

## Academic Health Center Shared (AHS)

### 1101 Orientation to Health Careers

(Student Option No Audit; )  
64842 001 LEC, 15:35-16:25 M, Twin Cities Remote, Completely Online; Scott Simpson ; 1 cr.

### 1102 Orientation to Health Careers

(Student Option No Audit; )  
64843 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Fred Williams ; 1 cr.

### 1104 Experiences in Health

(Student Option; Prereq: Enrolled in the Health Professions Pathways Program; AHS 1101, AHS 1102 or AHS 1600.)

68149 001 LEC, 12:20-14:00 F, Phillips-Wangenstn Bldg 3-156, In Person Term Based; Fatima Omar ; 2 cr.

### 1601 The Future Physician II

(Student Option; )  
64851 001 LEC, 15:35-16:25 W, Health Sci Ed Ctr 7150/7152, In Person Term Based; Tricia Todd, Andrew Slattengren ; 1 cr.

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

(Student Option; Prereq: [1600 or 1601], instr consent)  
64858 001 FWK, 00:00-00:00 , ONLINE, Completely Online; Scott Simpson ; 2 cr.

### 1901 Health in the Tropics: Humans, Animals, and Ecosystems (A-F only; GP)

69217 001 DIS, 14:30-16:25 T, Phillips-Wangenstn Bldg 3-156, In Person Term Based; Dana Lovold, Tricia Todd ; 3 cr.

### 2400 Writing a Personal Statement

(S-N only; )  
64866 001 DIS, 13:25-14:15 T, Twin Cities Remote, Completely Online; Scott Simpson, Dana Lovold, Fred Williams ; 1 cr.  
64867 002 DIS, 10:10-11:00 W, Twin Cities Remote, Completely Online; Dana Lovold, Scott Simpson ; 1 cr.  
64868 003 DIS, 10:10-11:00 Th, Twin Cities Remote, Completely Online; Dana Lovold, Fred Williams ; 1 cr.

### 3003 Sustainable Approaches to Health in France

(A-F only; GP)  
69218 001 DIS, 13:25-14:15 W, Phillips-Wangenstn Bldg 3-150, In Person Term Based; Tricia Todd, Karin Hamilton ; 3 cr.

### 4393 Directed Study

(Student Option; Prereq: instructor consent)  
64915 001 IND, Independent/Directed Study; Tricia Todd, Fred Williams, Dana Lovold, Scott Simpson, Karin Hamilton ; 1-3 cr.

## Accounting (ACCT)

### 1911 The Language of Business

(A-F only; )  
65993 001 LEC, 09:45-11:00 MW, Carlson School of Mgmt 2-219, In Person Term Based; Kendell Poch ; 3 cr.

### 2050 Introduction to Financial Reporting

(A-F or Audit; Prereq: Soph)  
57706 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt L-110, In Person Term Based; Kendell Poch ; 4 cr.  
57707 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-110, In Person Term Based; Nan Li ; 4 cr.  
57708 003 LEC, 11:50-13:30 MW, Hanson Hall 1-106, In Person Term Based; Cyrus Aghamolla ; 4 cr.  
57709 004 LEC, 13:45-15:25 TTh, Carlson School of Mgmt L-110, In Person Term Based; Nan Li ; 4 cr.  
57920 005 LEC, 16:00-17:40 MW, Hanson Hall 1-104, In Person Term Based; Paul Ma ; 4 cr.  
57963 006 LEC, 15:45-17:25 TTh, Carlson School of Mgmt L-110, In Person Term Based; Nan Li ; 4 cr.  
58188 007 LEC, 09:55-11:35 MW, Carlson School of Mgmt L-110, In Person Term Based; Cyrus Aghamolla ; 4 cr.  
58238 008 LEC, 11:50-13:30 MW, Hanson Hall 1-105, In Person Term Based; Grace Londregan ; 4 cr.  
66392 009 LEC, 11:50-13:30 TTh, Hanson Hall 1-109, In Person Term Based; Wenwei Lin ; 4 cr.

### 2050H Honors: Introduction to Financial Reporting

(A-F or Audit; )  
57985 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-233, In Person Term Based; Paul Ma ; 4 cr.

### 3001 Introduction to Management

**Accounting**  
(A-F or Audit; Prereq: 2050)  
57711 001 LEC, 16:00-17:15 MW, Hanson Hall 1-108, In Person Term Based; Gaoqing Zhang ; 3 cr.  
57712 002 LEC, 14:30-15:45 MW, Hanson Hall 1-108, In Person Term Based; Gaoqing Zhang ; 3 cr.  
57713 020 LEC, 17:45-20:15 T, Hanson Hall 1-102, In Person Term Based; Paul White ; 3 cr.  
57976 003 LEC, 11:15-12:30 MW, Hanson Hall 1-102, In Person Term Based; Gaoqing Zhang ; 3 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)  
57732 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-135, In Person Term Based; Joshua Madsen ; 4 cr.  
57866 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Joshua Madsen ; 4 cr.  
57904 004 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Tammy Naples ; 4 cr.  
57993 003 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Tammy Naples ; 4 cr.

### 5102 Intermediate Accounting II

(A-F or Audit; Prereq: 5101 [mgmt or grad mgmt student])  
57733 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-132, In Person Term Based; Vivian Fang ; 4 cr.  
57900 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-224, In Person Term Based; Vivian Fang ; 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)  
57734 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-127, In Person Term Based; Scott Johnson ; 4 cr.  
58006 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt L-118, In Person Term Based; Frank Beil ; 4 cr.

### 5126 Internal Auditing

(A-F or Audit; Prereq: 2050)  
57941 001 LEC, 10:10-11:50 TTh, Carlson School of Mgmt 2-213, In Person Term Based; John Grayson ; 2 cr.

### 5135 Fundamentals of Federal Income Tax

(A-F or Audit; Prereq: [2050 or MBA 6030], [mgmt or grad mgmt student])  
57735 001 LEC, 12:20-14:00 MW, Hanson Hall 1-103, In Person Term Based; Paul Gutterman ; 4 cr.  
57736 002 LEC, 10:10-11:50 MW, Carlson School of Mgmt 1-147, In Person Term Based; Paul Gutterman ; 4 cr.

### 5141 Financial-Data Analytics

(A-F only; Prerequisite for this course is business statistics. We will also provide a brief overview of the concepts of probability and statistical inference. Relying on the above tools and methodology, students enhance their analytical skills and ultimately achieve deeper understanding on issues related to financial reporting, auditing, and capital markets. Prereq: SCO 2550 or equivalent statistics course.)  
65994 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Joshua Madsen ; 2 cr.

### 5160 Financial Statement Analysis

(A-F or Audit; Prereq: [5101])  
57739 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-132, In Person Term Based; Kendell Poch ; 2 cr.  
57794 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt L-122, In Person Term Based; Kendell Poch ; 2 cr.

