 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45597 002 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45899 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45915 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45916 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45917 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45902 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45918 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45951 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Liz LaFond; 2 cr.  
 45343 012 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.  
 45361 013 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Liz LaFond; 2 cr.

**6666 Small Animal Radiology (RAD)**

**(A-F only; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45018 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45014 019 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45016 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45017 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45019 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45020 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45015 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.

**6669 Radiology: Mixed Animal**

**(A-F only; Prereq: DVM 3rd or 4th yr or instr consent)**  
 46017 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 46089 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 46081 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 59097 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 45021 006 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45022 007 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kari Anderson; 2 cr.  
 45717 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.  
 45718 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kari Anderson; 2 cr.

**6690 Integrative Medicine**

**(S-N or Audit; Prereq: 2nd yr DVM student or instr consent)**

45451 020 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45452 021 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45453 022 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45454 023 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45455 025 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45456 026 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.  
 45614 001 LEC, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2.5 cr.

**6691 Veterinary Acupuncture (AcPunct)**

**(Student Option; Prereq: [6690, [yr 3 or 4 DVM]] or instr consent)**  
 60788 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Keum Hwa Choi; 2 cr.  
 45164 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Keum Hwa Choi; 2 cr.  
 45166 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Keum Hwa Choi; 2 cr.  
 45165 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Keum Hwa Choi; 2 cr.  
 45169 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Keum Hwa Choi; 2 cr.  
 45425 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Keum Hwa Choi; 2 cr.

**6711 Large Animal Medicine (LAM)**

**(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)**  
 45483 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45482 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45481 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45484 006 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45485 007 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45486 008 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45488 009 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45489 010 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45230 012 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45228 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45598 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45569 011 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45419 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45232 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45796 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Molly McCue; 2 cr.  
 45233 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45231 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45239 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45229 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.  
 45253 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Molly McCue; 2 cr.

**6712 Equine Ambulatory Rotation**

**(A-F only; )**  
 45348 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kerry Kuhle; 2 cr.  
 45349 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kerry Kuhle; 2 cr.  
 45592 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Kerry Kuhle; 2 cr.  
 45350 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kerry Kuhle; 2 cr.  
 45416 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Kerry Kuhle; 2 cr.

**6715 Large Animal Surgery and Lameness**

**(Student Option; Prereq: 3rd or 4th yr DVM student or instr consent)**  
 45492 003 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.

45493 004 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45145 012 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45723 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45146 020 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45494 005 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45499 006 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45495 007 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45496 008 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45498 010 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45150 024 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45148 022 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45147 021 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45149 023 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45497 009 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45570 011 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45151 025 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45152 026 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45153 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.  
 45586 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Ava Trent; 2 cr.

**6720 Problem Solving in Equine Medicine**  
 (A-F or Audit; Prereq: DVM 3rd yr or instr consent)  
 45234 001 LEC, In Person Term Based; 2 cr.

**6736 Equine Lameness and Podiatry**  
 (A-F only; Prereq: Intended for equine track or mixed track students)  
 45144 027 ROT, 8:00-16:50 MTWThF, No Room Required, In Person Term Based; Troy Trumble; 2 cr.

**6747 Equine Theriogenology**  
 (Student Option; )  
 45590 002 ROT, 8:00-16:50 MTWThF, , In Person Term Based; Scott Madill; 2 cr.  
 45405 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Scott Madill; 2 cr.

**6748 Equine Theriogenology Advanced (EThA)**  
 (Student Option; Prereq: DVM 3rd or 4th yr or instr consent)  
 45173 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Scott Madill; 2 cr.  
 45172 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Scott Madill; 2 cr.

**6753 Advanced Equine Elective II**  
 (A-F or Audit; Prereq: 6752)  
 45617 001 LEC, In Person Term Based; Christie Ward; 3.5 cr.

**6789 Fresh Dairy Doe and Newborn Goat Kid Management**  
 (A-F only; )  
 45359 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.  
 45562 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.  
 45179 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.  
 45561 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.  
 45438 022 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.

**6790 Advanced Small Ruminant Practice**  
 (A-F or Audit; Prereq: DVM 3rd or 4th yr or instr consent)  
 45283 001 LEC, In Person Term Based; Susan Mc Clanahan; 1.5 cr.

**6792 Small Ruminant Health and Production Rotation (SmRu)**  
 (Student Option; Prereq: DVM 3rd or 4th yr or instr consent)

45631 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Ann Gopen; 2 cr.  
 45407 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.  
 45408 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Cynthia Wolf; 2 cr.

**6797 Beef Production Systems Medicine: Cow-Calf (BPSCC)**  
 (A-F only; Prereq: DVM 3rd or 4th yr or instr consent)  
 45178 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Timothy Goldsmith; 2 cr.

**6803 Advanced Bovine Practice: Laboratory Block**  
 (S-N only; Prereq: [6802, [DVM 3rd or 4th yr]] or instr consent)  
 45211 001 LAB, 13:00-16:00 M, Room TBA, 11:00-17:00 MTWThF, Room TBA, 13:00-17:00 F, Room TBA, 12:00-20:00 W, Room TBA, In Person Term Based; John Fetrow; 1 cr.

**6804 Bovine Surgery**  
 (Student Option; Prereq: DVM 3rd or 4th yr or instr consent)  
 45632 019 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Erin Malone; 2 cr.

**6805 Food Animal and Exotic Animal Anesthesia**  
 (S-N or Audit; Prereq: 5321 or equiv)  
 45224 001 LEC, 8:00-9:50 TF, Room TBA, In Person Term Based; Lynelle Graham; 0.5 cr.

**6806 Food Animal Disease and Diagnostics**  
 (Student Option; Prereq: 3rd or 4th yr DVM student or instr consent)  
 45028 027 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Jeremy Schefers; 2 cr.

**6810 Food Animal Basics**  
 (S-N only; Prereq: Successful completion of first 2 years of DVM curriculum)  
 59330 001 LEC, 13:00-15:00 MTW, , 15:00-17:00 WM, , 10:00-12:00 T, , In Person Term Based; Peter Davies; 2 cr.  
 45618 002 LEC, 10:00-12:00 WFTh, , 8:00-10:00 Th, , 13:00-15:00 MThT, , In Person Term Based; Peter Davies; 2 cr.

**6811 Dairy Theriogenology and Lameness (DT&L)**  
 (Student Option; Prereq: DVM 3rd or 4th yr or instr consent)  
 45367 021 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Gerard Cramer; 2 cr.

**6821 Dairy on Farm Clinical**  
 (A-F only; Prereq: 3rd or 4th yr DVM student or instr consent)  
 45264 024 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; John Fetrow; 2 cr.  
 45448 022 ROT, 8:00-16:50 MTWThF, No Room Required, In Person Term Based; John Fetrow; 2 cr.  
 45263 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; John Fetrow; 2 cr.

**6827 Dairy Production Medicine 2**  
 (Student Option; Prereq: 6818, 6826, [3rd or 4th yr DVM or instr consent])  
 45412 022 ROT, In Person Term Based; 2 cr.

**6831 Overview of Dairy Production Medicine**  
 (A-F only; )  
 45443 023 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Sandra Godden; 2 cr.

**6841 Swine Behavior**  
 (Student Option; Prereq: [3rd or 4th yr] DVM or instr consent)  
 45202 001 LEC, 12:00-12:50 TFM, Room TBA, In Person Term Based; Carlos Pijoan; 0.5 cr.