### 5201 Intermediate Management Accounting

(A-F or Audit; Prereq: 3001, acct or finance major)  
57740 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-127, In Person Term Based; Paul White ; 2 cr.  
57741 020 LEC, 17:45-21:05 Th, Carlson School of Mgmt 1-127, In Person Term Based; Paul White ; 2 cr.  
58134 002 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-127, In Person Term Based; Paul White ; 2 cr.

### 5236 Introduction to Taxation of Business

(A-F or Audit; Prereq: 5135, acct major)  
57760 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-206, In Person Term Based; Roger Conlon ; 2 cr.

### 5310 International Accounting

(A-F or Audit; Prereq: 5101; [5102 or concurrent registration is required (or allowed) in 5102] recommended)

58182 001 LEC, 12:20-14:00 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Clayton Forester ; 2 cr.

### 5420 MAcc directed study

(Student Option; Prereq: MAcc student)  
57899 001 IND, 00:00-00:00 , In Person Term Based; Clayton Forester ; 1-4 cr.

## Addiction Studies (ADDS)

### 5011 Foundations in Addiction Studies

(A-F only; )  
64674 301 LEC, Completely Online; Emily Jensen ; 2 cr.

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

(A-F only; )  
64675 001 LEC, 09:00-12:40 M, Ruttan Hall B36, In Person Term Based; Laura Boisen ; 3 cr.

### 5031 Applied Psychopharmacology

(A-F only; )  
64552 001 LEC, 18:00-21:00 W, Ruttan Hall B26, 18:00-21:00 W, Ruttan Hall B26, 18:00-21:00 W, Ruttan Hall B26, 18:00-21:00 W, Ruttan Hall B26, 18:00-21:00 W, Ruttan Hall B26, In Person Term Based; Ian McLoone ; 2 cr.

### 5041 Methods and Models I: Motivational Counseling

(A-F only; )  
64661 001 LEC, 09:00-11:30 M, Ruttan Hall B30, In Person Term Based; Jennifer Weigelt ; 2 cr.

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

(A-F only; )  
64553 001 LEC, 09:00-12:00 Sa, McNeal Hall 33, In Person Term Based; Keyur Desai ; 2 cr.  
69374 002 LEC, 12:30-15:30 Sa, McNeal Hall 33, In Person Term Based; Keyur Desai ; 2 cr.

### 5061 Foundations of Group Work

(A-F only; )  
64551 001 LEC, 17:30-21:00 Th, Ruttan Hall B26, In Person Term Based; Fiyaz Karim ; 3 cr.

### 5071 Foundations of Co-occurring Disorders

(A-F only; )  
65903 301 LEC, Completely Online; Ann Ingwalsen ; 2 cr.

### 5081 Multicultural Foundations of Behavioral Health

(A-F only; )  
64658 001 LEC, 17:30-20:30 W, Ruttan Hall B30, In Person Term Based; Fiyaz Karim ; 3 cr.  
69363 002 LEC, 12:30-15:30 W, Lrng & Environmental Sci 220, In Person Term Based; Fiyaz Karim ; 3 cr.

### 5091 Assessment and Treatment Planning I

(A-F only; )  
68224 001 LEC, 18:00-21:15 T, Twin Cities Remote, Completely Online; Roy Kammer ; 3 cr.

### 5121 Professional Seminar 1: Internship Prep

(S-N only; )  
64584 001 LEC, 12:00-13:30 W, Twin Cities Remote, 12:00-13:30 W, Twin Cities Remote, 12:00-13:30 W, Twin Cities Remote, 12:00-13:30 W, Twin Cities Remote, 12:00-13:30 W, Twin Cities Remote, Completely Online; Debra Wamsley ; 1 cr.

### 5993 Directed Study

(Student Option; Prereq: dept consent)  
64585 001 IND, In Person Term Based; 1-3 cr.

### 5996 Internship in Behavioral Health

(S-N only; )  
64583 101 IND, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, Completely Online; Debra Wamsley ; 1 cr.  
64706 102 IND, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, 10:00-11:30 W, Twin Cities Remote, Completely Online; Debra Wamsley ; 1 cr.

69290 103 IND, 10:00-11:00 W, Twin Cities Remote,  
10:00-11:00 W, Twin Cities Remote, 10:00-11:00 W,  
Twin Cities Remote, 10:00-11:00 W, Twin Cities Remote,  
Completely Online; Debra Wamsley ; 1 cr.  
69291 104 IND, 10:00-11:00 W, Ruttan Hall B30,  
10:00-11:00 W, Ruttan Hall B30, 10:00-11:00 W, Ruttan  
Hall B30, In Person Term Based; Debra Wamsley ; 1 cr.

## Aerospace Engineering and Mech (AEM)

### 1303 Aircraft: Design, Build, and Fly

(Student Option No Audit; )

66161 001 LEC, 15:35-17:30 T, Akerman Hall 317, In Person  
Term Based; Chris Regan ; 2 cr.

### 2011 Statics

(A-F or Audit; Prereq: PHYS 1301W, [concurrent  
registration is required (or allowed) in Math 2374 or  
equiv], CSE)

59331 001 LEC, 09:05-09:55 MWF, Fraser Hall 102, In  
Person Term Based; Joseph Mueller ; 3 cr.  
59332 002 DIS, 13:25-14:15 T, Akerman Hall 215, In Person  
Term Based; 3 cr.  
60928 003 DIS, 09:05-09:55 T, Akerman Hall 211, In Person  
Term Based; 3 cr.

### 2012 Dynamics

(A-F or Audit; Prereq: 2011, [concurrent registration  
is required (or allowed) in Math 2373 or equiv], CSE  
student)

59333 001 LEC, 11:15-12:05 MWF, Smith Hall 231, In  
Person Term Based; Ryan Caverly ; 3 cr.  
59334 002 DIS, 11:15-12:05 T, Akerman Hall 313, In Person  
Term Based; 3 cr.  
59335 003 DIS, 13:25-14:15 T, Akerman Hall 211, In Person  
Term Based; 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)

59336 001 LEC, 12:20-13:10 MTWF, Fraser Hall 101, In  
Person Term Based; Chris Regan ; 4 cr.  
59338 003 DIS, 12:20-13:10 Th, Akerman Hall 313, In  
Person Term Based; 4 cr.  
59339 004 DIS, 15:35-16:25 Th, Akerman Hall 317, In  
Person Term Based; 4 cr.

### 2031 Mechanics for Materials Engineers

(A-F only; Prereq: Math 2374, Math 2373 (concurrent  
allowed), Phys 1301W, CSE Student, Materials  
Engineering Major or premajor)

61487 001 LEC, 13:25-14:15 MWF, Akerman Hall 209, In  
Person Term Based; Ariel Ibarra Pino ; 3 cr.  
61488 002 DIS, 10:10-11:00 T, Akerman Hall 215, In Person  
Term Based; 3 cr.  
61489 003 DIS, 14:30-15:20 T, Akerman Hall 211, In Person  
Term Based; 3 cr.

### 2301 Mechanics of Flight

(A-F or Audit; Prereq: PHYS 1301W, [concurrent  
registration is required (or allowed) in MATH 2373 or  
equiv], CSE)

59340 001 LEC, 12:20-13:10 MWF, Smith Hall 231, In  
Person Term Based; Demoz Gebre Egziabher ; 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)

59341 001 LEC, 13:25-14:15 MWF, Smith Hall 100, In  
Person Term Based; Todd Hesla ; 3 cr.  
59342 002 DIS, 08:00-08:50 Th, Akerman Hall 211, In  
Person Term Based; 3 cr.  
59343 003 DIS, 11:15-12:05 Th, Akerman Hall 313, In  
Person Term Based; 3 cr.  
59344 004 DIS, 10:10-11:00 Th, Akerman Hall 313, In  
Person Term Based; 3 cr.  
59345 005 DIS, 10:10-11:00 Th, Akerman Hall 215, In  
Person Term Based; 3 cr.  
59789 007 DIS, 13:25-14:15 Th, Akerman Hall 313, In  
Person Term Based; 3 cr.  
60658 008 DIS, 09:05-09:55 Th, Akerman Hall 211, In  
Person Term Based; 3 cr.  
60744 009 DIS, 15:35-16:25 Th, Akerman Hall 215, In  
Person Term Based; 3 cr.  
61275 012 DIS, 13:25-14:15 Th, Akerman Hall 215, In  
Person Term Based; 3 cr.

### 3391 Independent Design Project

(A-F only; Prereq: dept consent)

61055 001 IND, 00:00-00:00 , Independent/Directed Study;  
Chris Regan ; 3 cr.

### 4202 Aerodynamics

(A-F or Audit; Prereq: upper div CSE or grad, 4201)

59351 001 LEC, 10:10-12:05 MW, Keller Hall 3-230, In  
Person Term Based; Krishnan Mahesh ; 4 cr.

### 4203 Aerospace Propulsion

(A-F or Audit; Prereq: 4202, [CSE upper div or grad  
student])

59715 001 LEC, 12:20-14:15 TTh, Smith Hall 331, In Person  
Term Based; Melissa Green ; 4 cr.

### 4247 Hypersonic Aerodynamics

(A-F or Audit; Prereq: 4202, CSE upper division)

61573 001 LEC, 10:10-11:00 MWF, Akerman Hall 319, In  
Person Term Based; Meets With: 001 AEM 5247; Graham  
Candler ; 3 cr.

### 4293 Directed Studies in Fluid Mechanics

(Student Option; Prereq: dept consent)

61744 001 IND, In Person Term Based; 1-3 cr.

### 4301 Orbital Mechanics

(A-F or Audit; Prereq: [2012 or equiv], [MATH 2373 or  
equiv], [CSE upper div or grad student])

60929 001 LEC, 15:35-16:25 MWF, Mayo Bldg & Additions  
C231, In Person Term Based; Kirsten Strandjord ; 3 cr.

### 4303W Flight Dynamics and Control

(A-F or Audit; Prereq: [2012, 2301, 3101, [WRIT 1301  
or equiv], [CSE upper div or grad student]] or instr  
consentW)

59347 001 LEC, 09:05-09:55 MWF, Akerman Hall 209, In  
Person Term Based; Demoz Gebre Egziabher, Maziar  
Hemati, Yohannes Ketema ; 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)

60649 001 LEC, 13:25-14:15 MWF, Mechanical Engineering  
102, In Person Term Based; Ryan Caverly ; 3 cr.  
68020 883 LEC, 13:25-14:15 MWF, Twin Cities Remote,  
Completely Online; Ryan Caverly ; 3 cr.

### 4333 Aerospace Design: Special Projects

(Student Option; Prereq: 4331 or instr consent)

60286 001 DIS, 00:00-00:00 , In Person Term Based; Chris  
Regan ; 3 cr.

### 4493 Directed Studies in Aerospace Systems

(Student Option; Prereq: dept consent)

61743 001 IND, In Person Term Based; 1-3 cr.

### 4501 Aerospace Structures

(A-F or Audit; Prereq: CSE upper div or grad, 3031 or  
equiv)

59348 001 LEC, 13:25-14:15 MWF, Smith Hall 231, In  
Person Term Based; Ryan Elliott ; 3 cr.

### 4511 Mechanics of Composite Materials

(Student Option; Prereq: 3031 (or 2031 if MatSci), [CSE  
upper div or grad student])

59349 001 LEC, 12:20-13:10 MWF, Rapson Hall 100, In  
Person Term Based; Perry Leo ; 3 cr.

### 4593 Directed Studies: Solid Mechanics

(Student Option; Prereq: dept consent)

61742 001 IND, In Person Term Based; 1-3 cr.

### 4601 Instrumentation Laboratory

(A-F or Audit; Prereq: CSci 1113, EE 3005, EE 3006,  
[upper div BAEM])

59650 001 LEC, 14:30-15:20 MWF, Tate Hall B20, In Person  
Term Based; Yohannes Ketema ; 3 cr.  
59651 002 LAB, 08:00-11:00 T, Akerman Hall 3, In Person  
Term Based; 3 cr.  
59652 003 LAB, 14:30-17:30 T, Akerman Hall 3, In Person  
Term Based; 3 cr.  
59653 004 LAB, 08:00-11:00 Th, Akerman Hall 3, In Person  
Term Based; 3 cr.  
59654 005 LAB, 14:30-17:30 Th, Akerman Hall 3, In Person  
Term Based; 3 cr.  
59655 006 LAB, 08:00-11:00 F, Akerman Hall 3, In Person  
Term Based; 3 cr.  
60553 007 LAB, 11:15-14:15 T, Akerman Hall 3, In Person  
Term Based; 3 cr.  
60554 008 LAB, 11:15-14:15 Th, Akerman Hall 3, In Person  
Term Based; 3 cr.

### 4796 Professional Experience

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

59731 001 FWK, 00:00-00:00 , In Person Term Based;  
Yohannes Ketema ; 3 cr.

### 4894 Directed Studies: Senior Honors Thesis

(A-F only; Prereq: Honors student, permission of  
University Honors Program, AEM major)

60741 001 IND, 00:00-00:00 , Independent/Directed Study;  
Yohannes Ketema ; 3 cr.

### 4896 International Professional Experience

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

60787 001 FWK, 00:00-00:00 , Independent/Directed Study;  
Yohannes Ketema ; 3 cr.

### 5247 Hypersonic Aerodynamics

(A-F or Audit; Prereq: 4202 or equiv, CSE grad student)

61574 001 LEC, 10:10-11:00 MWF, Akerman Hall 319, In  
Person Term Based; Meets With: 001 AEM 4247; Graham  
Candler ; 3 cr.

## Aerospace Studies (AIR)

### 1000 Leadership Laboratory

(S-N or Audit; )

64749 001 LAB, 16:00-18:00 Th, Armory Building 116, In  
Person Term Based; Christopher Halvorson, Jonathan  
Carter ; 1 cr.  
64754 002 LAB, In Person Term Based; Christopher  
Halvorson, Jonathan Carter ; 1 cr.