**6865 Introduction to Swine Production Medicine**  
 (A-F only; Prereq: DVM student or instr consent)  
 45613 002 LEC, 8:00-10:00 T, , In Person Term Based; Montserrat Torremorell; 1 cr.  
 59324 001 LEC, 10:00-12:00 ThWTF, , 8:00-10:00 T, , In Person Term Based; Montserrat Torremorell; 1 cr.

**6882 Companion Birds (ComB)**

(Student Option; Prereq: DVM 3rd or 4th yr or instr consent)  
 45141 020 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Patrick Redig; 2 cr.  
 45575 026 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Patrick Redig; 2 cr.

**6883 Raptor**  
 (Student Option; Prereq: 6497, DVM 3rd or 4th yr, instr consent)  
 59103 002 ROT, 8:00-17:00 MTWThF, , In Person Term Based; Michelle Willette; 2 cr.  
 45449 025 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Michelle Willette; 2 cr.  
 45585 027 ROT, 8:00-17:00 MTWThF, No Room Required, In Person Term Based; Michelle Willette; 2 cr.

**6906 Critical Scientific Reading**  
 (S-N only; )  
 45619 002 LEC, 9:00-10:00 Th, , 9:00-11:00 Th, , 10:00-11:00 Th, , In Person Term Based; Robert Washabau, VMD, PhD; 1 cr.  
 59334 001 LEC, 9:00-11:00 Th, , 9:00-10:00 Th, , In Person Term Based; Robert Washabau, VMD, PhD; 1 cr.

**6907 Professional Development II**  
 (S-N only; )  
 45602 002 LEC, 10:00-11:00 ThM, , 13:00-14:00 MW, , 13:00-17:00 MF, , 9:00-10:00 Th, , 15:00-16:00 M, , 11:00-12:00 Th, , In Person Term Based; Andre Nault; 1.5 cr.  
 59313 001 LEC, 13:00-15:00 W, , 13:00-14:00 WM, , 14:00-15:00 M, , 9:00-10:00 Th, , 12:00-18:00 FTh, , 11:00-12:00 Th, , 13:00-18:00 F, , 10:00-11:00 Th, , In Person Term Based; Andre Nault; 1.5 cr.

**6908 Anatomy II**  
 (A-F only; )  
 59314 001 LEC, 13:00-14:00 T, , 14:00-17:00 TThW, , 13:30-16:00 W, , 13:00-13:30 W, , 13:00-15:00 MT, , 11:00-12:00 Th, , 14:30-17:00 TW, , 13:00-16:00 WT, , 13:30-16:30 W, , 8:00-12:00 M, , 13:00-14:30 TW, , In Person Term Based; Christina Clarkson; 3 cr.  
 45603 002 LEC, 13:00-14:30 TWM, , 14:30-17:00 TW, , 13:00-13:30 W, , 13:30-16:00 W, , 8:30-16:00 M, , 14:00-17:00 ThT, , 13:00-15:00 M, , 14:00-14:30 T, , 13:00-16:00 WM, , 13:00-14:00 ThWMT, , In Person Term Based; Christina Clarkson; 3 cr.

**6909 Clinical Skills II**  
 (S-N only; )  
 45604 002 LEC, 13:00-14:00 MW, , 13:00-15:00 TFM, , 13:00-17:00 ThFMTW, , 8:00-9:00 M, , 16:00-17:00 WTh, , 8:00-10:00 TF, , 15:00-17:00 F, , In Person Term Based; Gary Goldstein; 1 cr.  
 59315 001 LEC, 13:00-14:00 M, , 13:00-15:00 TM, , 13:00-17:00 ThFM, , 16:00-16:50 Th, , 8:00-12:00 F, , 9:00-11:00 Th, , 12:00-18:00 F, , 9:00-10:00 Th, , 8:00-10:00 T, , In Person Term Based; Gary Goldstein; 1 cr.

**6910 Physiology II**  
 (A-F only; )  
 45605 002 LEC, 8:00-10:00 MWFT, , 9:00-10:00 M, , 10:00-12:00 FWM, , In Person Term Based; Robert Washabau, VMD, PhD; 5 cr.  
 59316 001 LEC, 8:00-10:00 MWFT, , 9:00-11:00 W, , 10:00-12:00 FM, , In Person Term Based; Robert Washabau, VMD, PhD; 5 cr.

**6911 Immunology**  
 (A-F only; )  
 59317 001 LEC, 8:00-10:00 W, , 10:00-12:00 MFWTh, , In Person Term Based; Mark Rutherford; 2 cr.  
 45606 002 LEC, 10:00-12:00 MWFT, , 8:00-10:00 FW, , 9:00-10:00 F, , In Person Term Based; Mark Rutherford; 2 cr.

**6912 Basic Pathology**  
 (A-F only; )  
 45607 002 LEC, 13:00-14:00 M, , 13:00-15:00 ThF, , 13:00-16:00 TTh, , 10:00-12:00 WM, , 13:00-17:00 Th, , 13:00-16:30 T, , 8:00-10:00 WT, , 10:00-10:50 W, , 15:00-17:00 M, , 11:00-11:50 Th, , In Person Term Based; Timothy O'Brien; 2 cr.  
 59318 001 LEC, 13:00-14:00 M, , 13:00-16:00 MTFTh, , 10:00-12:00 MW, , 9:00-11:00 TTh, , 13:00-15:00 FM, , 8:00-10:00 T, , 11:00-12:00 Th, , In Person Term Based; Timothy O'Brien; 2 cr.

**6913 Agents of Disease I**  
 (A-F only; )  
 45608 002 LEC, 10:00-12:00 TThF, , 9:00-10:00 Th, , 8:00-10:00 TF, , 10:00-11:00 Th, , In Person Term Based; Thomas Molitor; 4 cr.

59319 001 LEC, 10:00-12:00 TWThMF, 11:00-12:00 Th, 8:00-10:00 MF, 9:00-10:00 ThT, In Person Term Based; Thomas Molitor; 4 cr.

#### 6914 Preventive Medicine

(A-F only;)  
45609 002 LEC, 10:00-16:00 M, 10:00-12:00 FMW, 9:00-11:00 M, 13:00-16:00 ThTF, 14:00-17:00 T, In Person Term Based; Margaret Root Kustritz; 4 cr.  
59320 001 LEC, 14:00-17:00 M, 10:00-12:00 MWFThT, 9:00-11:00 F, 13:00-15:00 MW, 13:00-17:00 Th, 15:00-17:00 T, In Person Term Based; Margaret Root Kustritz; 4 cr.

#### 6926 Small Animal Medicine II

(A-F only;)  
61092 001 LEC, 10:00-12:00 MWFThT, 11:00-12:00 ThF, 8:00-9:00 M, 15:00-17:00 W, 8:00-11:00 TWTh, 9:00-11:00 M, 9:00-12:00 MTW, In Person Term Based; David Polzin; 5 cr.

#### 6927 Small Animal Surgery I

(A-F only;)  
61117 001 LEC, 8:00-10:00 WFTThM, 8:00-11:00 ThF, 8:00-9:00 T, 8:00-17:00 TW, 9:00-12:00 ThTF, In Person Term Based; Michael Conzemius; 3 cr.