### 1105 Air Force Heritage & Values II

(A-F or Audit; )

64740 001 LEC, 11:15-12:05 Th, Armory Building 105, In  
Person Term Based; Drew Wacker ; 1 cr.  
64741 002 LEC, 15:00-15:50 Th, Armory Building 105, In  
Person Term Based; Drew Wacker ; 1 cr.

### 1205 Team and Leadership Fundamentals II

(A-F or Audit; )

64743 001 LEC, 13:25-14:15 T, Armory Building 105, In  
Person Term Based; Cole Johnson ; 1 cr.  
64744 002 LEC, 10:10-11:00 T, Armory Building 105, In  
Person Term Based; Cole Johnson ; 1 cr.

### 3302 Leading People and Effective Communication II

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

64747 001 LEC, 05:45-06:35 M, Armory Building 202, In  
Person Term Based; 3 cr.  
64755 002 LEC, In Person Term Based; Christopher  
Halvorson ; 3 cr.

### 3402 National Security Policy and Leadership Responsibilities II

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

64748 001 LEC, 16:30-18:30 M, Armory Building 105, In  
Person Term Based; Jonathan Carter ; 3 cr.

## African Amer & African Studies (AFRO)

### 1011 Introduction to African American Studies

(Student Option; )

69548 001 LEC, 13:00-14:15 MW, Blegen Hall 115, In  
Person Term Based; Jonathan Hamilton ; 3 cr.

### 1131 Contemporary Issues in Africa

(A-F only; )

69108 001 DIS, In Person Term Based; Bula Wayessa ; 3 cr.

### 3015 Food Sovereignty in Africa

(A-F only; ENV,SOCS)

69109 001 DIS, In Person Term Based; Bula Wayessa ; 3 cr.

### 3108 Black Music: A History of Jazz

(Student Option; )

55511 301 LEC, Completely Online; Yolanda Williams ; 3 cr.

### 3135 Political Dynamics in the Horn of Africa

(Student Option; GP,SOCS)

68407 001 LEC, 09:45-11:00 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 POL 3135; Josef Woldense ; 3 cr.

### 3205 History of South Africa from 1910

(Student Option; )  
55245 001 LEC, 14:30-15:45 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 HIST 3435; Ntombizodwa Mpofo ; 3 cr.

### 3341 Black Geographies

(Student Option; )  
69020 001 LEC, 13:00-14:15 MW, Blegen Hall 235, In Person Term Based; Meets With: 001 GEOG 3341; Adam Bledsoe ; 3 cr.

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

(Student Option; )  
54224 001 LEC, 16:15-19:00 W, Blegen Hall 135, In Person Term Based; Keith Mayes ; 3 cr.

### 3578 Contemporary Sub-Saharan African Popular Art Forms

(A-F only; AH,TS,GP)  
68513 001 DIS, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Njeri Githire ; 3 cr.

### 3625W Women Writers of Africa and the African Diaspora

(A-F only; GP,WI,LITR)  
69541 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey School 60, In Person Term Based; Courtney Gildersleeve ; 3 cr.

### 3655 African-American Cinema

(Student Option; AH,DSJ)  
68743 001 LEC, 12:20-14:15 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 ARTH 3655001 ARTH 5655; Robert Silberman ; 3 cr.

### 3993 Directed Study

(Student Option; Prereq:instr consent, dept consent, college consent.)  
53371 001 IND, In Person Term Based; 1-5 cr.

### 4335 African American Politics

(Student Option; )  
69208 001 LEC, 14:30-15:45 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 POL 4335; Michael Minta ; 3 cr.

### 4406 Black Feminist Thought

(Student Option; )  
69527 001 DIS, 17:00-19:30 Th, Blegen Hall 240, In Person Term Based; Meets With: 001 GWSS 4406001 AFRO 5406; Zenzele Isoke ; 3 cr.

### 4991W Thesis Research and Writing

(A-F or Audit; Prereq: dept consentWI)  
54708 001 IND, In Person Term Based; Keith Mayes, Yuichiro Onishi ; 3 cr.

### 5406 Black Feminist Thought

(Student Option; )  
69528 001 DIS, 17:00-19:30 Th, Blegen Hall 240, In Person Term Based; Meets With: 001 GWSS 4406001 AFRO 4406; Zenzele Isoke ; 3 cr.

### 5993 Directed Study

(Student Option; Prereq: instr consent)  
53372 001 IND, In Person Term Based; 1-3 cr.

## Ag Educ, Comm & Mktg (AECM)

### 2421W Professional Communication for Agriculture, Food, and the Environment

(A-F or Audit; WI)  
57046 001 LEC, Completely Online; Rebecca Swenson ; 3 cr.  
57115 002 DIS, 09:35-10:25 F, Ruttan Hall B30, In Person Term Based; Rebecca Swenson ; 3 cr.  
57116 004 DIS, 10:40-11:30 F, Ruttan Hall B36, In Person Term Based; Rebecca Swenson ; 3 cr.  
57142 003 DIS, 10:40-11:30 F, Ruttan Hall B30, In Person Term Based; Rebecca Swenson ; 3 cr.  
57223 005 DIS, 11:45-12:35 F, Ruttan Hall B36, In Person Term Based; Rebecca Swenson ; 3 cr.

### 3431 Communicating Food, Agriculture & Environmental Science to the Public

(A-F or Audit; )

57160 001 LEC, 13:30-14:45 TTh, Ruttan Hall B35, In Person Term Based; Garrett Steede ; 3 cr.

### 3444 Layout and Design for Food, Agricultural and Natural Resource Sciences

(A-F only; )  
65842 001 LEC, 10:15-11:30 TTh, Lrng & Environmental Sci 230, In Person Term Based; Garrett Steede ; 3 cr.

### 3462 Podcasting for Science Literacy

(A-F only; )  
65732 001 LEC, 13:30-14:45 MW, Lrng & Environmental Sci 230, In Person Term Based; Troy McKay ; 3 cr.

### 3993 Directed Study in Agricultural Education, Communication & Marketing

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
57224 001 IND, Independent/Directed Study; Amy Smith ; 1-4 cr.

57225 002 IND, Independent/Directed Study; Rebecca Swenson ; 1-4 cr.

57226 003 IND, Independent/Directed Study; Troy McKay ; 1-4 cr.

57456 004 IND, Independent/Directed Study; Becky Haddad ; 1-4 cr.

### 4432 Advanced Video Production for Agriculture, Food and the Environment

(A-F only; Prereq: AECM 3452 or Instructor Consent)  
57233 001 LEC, 11:45-13:00 MW, Lrng & Environmental Sci 230, In Person Term Based; Troy McKay ; 3 cr.

### 5125W Designing Curriculum & Instruction for Agricultural Education

(A-F only; Prereq: Jr or Sr Ag Ed student, or Ag Ed MS IL student.WI)  
66635 002 LEC, Completely Online; Becky Haddad ; 3 cr.