#### 6928 Large Animal Medicine I

(A-F only;)  
61120 001 LEC, 13:00-16:00 TThW, 13:00-15:00 ThTMFW, 8:00-10:00 MT, 15:00-17:00 WThF, 15:00-15:50 W, 15:00-16:00 TW, In Person Term Based; Christie Ward; 4 cr.

#### 6929 Large Animal Surgery I

(A-F only;)  
61127 001 LEC, 15:00-17:00 TWFTTh, 13:00-16:00 TWF, 16:00-16:50 W, 8:00-9:00 Th, 15:00-15:50 F, 9:00-11:00 Th, 8:00-10:00 T, 13:00-15:00 Th, In Person Term Based; Ava Trent; 2 cr.

#### 6934 Selected Topics in Zoo Animal Medicine

(A-F only; Prereq: [DVM 1st or 2nd yr] or instr consent)  
45235 001 LEC, 16:00-17:59 T, Room TBA, 13:00-14:59 T, Room TBA, 15:00-16:49 T, Room TBA, 15:00-16:59 M, Room TBA, In Person Term Based; Ava Trent; 2 cr.  
45487 002 LEC, 13:00-15:00 WTThF, 13:00-17:00 F, 15:00-17:00 Th, In Person Term Based; Ava Trent; 2 cr.

#### 6935 Veterinary Imaging I

(A-F only;)  
61094 001 LEC, 10:00-12:00 TThWM, 8:00-11:00 ThF, 8:00-9:00 ThW, 13:00-16:00 T, 11:00-12:00 FTh, 8:00-12:00 Th, 9:00-12:00 ThTMW, In Person Term Based; Kari Anderson; 3 cr.

#### 6937 Pharmacology II

(A-F only;)  
61089 001 LEC, 13:00-15:00 MWFThT, In Person Term Based; David Brown; 4 cr.

#### 6938 Professional Development III

(S-N only;)  
61131 001 LEC, 8:00-10:00 ThWM, 10:00-12:00 TFW, 15:00-17:00 ThW, In Person Term Based; Jeffrey Todd; 1 cr.

#### 6939 Non-Traditional Pet Core

(A-F only;)  
61133 001 LEC, In Person Term Based; Patrick Redig; 1 cr.

#### 6941 Clinical Skills IV

(S-N only;)  
61134 001 LEC, 13:00-17:00 FTThW, 8:00-10:00 WTh, 8:00-17:00 TW, 8:00-12:00 TTh, In Person Term Based; Anna Firshman; 2 cr.

#### 6942 Veterinary Clinical Pathology II

(A-F only;)  
61097 001 LEC, 9:00-10:00 MF, 8:00-10:00 TMFW, 17:00-18:00 Th, 8:00-12:00 F, 10:00-12:00 M, 8:00-9:00 MTh, In Person Term Based; Leslie Sharkey; 3 cr.

#### 6943 Avian Core

(A-F only;)  
61107 001 LEC, 8:00-17:00 MTWThF, In Person Term Based; Patrick Redig; 1 cr.

#### 5080 Problems in Veterinary Epidemiology and Public Health

(A-F or Audit;)  
48346 001 IND, In Person Term Based; Jeff Bender; 1-3 cr.

#### 5181 Spatial Analysis in Infectious Disease Epidemiology

(Student Option No Audit; Prereq: Intro to epidemiology, statistics.)  
57936 001 LEC, In Person Term Based; Randall Singer; 3 cr.

#### 5196 Dairy Production Medicine

(A-F only; Prereq: DVM degree, instr consent)  
60565 001 LEC, In Person Term Based; John Fetrow; 4 cr.

#### 5232 Comparative Clinical Veterinary Dermatologic Pathology

(S-N only; Prereq: DVM degree or foreign equiv)  
53808 001 IND, In Person Term Based; Sheila Torres; 1 cr.

#### 5243 Advanced Small Animal Pathobiology IV

(A-F only; Prereq: CVM grad student, [DVM or foreign equiv] degree.)  
67451 001 LEC, In Person Term Based; Lisa Hubinger; 1 cr.

#### 5295 Problems in Large Animal Clinical Medicine/Surgery and Theriogenology

(A-F or Audit; Prereq: VMed grad student, possess DVM)  
50327 001 LEC, 8:00-9:00 Th, Veterinary Medical Center 225K, In Person Term Based; Stephanie Valberg; 1 cr.

#### 5310 Topics in Veterinary Clinical Pathology

(S-N only; Prereq: Grad student in CVM)  
53321 001 LEC, 8:00-9:00 F, Vet Diagnostic Lab 280, In Person Term Based; Jed Overmann; 1 cr.

#### 5319 Veterinary Gross Pathology

(S-N only; Prereq: Grad student in CMB or [VMED, [DVM degree or foreign equivalent], college consent])  
67452 001 LEC, In Person Term Based; Arno Wuenschmann; 1 cr.

#### 5330 Veterinary Descriptive Histopathology

(Student Option; Prereq: Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent)  
67453 001 DIS, In Person Term Based; Anibal Armien; 1 cr.

#### 5410 Scientific Writing and Speaking

(A-F only; Prereq: Grad student in health sciences)  
67534 001 LEC, In Person Term Based; Lisa Hubinger; 2 cr.

#### 5621 Principles of Veterinary

Anesthesiology  
(A-F only; Prereq: VMed grad student, [DVM degree or foreign equiv], instr consent)  
52793 001 LEC, In Person Term Based; Lynelle Graham; 2 cr.

#### 5670 Bovine Surgery Practicum

(S-N only; Prereq: [VMed grad student, [DVM or equiv foreign degree]] or instr consent)  
52792 001 LEC, 8:00-16:50, No Room Required, In Person Term Based; Erin Malone; 2 cr.

#### 5910 Grant Writing: What Makes a Winning Proposal?

(Student Option;)  
60576 001 LEC, In Person Term Based; Mark Rutherford; 2 cr.

#### 5920 Food Defense: Prepare, Respond,

Recover  
(A-F only; Prereq: Grad or professional student or instr consent)  
60581 001 DIS, In Person Term Based; Amy Kircher; 3 cr.

#### 5921 Seminar in Food Protection and

Defense  
(Student Option;)  
67537 001 LEC, 12:30-14:30 F, In Person Term Based; Amy Kircher; 1 cr.

#### 5998 Leadership to Address Global Grand Challenges

(Student Option No Audit; Prereq: Grad or professional student)

59562 001 LEC, 8:00-17:00 MTWTh, Hubert H. Humphrey Center 35, 8:00-16:00 F, Blegen Hall 235, In Person Term Based; Meets With: 001 PA 5190; Laura Bloomberg; 1.5 cr.

#### 8090 Epidemiology of Zoonoses and Diseases Common to Animals and Humans

(A-F or Audit; Prereq: Epidemiology and infectious disease course or instr consent)  
60582 001 LEC, In Person Term Based; Jeff Bender; 3 cr.

#### 8192 Dairy Health Management: Critical Thinking

(S-N only;)  
67546 001 DIS, In Person Term Based; Sandra Godden; 1 cr.

#### 8193 Welfare of Farmed Animals

(S-N only;)  
67547 001 DIS, In Person Term Based; Lisa Hubinger; 1 cr.

#### 8220 Advanced Nephrology/Urology Clinics

(Student Option; Prereq: instr consent)  
48304 001 LEC, In Person Term Based; David Polzin; 1-3 cr.

#### 8230 Medical Conference

(Student Option; Prereq: instr consent)  
48305 001 LEC, 8:00-8:50 Th, No Room Required, In Person Term Based; Jody Lulich; 1 cr.

#### 8292 Journal Club: Large Animal Internal Medicine

(A-F or Audit; Prereq: instr consent)  
51658 001 IND, 8:00-9:00 T, Veterinary Medical Center A217, In Person Term Based; Christie Ward; 1 cr.

#### 8293 Advanced Studies in Nephrology and Urology

(A-F or Audit; Prereq: instr consent)  
48308 001 DIS, In Person Term Based; David Polzin; 1-3 cr.

#### 8333 FTE: Master's

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49173 001 IND, In Person Term Based; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49264 001 IND, In Person Term Based; 1 cr.

#### 8492 Seminar: Infectious Diseases and Swine Medicine

(Student Option;)  
48317 001 LEC, 15:00-15:50 F, Animal Science / Vet Med 385J, In Person Term Based; Montserrat Torremorell; 1 cr.

#### 8550 Veterinary Medicine Seminar

(S-N only; Prereq: Grad student)  
60589 002 LEC, In Person Term Based; Lisa Hubinger; 1 cr.  
57935 001 LEC, 9:00-9:50 F, 12:00-13:00 Th, In Person Term Based; Meets With: 001 CMB 8550; Lisa Hubinger; 1 cr.

#### 8592 Infectious Disease Journals: Critical Thinking

(A-F only;)  
67568 001 DIS, In Person Term Based; Montserrat Torremorell; 1 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49368 001 IND, In Person Term Based; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49500 001 IND, In Person Term Based; 1-18 cr.

#### 8793 Seminar: Veterinary Anesthesiology

(A-F or Audit; Prereq: [CVM 6321 or equiv], DVM degree)  
48312 001 LEC, In Person Term Based; Lynelle Graham; 1-2 cr.

### Veterinary Medicine, Graduate (VMED)

**8796 Avian Anesthesia and Orthopedic Surgery**

(A-F or Audit; Prereq: courses in vet anesthesia, vet small animal orthopedics)  
53809 001 LAB, In Person Term Based; Patrick Redig; 1-3 cr.

**8888 Thesis Credit: Doctoral**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
49572 001 IND, In Person Term Based; 1-24 cr.

**Veterinary Population Medicine (VPM)****1550 Introduction to the horse including care, handling, and recognizing behaviors**

(Student Option; )  
58005 001 LEC, Primarily Online; Stephanie Valberg; 1 cr.

**1560 Introduction to Horseback Riding and Horse Health**

(Student Option; )  
59124 004 LEC, 9:35-12:30 Th, Equine Ctr.186 Nutrena Conf Rm, In Person Term Based; Kelly Vallandingham; 3 cr.  
59121 001 LEC, 9:35-12:30 T, Equine Ctr.186 Nutrena Conf Rm, In Person Term Based; Kelly Vallandingham; 3 cr.  
59123 003 LEC, 14:00-16:55 W, Equine Ctr.186 Nutrena Conf Rm, In Person Term Based; Kelly Vallandingham; 3 cr.  
59122 002 LEC, 14:00-16:55 T, Equine Ctr.186 Nutrena Conf Rm, In Person Term Based; Kelly Vallandingham; 3 cr.

**1905 Freshman Seminar**

(A-F only; )  
69120 002 LEC, 10:10-11:00 MW, , In Person Term Based; Ashok Singh; 2-3 cr.  
69121 003 LEC, 18:15-19:45 M, , In Person Term Based; Ashok Singh; 2-3 cr.  
60012 001 LEC, 9:05- 9:55 MW, Bruininks Hall 420A, In Person Term Based; Ashok Singh; 2-3 cr.

**3101 Animal Toxicology and the Environment**

(A-F only; )  
58546 001 LEC, 9:05-11:00 T, Bruininks Hall 530A, In Person Term Based; Ashok Singh; 3 cr.

**3550 Introduction to Equine Exercise Physiology**

(A-F only; Prereq: Students must have successfully completed a physiology or anatomy course prior to taking this course. VPM 1550 or ANSC 2055 plus ANSC 3301 or BIOL 3211)  
67360 001 LEC, 9:35-11:30 W, Equine Ctr.186 Nutrena Conf Rm, In Person Term Based; Kelly Vallandingham; 2 cr.

**3700 Equine Reproduction and Breeding Management**

(A-F only; Prereq: AnSc 3305 recommended)  
60939 001 LEC, 13:00-16:00 W, Animal Science / Vet Med 385J, In Person Term Based; Kerry Kuhle; 2 cr.

**4131 Immunology**

(Student Option; )  
55144 001 LEC, 18:15-19:45 TTh, Bruininks Hall 330, In Person Term Based; Thomas Molitor; 3 cr.

**Vienna Executive MBA (VMBA)****5701 Data Analysis and Decision Making**

(A-F or Audit; )  
55544 001 LEC, In Person Term Based; Deirdre Opp; 4 cr.

**5704 Managing People and Organizations**

(A-F or Audit; )  
53542 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**5709 Info Tech Mgmt**

(A-F or Audit; )  
49829 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**5710 Advanced Financial Management for Global Markets**

(A-F or Audit; )  
54823 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**5711 Managing Globalization (Guangzhou)**

(A-F or Audit; )  
54822 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**5712 Strategies for a Global Company: an Integrative Perspective**

(A-F or Audit; )  
49830 001 LEC, Study Abroad; Deirdre Opp; 6 cr.

**5713 Negotiations and Conflict Management**

(A-F only; )  
54824 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**5714 Financial Accounting**

(A-F or Audit; )  
54825 001 LEC, Study Abroad; Deirdre Opp; 4 cr.

**Water Resources Science (WRS)****5101 Water Policy**

(Student Option; Prereq: Grad student or instr consent)  
51555 001 LEC, 16:00-17:15 TTh, Blegen Hall 145, In Person Term Based; Meets With: 001 PA 5723; 3 cr.  
55832 002 LEC, In Person Term Based; Deborah Swackhamer; 3 cr.

**8050 Special Topics in Water Resources Science**

(A-F or Audit; )  
49785 001 DIS, In Person Term Based; ; 1-3 cr.

**8060 Directed Studies in Water Resources Science**

(A-F or Audit; Prereq: instr consent)  
48832 001 IND, In Person Term Based; 1-3 cr.

**8095 Plan B Project**

(S-N or Audit; )  
48833 001 IND, In Person Term Based; 3 cr.

**8100 Interdisciplinary Seminar in Water Resources**

(Student Option; )  
49537 001 LEC, 15:00-15:50 F, Borlaug Hall 375, In Person Term Based; D Mulla; 0.5-3 cr.

**8333 FTE: Master's**

(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
49175 001 IND, In Person Term Based; 1 cr.

**8444 FTE: Doctoral**

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
49266 001 IND, In Person Term Based; 1 cr.

**8581 Research and Professional Ethics in Water Resources and Environmental Science**

(S-N or Audit; Prereq: [Environmental engineering or water resources science] grad student or instr consent)  
52693 001 LEC, 15:00-16:15 M, Ruttan Hall B36, In Person Term Based; Raymond Newman; 0.5 cr.