### 5155 Agricultural Education Teaching Seminar

(A-F only; Prereqs: Jr or Sr Ag Ed Student or Ag Ed MS IL student)  
65739 001 LEC, In Person Term Based; Amy Smith ; 3 cr.

### 5280 Current Issues for the Beginning Agricultural Education Teacher

(Student Option; )  
57150 001 LEC, Completely Online; Amy Smith ; 1-3 cr.

### 5696 Teaching Internship

(A-F only; Prereq: Admission to initial licensure program)  
69118 002 FWK, 08:00-17:00 M, Ruttan Hall 119, 08:00-17:00 MTWThF, Lrng & Environmental Sci 220, In Person Term Based; Becky Haddad ; 2-10 cr.

### 5993 Directed Study in Agricultural Education and Extension

(Student Option; )  
56757 001 IND, 00:00-00:00 , , Independent/Directed Study; Amy Smith ; 1-4 cr.  
57060 002 IND, 00:00-00:00 , , Independent/Directed Study; Rebecca Swenson ; 1-4 cr.

### 5995 Integrating Paper--Master of Education: Agricultural and Extension Education

(A-F or Audit; )  
56707 001 IND, 00:00-00:00 , , Independent/Directed Study; Amy Smith ; 1-5 cr.

## Agronomy and Plant Genetics (AGRO)

### 1101 Biology of Plant Food Systems

(Student Option; BIOL)  
57095 001 LEC, 13:00-14:15 MW, Bruininks Hall 312, In Person Term Based; Ryan Merry ; 4 cr.  
57096 002 LAB, 10:30-12:30 T, Plant Growth Facility 132, In Person Term Based; Ryan Merry ; 4 cr.  
57097 003 LAB, 12:30-14:30 T, Plant Growth Facility 132, In Person Term Based; Ryan Merry ; 4 cr.  
57098 004 LAB, 14:30-16:30 T, Plant Growth Facility 132, In Person Term Based; Ryan Merry ; 4 cr.

### 3093 Directed Study

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
56779 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Smith ; 1-4 cr.

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

(Student Option; GP,WI)  
56730 001 LEC, 13:30-14:45 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ANSC 3203W; Mary Raeth, Mary Brakke ; 3 cr.

### 3660 Plant Genetic Resources: Identification, Conservation, and Utilization

(A-F only; Prereq: Introductory biology)  
68187 001 LEC, 12:50-13:40 MW, Plant Growth Facility 132, In Person Term Based; Robert Stupar ; 3 cr.  
68188 002 LAB, 13:45-15:35 W, Plant Growth Facility 132, In Person Term Based; Robert Stupar ; 3 cr.

### 4094W Undergraduate Directed Thesis Research

(S-N only; WI)  
57141 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Smith ; 2 cr.

### 4096W Professional Experience Program: Internships

(A-F only; WI)  
56746 001 LEC, 00:00-00:00 , No Room Required, In Person Term Based; Mary Brakke ; 2 cr.

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

(Student Option; Prereq: 4005, [Bio 3002 or equiv], Soil 2125, [Agro 2501 or Hort 1011])  
56905 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)  
56933 001 LEC, 10:15-11:30 MW, Alderman Hall 415, In Person Term Based; Nancy Jo Ehlike, Samantha Wells ; 4 cr.  
56934 002 DIS, 11:30-12:20 M, Alderman Hall 415, In Person Term Based; Nancy Jo Ehlike, Samantha Wells ; 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)  
57100 001 LEC, 11:45-13:00 MW, Borlaug Hall 306, In Person Term Based; Nicholas Jordan ; 3 cr.  
57101 003 DIS, 13:00-13:50 W, Borlaug Hall 306, In Person Term Based; Nicholas Jordan ; 3 cr.  
57102 002 DIS, 13:00-13:50 M, Borlaug Hall 306, In Person Term Based; Nicholas Jordan ; 3 cr.

### 5431 Applied Plant Genomics and Bioinformatics

(Student Option; Prereq: Grad student or [undergrad with genetics course])  
57195 001 LEC, 12:50-13:40 MW, Borlaug Hall 213, In Person Term Based; Candice Hirsch ; 3 cr.  
57196 002 LAB, 13:45-15:30 M, Borlaug Hall 213, In Person Term Based; Candice Hirsch ; 3 cr.

## American Indian Studies (AMIN)

### 1001 Introduction to American Indian & Indigenous Peoples

(Student Option; DSJ)  
55936 001 DIS, 16:30-17:45 TTh, Elliott Hall N119, In Person Term Based; Katherine Beane ; 3 cr.

### 1003 American Indians in Minnesota

(A-F or Audit; DSJ,HIS)  
54343 001 LEC, 09:45-11:00 MW, Nicholson Hall 35, In Person Term Based; Alex Ghebregzi ; 3 cr.  
54732 002 LEC, 11:15-12:30 MW, Nicholson Hall 35, In Person Term Based; Alex Ghebregzi ; 3 cr.  
55937 003 LEC, 13:00-14:15 MW, Anderson Hall 330, In Person Term Based; Brenda Child ; 3 cr.

### 3201W American Indian Literature

**(A-F only; DSJ,WI,LITR)**

53342 002 LEC, 16:00-17:15 TTh, Wulling Hall 240, In Person Term Based; Melissa Cundieff ; 3 cr.  
55538 001 LEC, 13:00-14:15 TTh, Wulling Hall 240, In Person Term Based; Scott Nelson ; 3 cr.

**3301 American Indian Philosophies****(Student Option; AH,DSJ)**

52934 001 LEC, 13:00-14:15 MW, Nicholson Hall 115, In Person Term Based; Meets With: 001 RELS 3321; Alex Ghebregzi ; 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, or with instructor approval.)**

55107 001 LEC, 12:20-13:10 MWF, Wulling Hall 240, In Person Term Based; Zoe Brown ; 3 cr.

**3871 American Indian History: Pre-Contact to 1830****(Student Option; DSJ,HIS)**

68961 001 LEC, 11:15-12:30 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 HIST 3871; David Aiona Chang (he, his, ,?oia) ; 3 cr.

**3920 American Indian Studies Topics****(A-F or Audit; )**

68890 001 LEC, 16:00-17:15 MW, Pillsbury Hall 214, In Person Term Based; Melissa Cundieff ; 3 cr.  
69546 002 LEC, 16:00-18:35 W, Twin Cities Remote, Completely Online; Nora Livesay ; 3 cr.

**4994 Directed Research****(Student Option; Prereq-instr consent, dept consent, college consent.)**

53375 001 IND, In Person Term Based; Nora Livesay ; 1-12 cr.  
56652 002 IND, In Person Term Based; 1-12 cr.  
56674 003 IND, In Person Term Based; Zoe Brown ; 1-12 cr.

**4996 Field Study****(Student Option; Prereq-instr consent, dept consent, college consent.)**

53090 001 FWK, In Person Term Based; 1-12 cr.