**8666 Doctoral Pre-Thesis Credits**

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
49370 001 IND, In Person Term Based; 1-6 cr.

**8777 Thesis Credits: Master's**

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
49501 001 IND, In Person Term Based; 1-18 cr.

**Writing Studies (WRIT)****1201 Writing Studio**

(A-F only; Prereq: Placement in Writ 1201)  
68912 703 LEC, In Person Term Based; Claire Scroggins; 4 cr.  
68913 704 LEC, In Person Term Based; Daniel Norby; 4 cr.

68910 701 LEC, In Person Term Based; Daniel Norby; 4 cr.  
69128 706 LEC, In Person Term Based; Erin Vorpah; 4 cr.  
68909 700 LEC, In Person Term Based; James Hagg; 4 cr.  
68911 702 LEC, In Person Term Based; Kristine Earsley; 4 cr.  
68914 705 LEC, In Person Term Based; Kristine Earsley; 4 cr.

**1301 University Writing**

(A-F only; Prereq: Placement in Writ 1301)  
57803 067 DIS, 13:00-14:15 TTh, Lind Hall 302, In Person Term Based; 4 cr.  
60077 053 DIS, 8:15- 9:30 TTh, Appleby Hall 223, In Person Term Based; 4 cr.  
60078 060 DIS, 9:45-11:00 TTh, Appleby Hall 223, In Person Term Based; 4 cr.  
60073 040 DIS, 12:20-13:10 MWF, Lind Hall 302, In Person Term Based; 4 cr.  
60074 045 DIS, 13:25-14:15 MWF, Lind Hall 302, In Person Term Based; 4 cr.  
60075 049 DIS, 15:35-16:25 MWF, Lind Hall 325, In Person Term Based; 4 cr.  
58130 054 DIS, 8:15- 9:30 TTh, Lind Hall 340, In Person Term Based; 4 cr.  
60076 050 DIS, 15:35-17:30 MWF, Nicholson Hall 115, In Person Term Based; 4 cr.  
57709 008 DIS, 9:45-11:00 TTh, Lind Hall 203, In Person Term Based; 4 cr.  
59521 001 DIS, 8:00- 8:50 MWF, Lind Hall 320, In Person Term Based; 4 cr.  
59523 010 DIS, 13:00-14:15 TTh, Nicholson Hall 335, In Person Term Based; 4 cr.  
59522 007 DIS, 8:15- 9:30 TTh, Nicholson Hall 345, In Person Term Based; 4 cr.  
54195 034 DIS, 11:15-12:05 MWF, Lind Hall 315, In Person Term Based; 4 cr.  
54235 074 DIS, 16:00-17:15 TTh, Lind Hall 303, In Person Term Based; 4 cr.  
54207 048 DIS, 14:30-15:20 MWF, Lind Hall 315, In Person Term Based; 4 cr.  
54183 025 DIS, 9:05- 9:55 MWF, Lind Hall 320, In Person Term Based; 4 cr.  
54232 071 DIS, 14:30-15:45 TTh, Lind Hall 340, In Person Term Based; 4 cr.  
54197 036 DIS, 12:20-13:10 MWF, Ford Hall B60, In Person Term Based; 4 cr.  
54198 037 DIS, 12:20-13:10 MWF, Lind Hall 229, In Person Term Based; 4 cr.  
54180 019 DIS, 8:00- 8:50 MWF, Lind Hall 303, In Person Term Based; 4 cr.  
54205 046 DIS, 14:30-15:20 MWF, Lind Hall 325, In Person Term Based; 4 cr.  
54233 072 DIS, 14:30-15:45 TTh, Lind Hall 325, In Person Term Based; 4 cr.  
54204 044 DIS, 13:25-14:15 MWF, Peik Hall 165, In Person Term Based; 4 cr.  
54199 038 DIS, 12:20-13:10 MWF, Lind Hall 203, In Person Term Based; 4 cr.  
54200 039 DIS, 12:20-13:10 MWF, Lind Hall 217, In Person Term Based; 4 cr.  
54209 051 DIS, 16:00-17:15 MW, Lind Hall 320, In Person Term Based; 4 cr.  
54196 035 DIS, 11:15-12:05 MWF, Lind Hall 303, In Person Term Based; 4 cr.  
54212 056 DIS, 8:15- 9:30 TTh, Lind Hall 320, In Person Term Based; 4 cr.  
54228 068 DIS, 14:30-15:45 TTh, Lind Hall 217, In Person Term Based; 4 cr.  
54223 063 DIS, 11:15-12:30 TTh, Lind Hall 340, In Person Term Based; 4 cr.  
54193 033 DIS, 11:15-12:05 MWF, Lind Hall 320, In Person Term Based; 4 cr.  
54192 032 DIS, 11:15-12:05 MWF, Lind Hall 325, In Person Term Based; 4 cr.  
54217 021 DIS, 8:15- 9:30 MW, Lind Hall 217, In Person Term Based; 4 cr.  
54178 017 DIS, 8:00- 8:50 MWF, Lind Hall 315, In Person Term Based; 4 cr.  
54225 042 DIS, 13:00-14:15 MW, Lind Hall 320, In Person Term Based; 4 cr.  
54213 020 DIS, 8:15- 9:30 MW, Akerman Hall 227, In Person Term Based; 4 cr.  
54226 065 DIS, 13:00-14:15 TTh, Lind Hall 217, In Person Term Based; 4 cr.  
54188 026 DIS, 9:05- 9:55 MWF, Lind Hall 315, In Person Term Based; 4 cr.  
54190 030 DIS, 10:10-11:00 MWF, Lind Hall 315, In Person Term Based; 4 cr.  
54187 028 DIS, 10:10-11:00 MWF, Lind Hall 325, In Person Term Based; 4 cr.  
54231 070 DIS, 14:30-15:45 TTh, Appleby Hall 223, In Person Term Based; 4 cr.  
54191 031 DIS, 11:15-12:05 MWF, Lind Hall 340, In Person Term Based; 4 cr.  
54182 024 DIS, 9:05- 9:55 MWF, Lind Hall 325, In Person Term Based; 4 cr.

54221 062 DIS, 11:15-12:30 TTh, Appleby Hall 223, In Person Term Based; ; 4 cr.  
 54219 041 DIS, 13:00-14:15 MW, Lind Hall 325, In Person Term Based; ; 4 cr.  
 54181 023 DIS, 9:05- 9:55 MWF, Lind Hall 340, In Person Term Based; ; 4 cr.  
 54216 059 DIS, 9:45-11:00 TTh, Lind Hall 302, In Person Term Based; ; 4 cr.  
 54186 027 DIS, 10:10-11:00 MWF, Lind Hall 340, In Person Term Based; ; 4 cr.  
 54218 022 DIS, 8:15- 9:30 MW, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54227 066 DIS, 13:00-14:15 TTh, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54201 043 DIS, 13:25-14:15 MWF, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54215 058 DIS, 9:45-11:00 TTh, Lind Hall 217, In Person Term Based; ; 4 cr.  
 54230 069 DIS, 14:30-15:45 TTh, Lind Hall 302, In Person Term Based; ; 4 cr.  
 54236 075 DIS, 17:30-20:00 W, Lind Hall 303, In Person Term Based; ; 4 cr.  
 54234 073 DIS, 16:00-17:15 TTh, Lind Hall 315, In Person Term Based; ; 4 cr.  
 54210 052 DIS, 16:00-17:15 MW, Lind Hall 315, In Person Term Based; ; 4 cr.  
 54189 029 DIS, 10:10-11:00 MWF, Lind Hall 320, In Person Term Based; ; 4 cr.  
 54206 047 DIS, 14:30-15:20 MWF, Lind Hall 320, In Person Term Based; ; 4 cr.  
 54211 055 DIS, 8:15- 9:30 TTh, Lind Hall 325, In Person Term Based; ; 4 cr.  
 54224 064 DIS, 13:00-14:15 TTh, Nicholson Hall 145, In Person Term Based; ; 4 cr.  
 54214 057 DIS, 9:45-11:00 TTh, Nicholson Hall 335, In Person Term Based; ; 4 cr.  
 68929 714 LEC, In Person Term Based; Adam Kunz; 4 cr.  
 69129 723 LEC, In Person Term Based; Amanda Kartak; 4 cr.  
 68920 705 LEC, In Person Term Based; Audrey French; 4 cr.  
 68915 700 LEC, In Person Term Based; Carolyn Harmeyer; 4 cr.  
 69028 719 LEC, In Person Term Based; David Ostrom; 4 cr.  
 69029 720 LEC, In Person Term Based; David Ostrom; 4 cr.  
 68919 704 LEC, In Person Term Based; Holly Herman; 4 cr.  
 68925 710 LEC, In Person Term Based; Jim VanCura; 4 cr.  
 68921 706 LEC, In Person Term Based; Katie Burke; 4 cr.  
 68922 707 LEC, In Person Term Based; Kevin Hohn; 4 cr.  
 68928 713 LEC, In Person Term Based; Kristin Fry; 4 cr.  
 68917 702 LEC, In Person Term Based; Kristine Earsley; 4 cr.  
 68916 701 LEC, In Person Term Based; Martha Zosel; 4 cr.  
 68924 709 LEC, In Person Term Based; Matt Severns; 4 cr.  
 68932 717 LEC, In Person Term Based; Matt Severns; 4 cr.  
 68926 711 LEC, In Person Term Based; Paul Schmitz; 4 cr.  
 68927 712 LEC, In Person Term Based; Paul Schmitz; 4 cr.  
 68930 715 LEC, In Person Term Based; Phylis Hayes; 4 cr.  
 68933 718 LEC, In Person Term Based; Robert Hackney; 4 cr.  
 68931 716 LEC, In Person Term Based; Sean DuBe; 4 cr.  
 54220 061 DIS, 11:15-12:30 TTh, Lind Hall 302, In Person Term Based; Thomas Reynolds; 4 cr.  
 69030 721 LEC, In Person Term Based; Thomas Schraufnagel; 4 cr.  
 69032 722 LEC, In Person Term Based; Thomas Schraufnagel; 4 cr.  
 68918 703 LEC, In Person Term Based; Vicki Cary; 4 cr.  
 68923 708 LEC, In Person Term Based; Vicki Cary; 4 cr.  
 54177 016 DIS, 10:15-11:30 Th, Lrng & Environmental Sci 230, 10:15-11:30 T, Ruitan Hall B22, In Person Term Based; ; 4 cr.  
 54208 006 DIS, 15:35-16:25 MWF, Lind Hall 340, In Person Term Based; ; 4 cr.  
 54185 002 DIS, 9:05- 9:55 MWF, Appleby Hall 223, In Person Term Based; ; 4 cr.  
 54184 003 DIS, 10:10-11:00 MWF, Appleby Hall 223, In Person Term Based; ; 4 cr.  
 54222 009 DIS, 11:15-12:30 TTh, Lind Hall 215, In Person Term Based; ; 4 cr.  
 54202 005 DIS, 13:25-14:15 MWF, Lind Hall 217, In Person Term Based; ; 4 cr.  
 54194 004 DIS, 11:15-12:05 MWF, Nicholson Hall 355, In Person Term Based; ; 4 cr.  
 54560 175 DIS, Completely Online; ; 4 cr.  
 54561 176 DIS, Completely Online; ; 4 cr.  
 54176 015 DIS, 8:45-10:00 Th, Magrath Library 6, 8:45-10:00 T, Lrng & Environmental Sci 230, In Person Term Based; ; 4 cr.  
 54229 011 DIS, 14:30-15:45 TTh, Akerman Hall 227, In Person Term Based; ; 4 cr.  
 55303 141 DIS, 13:25-14:15 MW, Appleby Hall 103, Partially Online; ; 4 cr.  
 55302 140 DIS, 9:05- 9:55 MW, Lind Hall 203, Partially Online; ; 4 cr.

#### 1401 Writing and Academic Inquiry (A-F only; Prereq: Placement in Writ 1401)

67365 002 DIS, 9:05- 9:55 MWF, Lind Hall 303, In Person Term Based; 4 cr.  
 54237 001 DIS, 13:00-14:15 TTh, Appleby Hall 223, In Person Term Based; ; 4 cr.  
**3029W Business and Professional Writing  
(Student Option; WI)**  
 56374 001 DIS, 10:10-11:00 MWF, Lind Hall 303, In Person Term Based; ; 3 cr.  
 56375 002 DIS, 8:15- 9:30 TTh, Lind Hall 315, In Person Term Based; ; 3 cr.

#### 3101W Writing Arguments (A-F or Audit; Prereq: Soph or jr or srWI)

55304 001 LEC, 14:30-15:45 MW, Nolte Center 229, In Person Term Based; ; 3 cr.

#### 3152W Writing on Issues of Science and Technology (A-F or Audit; WI)

54147 001 DIS, 11:15-12:30 TTh, Nolte Center 229, In Person Term Based; Carol Berkenkotter; 4 cr.

#### 3221W Communication Modes and Methods (A-F only; Prereq: Soph or jr or srWI)

56850 001 DIS, 14:30-15:45 TTh, Nolte Center 229, In Person Term Based; Carol Berkenkotter; 4 cr.

#### 3244W Critical Literacies: How Words Change the World (A-F or Audit; Prereq: Soph or jr or srAH,WI,DSJ)

55462 001 DIS, 16:00-18:30 T, Lind Hall 325, In Person Term Based; Patrick Bruch; 3 cr.

#### 3257 Technical and Professional Presentations (Student Option No Audit; Prereq: COMM 1101 or instr consent)

54148 001 LEC, 9:45-11:00 ThT, Lind Hall 340, In Person Term Based; ; 3 cr.  
 57076 002 LEC, 13:30-14:45 TTh, Borlaug Hall 365, In Person Term Based; Richard Graff; 3 cr.

#### 3315 Writing on Issues of Land and the Environment (A-F or Audit; Prereq: Soph or jr or srAH,DSJ)

57718 001 LEC, 13:00-14:15 TTh, Lind Hall 340, In Person Term Based; Thomas Reynolds; 3 cr.

#### 3361 Literature of Social Movements in the United States: 1950 to Present (A-F or Audit; Prereq: Soph or jr or sr or instr consentCIV,LITR)

65590 001 DIS, 9:45-11:00 TTh, Lind Hall 303, In Person Term Based; Mary Schuster; 3 cr.

#### 3405W Humanistic Healthcare and Communication (Student Option; AH,WI)

58262 001 DIS, 13:00-14:15 WF, Anderson Hall 370, In Person Term Based; William West; 3 cr.