**5890 Readings in American Indian and Indigenous History****(Student Option; Prereq: Advanced undergrad with instr consent or grad student)**

69011 001 LEC, 13:25-15:20 T, Blegen Hall 125, In Person Term Based; Meets With: 001 HIST 5890; Jean O'Brien ; 3 cr.

**5991 Graduate Level Directed Studies****(A-F or Audit; Prereq: dept consent)**

69207 001 IND, In Person Term Based; Vicente Diaz ; 1-6 cr.

**American Sign Language (ASL)****1701 American Sign Language I****(Student Option; )**

51038 001 DIS, Completely Online; Jonathan Penny ; 5 cr.  
51039 002 DIS, Completely Online; Brittany Stanek ; 5 cr.  
51040 003 DIS, 08:30-10:25 MW, Twin Cities Remote, Completely Online; Sherri Rademacher ; 5 cr.  
51041 004 DIS, 10:40-12:35 MW, Twin Cities Remote, Completely Online; Bradley Hardin ; 5 cr.  
51042 005 DIS, 12:50-14:45 MW, Twin Cities Remote, Completely Online; Sherri Rademacher ; 5 cr.  
51043 006 DIS, 17:10-21:00 M, Twin Cities Remote, Completely Online; Shirley Applebee ; 5 cr.  
51044 007 DIS, 08:30-10:25 TTh, Twin Cities Remote, Completely Online; Shirley Applebee ; 5 cr.  
51567 009 DIS, 12:50-14:45 TTh, Twin Cities Remote, Completely Online; Shirley Applebee ; 5 cr.  
51952 008 DIS, 10:40-12:35 TTh, Twin Cities Remote, Completely Online; Bradley Neubarth ; 5 cr.

**1702 American Sign Language II****(Student Option; Prereq: 1701 with grade of at least [S or C-] or dept consent)**

51045 002 DIS, Completely Online; Brittany Stanek ; 5 cr.  
51046 003 DIS, 08:30-10:25 MW, Twin Cities Remote, Completely Online; Bradley Neubarth ; 5 cr.  
51047 004 DIS, 12:50-14:45 MW, Twin Cities Remote, Completely Online; Bradley Neubarth ; 5 cr.  
51048 005 DIS, 12:50-14:45 TTh, Twin Cities Remote, Completely Online; Nishani McCluskey ; 5 cr.  
51049 006 DIS, 15:00-16:55 TTh, Twin Cities Remote, Completely Online; Brittany Stanek ; 5 cr.

51267 001 DIS, Completely Online; Jonathan Penny ; 5 cr.  
68070 007 DIS, 17:10-21:00 T, Twin Cities Remote, Completely Online; Nishani McCluskey ; 5 cr.

**3703 American Sign Language III****(Student Option; Prereq: 1702 with grade of at least [S or C-] or dept consent)**

51050 001 DIS, 10:40-12:35 MW, Twin Cities Remote, Completely Online; Nishani McCluskey ; 5 cr.  
51051 002 DIS, 17:10-21:00 M, Twin Cities Remote, Completely Online; Brittany Stanek ; 5 cr.  
51052 003 DIS, 10:40-12:35 TTh, Twin Cities Remote, Completely Online; Bradley Hardin ; 5 cr.  
51268 004 DIS, 15:00-16:55 TTh, Twin Cities Remote, Completely Online; Bradley Hardin ; 5 cr.

**3704 American Sign Language IV****(Student Option; Prereq: 3703 with grade of at least [S or C-] or dept consent)**

51053 002 DIS, 10:40-12:35 MW, Twin Cities Remote, Completely Online; Shirley Applebee ; 5 cr.  
51054 003 DIS, 10:40-12:35 TTh, Twin Cities Remote, Completely Online; Sherri Rademacher ; 5 cr.  
51266 004 DIS, 12:50-14:45 TTh, Twin Cities Remote, Completely Online; Leah Dolezal ; 5 cr.  
51939 001 DIS, 08:30-10:25 MW, Twin Cities Remote, Completely Online; Leah Dolezal ; 5 cr.

**American Studies (AMST)****1012 Migrants, Refugees, Citizens, and Exiles: The U.S. on an Immigrant Planet****(Student Option; CIV)**

55039 001 LEC, 13:00-14:15 MW, Elliott Hall N647, In Person Term Based; David Karjanen ; 3 cr.

**1511 Americans Abroad: Rethinking Travel, Culture, & Empire****(Student Option; GP,HIS)**

55527 001 LEC, 11:15-12:30 TTh, Wulling Hall 240, In Person Term Based; Bianet Castellanos ; 3 cr.

**2011 The United States since September 11****(Student Option; CIV,HIS)**

54564 001 LEC, 11:15-12:30 TTh, 10 Church Street SE 100, In Person Term Based; Kale Fajardo ; 3 cr.

**2031 Chasing the American Dream: Economic Opportunity & Inequality in the U.S.****(Student Option; DSJ,HIS)**

55088 001 LEC, 16:00-17:15 MW, Rapson Hall 43, In Person Term Based; Martin Manalansan ; 3 cr.  
66441 002 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Brenda Child ; 3 cr.

**3112 Prince, Porn, and Public Space: The Cultural Politics of the Twin Cities in the 1980s****(Student Option; DSJ,HIS)**

55180 001 LEC, 14:30-15:45 MW, Fraser Hall 102, In Person Term Based; Elliott Powell ; 3 cr.

**3114 America in International Perspective****(Student Option; DSJ)**

66445 001 LEC, 09:45-11:00 TTh, Wulling Hall 240, In Person Term Based; David Karjanen ; 3 cr.

**3253W American Popular Culture and Politics: 1940 to the Present****(Student Option; CIV,WI,HIS)**

53983 001 LEC, 11:15-12:30 MW, Anderson Hall 310, In Person Term Based; Martin Manalansan ; 4 cr.  
54137 002 DIS, 13:25-14:15 T, Burton Hall 125, In Person Term Based; Martin Manalansan ; 4 cr.  
54138 004 DIS, 14:30-15:20 T, Kolthoff Hall 133, In Person Term Based; Martin Manalansan ; 4 cr.  
54139 008 DIS, 13:25-14:15 Th, Pillsbury Hall 211, In Person Term Based; Martin Manalansan ; 4 cr.  
54140 009 DIS, 14:30-15:15 Th, Kolthoff Hall 133, In Person Term Based; Martin Manalansan ; 4 cr.

**3896 Internship for Academic Credit****(Student Option; )**

66448 001 IND, Independent/Directed Study; David Karjanen ; 1-4 cr.

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

53062 001 IND, 00:00-00:00 , , In Person Term Based; 1-9 cr.  
56653 002 IND, In Person Term Based; Elliott Powell ; 1-9 cr.  
56685 003 IND, In Person Term Based; Kevin Murphy ; 1-9 cr.  
56692 004 IND, Independent/Directed Study; David Karjanen ; 1-9 cr.