#### 3441 Editing, Critique, and Style (A-F only; Prereq: Soph or jr or sr)

56376 001 DIS, 11:15-12:30 Th, Nicholson Hall 315, 11:15-12:30 T, Appleby Hall 319, In Person Term Based; Barbara Horvath; 3 cr.

#### 3562W Technical and Professional Writing (A-F only; Prereq: [Jr or sr or instr consent], [1301 or 1401 or equiv]WI)

59742 081 DIS, Completely Online; 4 cr.  
 68354 100 DIS, Completely Online; 4 cr.  
 69092 012 DIS, 13:55-14:45 MWF, Magrath Library 6, In Person Term Based; 4 cr.  
 58405 005 DIS, 9:45-11:00 TTh, Lind Hall 325, In Person Term Based; 4 cr.  
 61062 011 DIS, 9:05- 9:55 W, Nicholson Hall 335, 9:05- 9:55 MF, Nicholson Hall 120, In Person Term Based; 4 cr.  
 56509 075 DIS, Completely Online; ; 4 cr.  
 54157 076 DIS, Completely Online; ; 4 cr.  
 54158 077 DIS, Completely Online; ; 4 cr.  
 54159 078 DIS, Completely Online; ; 4 cr.  
 55040 079 DIS, Completely Online; ; 4 cr.  
 55869 080 DIS, Completely Online; ; 4 cr.  
 54150 002 DIS, 10:40-11:30 F, Lrng & Environmental Sci 230, 10:40-11:30 MW, Magrath Library 6, In Person Term Based; ; 4 cr.  
 54151 003 DIS, 12:50-13:40 F, Lrng & Environmental Sci 230, 12:50-13:40 MW, Magrath Library 6, In Person Term Based; ; 4 cr.

54414 010 DIS, 11:45-12:35 MW, Magrath Library 6, 11:45-12:35 F, Lrng & Environmental Sci 230, In Person Term Based; ; 4 cr.  
 54153 006 DIS, 11:45-13:00 Th, Magrath Library 8, 11:45-13:00 T, Lrng & Environmental Sci 230, In Person Term Based; ; 4 cr.  
 54154 007 DIS, 15:00-16:15 Th, McNeal Hall 146, 15:00-16:15 T, Lrng & Environmental Sci 230, In Person Term Based; ; 4 cr.  
 54155 008 DIS, 16:00-17:15 MW, Lind Hall 302, In Person Term Based; ; 4 cr.  
 54156 009 DIS, 17:30-20:00 M, Lind Hall 320, In Person Term Based; ; 4 cr.  
 54152 004 DIS, 14:30-15:20 MWF, Lind Hall 340, In Person Term Based; ; 4 cr.  
 54149 001 DIS, 11:15-12:30 TTh, Lind Hall 325, In Person Term Based; Anne Lazaraton; 4 cr.

#### 3577W Rhetoric, Technology, and the Internet (A-F only; Prereq: Soph or jr or sr or instr consentS,WI)

59680 002 DIS, 8:15- 9:30 MW, Lind Hall 302, In Person Term Based; 3 cr.  
 57731 001 DIS, 16:00-17:15 MW, Lind Hall 303, In Person Term Based; John Logie; 3 cr.

#### 3671 Visual Rhetoric and Document Design (A-F only; Prereq: Jr or sr)

56879 001 DIS, 13:00-14:15 MW, Lind Hall 315, In Person Term Based; John Logie; 3 cr.

#### 3672W Project Design and Development (A-F or Audit; Prereq: Jr or srWI)

65591 001 DIS, 11:15-12:30 M, Bruininks Hall 530B, Partially Online; 3 cr.

#### 3701W Rhetorical Theory for Writing Studies (A-F only; Prereq: TWC or Sconcurrent registration is required (or allowed) in TC Major, Soph or jr or sr or instr consentWI)

54160 001 DIS, 9:45-11:00 MF, Bruininks Hall 530B, In Person Term Based; John Logie; 4 cr.

#### 4431W Science, Technology, and the Law (A-F only; Prereq: Jr or sr or grad student or instr consentCIV,WI)

56378 001 LEC, 13:00-14:15 TTh, Lind Hall 303, In Person Term Based; Mary Schuster; 3 cr.

#### 4562 International Professional Communication (Student Option; )

65595 001 LEC, Completely Online; Ann Duin; 3 cr.

#### 4573W Writing Proposals and Grant Management (A-F or Audit; Prereq: [[3562W or 3029W or equiv], [[jr or sr] STC major or grad student]] or instr consentWI)

65592 001 LEC, 16:00-18:30 T, Lind Hall 320, In Person Term Based; Kimberly Thomas-Pollei; 3 cr.

#### 5051 Graduate Research Writing Practice for Non-native Speakers of English (Student Option; Prereq: Grad student)

54162 001 LEC, 13:00-14:15 TTh, Lind Hall 325, In Person Term Based; Kimberley Strain; 3 cr.  
 56379 002 LEC, 9:45-11:00 TTh, Lind Hall 320, In Person Term Based; Sheryl Holt; 3 cr.

#### 5052 Graduate Research Presentations and Conference Writing for Non-Native Speakers of English (Student Option; Prereq: [Grad student, non-native speaker of English] or instr consent)

54163 001 LEC, 13:00-14:15 TTh, Nolte Center 229, In Person Term Based; Sheryl Holt; 3 cr.

#### 5112 Information Design: Theory and Practice (A-F or Audit; Prereq: Grad student or instr consent)

59681 075 LEC, Completely Online; 3 cr.

#### 5270 Special Topics (Student Option; Prereq: Grad student or instr consentWI)

57679 001 LEC, 14:30-17:00 F, Nolte Center 229, In Person Term Based; Meets With: 001 ENGL 5805; Donald Ross Jr; 3 cr.

#### 8333 FTE: Master's



(No Grade Associated; Prereq: Master's student, adviser and DGS consent)  
54462 001 IND, In Person Term Based; Donald Ross Jr; 1 cr.

#### 8444 FTE: Doctoral

(No Grade Associated; Prereq: Doctoral student, adviser and DGS consent)  
54463 001 IND, In Person Term Based; Donald Ross Jr; 1 cr.

#### 8505 Professional Practice

(S-N only; Prereq: Grad student)  
58263 001 LEC, 16:00-18:30 M, Nolte Center 235, In Person Term Based; Ann Duin; 3 cr.

#### 8510 Seminar in Rhetoric

(A-F or Audit; )  
59682 001 LEC, 14:30-17:00 W, Nolte Center 235, In Person Term Based; Richard Graff; 3 cr.

#### 8550 Seminar in Technology, Culture, and Communication

(A-F or Audit; )  
65593 001 LEC, 14:30-17:00 Th, Nolte Center 235, In Person Term Based; Laura Gurak; 3 cr.

#### 8666 Doctoral Pre-Thesis Credits

(No Grade Associated; Prereq: Doctoral student who has not passed prelim oral; no required consent for 1st/2nd registrations, up to 12 combined cr; dept consent for 3rd/4th registrations, up to 24 combined cr; doctoral student admitted before summer 2007 may register up to four times, up to 60 combined cr)  
54464 001 IND, In Person Term Based; Donald Ross Jr; 1-6 cr.