**4101 Gender, Sexuality, and Politics in America****(Student Option; DSJ,HIS)**

66449 001 LEC, 11:15-12:30 TTh, Burton Hall 125, In Person Term Based; Jennifer Pierce ; 3 cr.

**4962W Proseminar in American Studies****(Student Option No Audit; Prereq: AmSt sr or instr consentWI)**

53869 001 LEC, 13:00-14:15 MW, Appleby Hall 226, In Person Term Based; Jennifer Pierce ; 3 cr.

**Anatomy (ANAT)****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)**

62609 001 LEC, 09:05-09:55 MWF, Mayo Bldg & Additions Auditori, 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)**

62592 001 LAB, 10:10-12:05 M, Jackson Hall 5-151, In Person Term Based; Anthony Weinhaus ; 2 cr.  
62593 002 LAB, 12:20-14:15 M, Jackson Hall 5-151, In Person Term Based; 2 cr.  
62594 003 LAB, 14:30-16:25 M, Jackson Hall 5-151, In Person Term Based; 2 cr.  
62595 004 LAB, 10:10-12:05 T, Jackson Hall 5-151, In Person Term Based; 2 cr.  
62596 005 LAB, 12:20-14:15 T, Jackson Hall 5-151, In Person Term Based; 2 cr.  
62597 006 LAB, 14:30-16:25 T, Jackson Hall 5-151, In Person Term Based; Anthony Weinhaus ; 2 cr.  
62598 007 LAB, 10:10-12:05 W, Jackson Hall 5-151, In Person Term Based; Anthony Weinhaus ; 2 cr.  
62599 008 LAB, 12:20-14:15 W, Jackson Hall 5-151, In Person Term Based; 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)**

62623 001 LAB, 09:05-12:05 Th, AHC ROOM TBA, 10:10-12:05 M, Jackson Hall 5-151, In Person Term Based; Anthony Weinhaus ; 3 cr.  
62624 002 LAB, 09:05-12:05 Th, AHC ROOM TBA, 12:20-14:15 M, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62625 003 LAB, 09:05-12:05 Th, AHC ROOM TBA, 14:30-16:25 M, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62626 004 LAB, 09:05-12:05 Th, AHC ROOM TBA, 10:10-12:05 T, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62627 005 LAB, 09:05-12:05 Th, AHC ROOM TBA, 12:20-14:15 T, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62628 006 LAB, 09:05-12:05 Th, AHC ROOM TBA, 14:30-16:25 T, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62629 007 LAB, 09:05-12:05 Th, AHC ROOM TBA, 10:10-12:05 W, Jackson Hall 5-151, In Person Term Based; 3 cr.  
62630 008 LAB, 09:05-12:05 Th, AHC ROOM TBA, 12:20-14:15 W, Jackson Hall 5-151, In Person Term Based; 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)**

62600 001 LEC, 16:30-17:45 TTh, Molecular Cellular Biol 3-120, 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)

62601 001 LAB, 18:00-20:00 M, Jackson Hall 5-151, In Person Term Based; Anthony Weinhaus ; 2 cr.  
62602 002 LAB, 18:00-20:00 W, Jackson Hall 5-151, In Person Term Based; 2 cr.  
62603 003 LAB, 18:00-20:00 Th, Jackson Hall 5-151, In Person Term Based; 2 cr.

**4900 Directed Studies in Anatomy**

(S-N only; Prereq: instr consent)

62604 001 IND, 00:00-00:00 , , In Person Term Based; Anthony Weinhaus ; 1-6 cr.

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

(A-F or Audit; Prereq: Advanced Clinical Physiology I for Nurse Anesthetists)

62443 001 LEC, In Person Term Based; 3 cr.

**Animal Science (ANSC)****1011 Animals and Society**

(Student Option; CIV)

57241 001 LEC, Completely Online; Beth Ventura ; 3 cr.

**1101 Introductory Animal Science**

(Student Option; )

56752 001 LEC, 08:30-09:20 MWF, Ruttan Hall B45, In Person Term Based; Anthony Seykora ; 4 cr.  
56753 002 LAB, 10:40-12:35 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.  
56754 003 LAB, 12:50-14:45 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.

**1201 Backyard Chickens - Science and Practice**

(Student Option; )

57156 001 LEC, Completely Online; Anup Kollanoor Johnny ; 3 cr.

**1205 Animal Handling - Livestock**

(A-F only; )

57157 001 LAB, 15:00-17:00 F, No Room Required, In Person Term Based; Anthony Seykora ; 1 cr.

**1403 Companion Animal Nutrition and Care**

(Student Option; )

56763 001 LEC, Completely Online; Marshall Stern, Rielle Swanson ; 3 cr.

**3007 Equine Nutrition**

(Student Option; Prereq: 2401)

66464 001 LEC, 10:15-11:30 Th, Ruttan Hall B36, Partially Online; Mary Raeth ; 3 cr.

**3092 Undergraduate Research in Animal Science**

(A-F only; )

57040 001 IND, Independent/Directed Study; 1-3 cr.

**3141 Advanced Dairy Judging**

(Student Option; Prereq: 2011 or instr consent)

56818 001 LAB, 15:00-17:30 W, Haecker Hall 265G, In Person Term Based; Les Hansen ; 1 cr.

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

(Student Option; GP,WI)

56938 001 LEC, 13:30-14:45 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 AGRO 3203W; Mary Raeth, Mary Brakke ; 3 cr.

**3301 Human and Animal Physiology**

(Student Option; Prereq: Must have taken a Biology and Chemistry course.)

57049 001 LEC, 12:50-13:40 MWF, Ruttan Hall B45, 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)

57070 001 LAB, 17:10-19:05 Th, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.  
57121 002 LAB, 10:40-12:35 W, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.  
57122 003 LAB, 10:40-12:35 M, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.  
69206 004 LAB, 12:50-14:45 Th, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.  
69385 005 LAB, 10:40-12:45 F, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.  
69603 006 LAB, 17:00-18:55 T, Animal Science / Vet Med 448, In Person Term Based; Melissa Palmer ; 1 cr.

**3307 Artificial Insemination Techniques**

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

56898 001 LAB, In Person Term Based; Anthony Seykora ; 1 cr.

**3511 Animal Growth and Development**

(Student Option; Prereq: College-level biology course)

66027 001 LEC, 10:15-11:30 TTh, Ruttan Hall B22, In Person Term Based; Kahina Ghanem ; 3 cr.

**3555 Applied Livestock and Poultry**

Microbiology

(A-F only; Prereq: Instructor Permission )

67788 001 LAB, 11:00-13:00 Th, St. Paul Campus Room TBA, 10:00-12:00 W, St. Paul Campus Room TBA, In Person Term Based; Anup Kollanoor Johnny ; 2 cr.

**3609 Business Planning for Animal**

Enterprises

(Student Option; )

57182 001 LEC, 13:55-15:55 F, Haecker Hall 205, In Person Term Based; Samuel Baidoo, Anup Kollanoor Johnny ; 2 cr.