#### 8777 Thesis Credits: Master's

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required [Plan A only])  
54465 001 IND, In Person Term Based; Donald Ross Jr; 1-18 cr.

#### 8794 Directed Research

(S-N only; Prereq: instr consent)  
59684 001 IND, In Person Term Based; Donald Ross Jr; 1-4 cr.

#### 8888 Thesis Credit: Doctoral

(No Grade Associated; Prereq: Max 18 cr per semester or summer; 24 cr required)  
54466 001 IND, In Person Term Based; Donald Ross Jr; 1-24 cr.

### Youth Development and Research (YOST)

#### 1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship

(Student Option; )  
57074 001 LEC, 11:45-13:00 MW, McNeal Hall 395, In Person Term Based; Meets With: 002 YOST 1001; Peggy Pond; 3 cr.  
58924 003 LEC, 8:15- 9:30 TTh, Elliott Hall N647, In Person Term Based; Peggy Pond; 3 cr.  
57075 002 LEC, 11:45-13:00 MW, McNeal Hall 395, In Person Term Based; Meets With: 001 YOST 1001; Peggy Pond; 3 cr.

#### 2241 Experiential Learning

(Student Option; Prereq: [1001, 2001] or instr consent)  
57400 001 LEC, 10:40-12:35 TTh, Peters Hall 5, In Person Term Based; Peggy Pond; 4 cr.

#### 3001 Introduction to History & Philosophy of Youthwork

(Student Option; Prereq: 2xxx or instr consent)  
56365 001 LEC, 10:40-12:35 MW, Peters Hall 5, In Person Term Based; Peggy Pond; 4 cr.

#### 3032 Adolescent and Youth Development for Youthworkers

(Student Option; Prereq: 1001 or 2001 or 2002W or 2101, [any Psych or CPsy course])  
55222 001 LEC, 8:30-10:25 MW, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5032; Peggy Pond; 4 cr.

#### 3101 Youthwork: Orientations and Approaches

(Student Option; Prereq: One gen psy course, one gen soc course)  
56366 001 LEC, 8:30-10:25 TTh, Kaufert Laboratory 302, In Person Term Based; Peggy Pond; 4 cr.

#### 3234 Youth Agencies, Organizations, and Youth Service Systems

(Student Option; Prereq: [Two soc/anth courses, work experience in youth [agency or org]] or instr consent)  
67387 001 LEC, In Person Term Based; Meets With: 001 YOST 5234; 3 cr.

#### 3240 Special Topics in Youth Studies

(Student Option; Prereq: [Two social sci courses, exp working with youth] or instr consent)  
67386 001 LEC, 15:00-17:20 M, Burton Hall 120, In Person Term Based; Meets With: 001 YOST 5240; Peggy Pond; 2-8 cr.

#### 4196 Youthwork Internship

(Student Option; Prereq: Declaration of youth studies major, instr consent)  
54387 001 FWK, 9:35-12:05 F, Peters Hall 280, In Person Term Based; Peggy Pond; 4 cr.

#### 4314 Theater Activities in Youthwork and Education

(Student Option; Prereq: 1001 or 2101)  
54602 001 LEC, 9:00-17:00 F, Student Center Theater, 10:00-17:00 Sa, Ruttan Hall 143, 10:00-17:00 Sa, Ruttan Hall 143, In Person Term Based; Meets With: 001 YOST 5314; Peggy Pond; 2 cr.

#### 4321 Work with Youth: Individual

(Student Option; Prereq: 1001 or 2101 or instr consent)  
67388 001 LEC, 15:00-16:55 T, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5321; Peggy Pond; 2 cr.

#### 4401W Young People's Spirituality and Youthwork: An Introduction

(Student Option; Prereq: 1001 or 2002W or instr consentW)  
68723 001 LEC, 12:50-14:45 TTh, McNeal Hall 146, In Person Term Based; Meets With: 001 YOST 5401; Peggy Pond; 4 cr.

#### 4411 Youth Research and Youth Program Evaluation

(Student Option; Prereq: Basic research methods course or instr consent)  
54603 001 LEC, 10:40-12:35 TTh, McNeal Hall 395, In Person Term Based; Peggy Pond; 4 cr.

#### 5032 Adolescent and Youth Development for Youthworkers

(Student Option; Prereq: [1001 or 2001 or 2002W or 2101], [any Psych or CPsy course])  
55223 001 LEC, 8:30-10:25 MW, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 3032; Peggy Pond; 4 cr.

#### 5234 Youth Agencies, Organizations, and Youth Service System

(Student Option; Prereq: [Two soc/anth courses, work experience in [youth agency or org]] or instr consent)  
67389 001 LEC, In Person Term Based; Meets With: 001 YOST 3234; 3 cr.

#### 5240 Special Topics in Youth Studies

(Student Option; )  
68019 001 LEC, 15:00-17:20 M, Burton Hall 120, In Person Term Based; Meets With: 001 YOST 3240; Peggy Pond; 2 cr.

#### 5291 Independent Study in Youth Studies

(Student Option; )  
56367 003 IND, In Person Term Based; Katie Johnston-Goodstar; 1-8 cr.  
48347 001 IND, In Person Term Based; Peggy Pond; 1-8 cr.  
53961 002 IND, In Person Term Based; Peggy Pond; 1-8 cr.

#### 5314 Theatre Activities in Youthwork and Education

(Student Option; Prereq: 1001 or 2101)  
54399 001 LEC, 9:00-17:00 F, Student Center Theater, 10:00-17:00 Sa, Ruttan Hall 143, 10:00-17:00 Sa, Ruttan Hall 143, In Person Term Based; Meets With: 001 YOST 4314; Peggy Pond; 2 cr.

#### 5321 Work With Youth: Individual

(Student Option; Prereq: 1001 or 2002W or instr consent)  
67390 001 LEC, 15:00-16:55 T, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 4321; Peggy Pond; 2 cr.

#### 5401 Young People's Spirituality and Youthwork: an Introduction

(A-F or Audit; Prereq: [2001, one course each in [Anth, Soc, CPsy]] or instr consent)  
68724 001 LEC, 12:50-14:45 TTh, McNeal Hall 146, In Person Term Based; Meets With: 001 YOST 4401W; Peggy Pond; 4 cr.

#### 5954 Experiential Learning: Pedagogy for Community and Classroom

(Student Option; )  
58015 001 DIS, 18:00-20:45 T, Peters Hall 5, In Person Term Based; Peggy Pond; 3 cr.

#### 5958 Community: Context for Youth Development Leadership

(A-F or Audit; )  
58016 001 DIS, 18:00-20:45 M, Peters Hall 5, In Person Term Based; Peggy Pond; 3 cr.

#### 5960 Seminar in Youth Development Leadership

(S-N or Audit; Prereq: YDL student or instr consent)  
58017 001 LEC, In Person Term Based; Ross VeLure Roholt; 1-4 cr.  
58380 002 LEC, In Person Term Based; Ross VeLure Roholt; 1-4 cr.  
58381 003 LEC, In Person Term Based; Ross VeLure Roholt; 1-4 cr.  
58382 004 LEC, In Person Term Based; Ross VeLure Roholt; 1-4 cr.

#### 5962 Leadership Field Experience: Youth Development

(S-N only; Prereq: YDL student)  
58018 001 FWK, In Person Term Based; Ross VeLure Roholt; 4 cr.