**4009W Undergraduate Research Thesis**

(A-F or Audit; Prereq: Jr or sr major in AnSc, instr consentWI)

56776 001 IND, 00:00-00:00 , , In Person Term Based; Laura Mauro ; 1-6 cr.  
57440 002 IND, Independent/Directed Study; Andres Gomez ; 1-6 cr.  
57488 003 IND, Independent/Directed Study; Anup Kollanoor Johnny ; 1-6 cr.

**4011 Dairy Cattle Genetics**

(Student Option; Prereq: (prereq 3221, previous or current registration in 4604, at least junior status))

56817 001 LEC, 11:45-12:35 MWF, Haecker Hall 205, In Person Term Based; Les Hansen ; 3 cr.

**4093 Tutorial in Animal Science**

(Student Option; Prereq: instr consent)

56765 001 IND, 00:00-00:00 , , In Person Term Based; Marcia Endres ; 1-4 cr.  
57438 002 IND, Independent/Directed Study; Kyle Rozeboom ; 1-4 cr.

**4096 Professional Experience Program: Internship**

(S-N only; Prereq: CFANS undergrad, instr consent, agreement form)

56764 001 FWK, 00:00-00:00 , , In Person Term Based; Mary Raeth ; 1-3 cr.  
57016 002 FWK, 00:00-00:00 , , Independent/Directed Study; Brian Crooker ; 1-3 cr.  
57017 003 FWK, Independent/Directed Study; Kyle Rozeboom ; 1-3 cr.  
57018 004 FWK, Independent/Directed Study; Gerald Shurson ; 1-3 cr.  
57019 005 FWK, 00:00-00:00 , , Independent/Directed Study; Anup Kollanoor Johnny ; 1-3 cr.  
57020 006 FWK, 00:00-00:00 , , Independent/Directed Study; Les Hansen ; 1-3 cr.  
57021 007 FWK, 00:00-00:00 , , Independent/Directed Study; Marcia Hathaway ; 1-3 cr.  
57022 008 FWK, 00:00-00:00 , , Independent/Directed Study; Scott O'Grady ; 1-3 cr.  
57023 009 FWK, 00:00-00:00 , , Independent/Directed Study; Beth Ventura ; 1-3 cr.  
57024 010 FWK, 00:00-00:00 , , Independent/Directed Study; Laura Mauro ; 1-3 cr.  
57025 011 FWK, Independent/Directed Study; Melissa Palmer ; 1-3 cr.  
57026 012 FWK, 00:00-00:00 , , Independent/Directed Study; Anthony Seykora ; 1-3 cr.  
57027 013 FWK, 00:00-00:00 , , Independent/Directed Study; ; 1-3 cr.  
57028 014 FWK, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

57029 015 FWK, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

57030 016 FWK, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

57035 017 FWK, Independent/Directed Study; 1-3 cr.

57045 018 FWK, Independent/Directed Study; 1-3 cr.

57056 019 FWK, Independent/Directed Study; 1-3 cr.

**4099 Special Workshop in Animal Science**

(Student Option; Prereq: instr consent)

57412 001 IND, Independent/Directed Study; Anthony Seykora ; 1-4 cr.  
57437 002 IND, Independent/Directed Study; Kyle Rozeboom ; 1-4 cr.  
57472 003 IND, In Person Term Based; Alfredo DiCostanzo ; 1-4 cr.

**4403 Ruminant Nutrition of Production & Exotic Animals**

(Student Option; )

56762 001 LEC, 10:00-11:15 T, Haecker Hall 205, Partially Online; Marshall Stern ; 3 cr.

**4404 Applied Dairy Nutrition**

(Student Option; Prereq: AnSc 4403 recommended)

68983 001 LEC, 12:50-14:40 Th, Haecker Hall 430, In Person Term Based; Isaac Salfer ; 2 cr.

**4602 Sheep Production Systems**

Management

(Student Option; )

57037 001 LEC, 12:50-13:40 MWF, Haecker Hall 205, In Person Term Based; Kyle Rozeboom ; 4 cr.  
57038 002 LAB, 13:50-15:30 W, Ruttan Hall B42, In Person Term Based; Kyle Rozeboom ; 4 cr.

**4604 Dairy Production Systems**

Management

(Student Option; Prereq: AnSc 1101, AnSc 2401)

56758 001 LEC, 16:05-17:50 M, Haecker Hall 205, In Person Term Based; Marcia Endres ; 4 cr.  
56759 002 LAB, 13:05-17:50 T, Haecker Hall 365, In Person Term Based; Marcia Endres ; 4 cr.

**5091 Research Proposals: From Ideas to Strategic Plans**

(Student Option; Prereq: There are no prerequisites, however, having taken ANSC 3011 Statistics for Animal Science is desirable.)

67649 001 LEC, 13:30-14:45 TTh, Haecker Hall 205, In Person Term Based; Meets With: 001 CFAN 3091V; Milena Saqui-Salces ; 3 cr.

**5555 Applied Livestock and Poultry**

Microbiology

(A-F only; )

67789 001 LAB, 11:00-13:00 Th, St. Paul Campus Room TBA, 10:00-12:00 W, St. Paul Campus Room TBA, In Person Term Based; Anup Kollanoor Johnny ; 2 cr.

**5626 Nutritional Physiology**

(A-F only; )

57135 001 LEC, 08:45-10:00 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 NUTR 5626; Milena Saqui-Salces ; 3 cr.

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

(Student Option; BIOL)

52776 001 LEC, 11:15-12:30 TTh, Willey Hall 175, In Person Term Based; Kieran McNulty ; 4 cr.  
52777 003 LAB, 11:15-13:15 M, Blegen Hall 345, In Person Term Based; 4 cr.  
52778 004 LAB, 13:30-15:30 M, Blegen Hall 345, In Person Term Based; 4 cr.  
52779 005 LAB, 15:45-17:45 M, Blegen Hall 345, In Person Term Based; 4 cr.  
52780 006 LAB, 08:45-10:45 T, Blegen Hall 345, In Person Term Based; 4 cr.  
52781 007 LAB, 13:00-15:00 T, Blegen Hall 345, In Person Term Based; 4 cr.  
52783 009 LAB, 09:00-11:00 W, Blegen Hall 345, In Person Term Based; 4 cr.  
52784 010 LAB, 11:15-13:15 W, Blegen Hall 345, In Person Term Based; 4 cr.  
52785 011 LAB, 13:30-15:30 W, Blegen Hall 345, In Person Term Based; 4 cr.  
52786 013 LAB, 13:00-15:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.

53073 002 LAB, 09:00-11:00 M, Blegen Hall 345, In Person Term Based; 4 cr.  
 54873 012 LAB, 09:05-11:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.  
 67778 020 LEC, 18:00-21:00 W, Blegen Hall 155, In Person Term Based; Maud Mougnot; 4 cr.  
 67779 021 LAB, 18:00-20:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.  
 67780 022 LAB, 18:00-20:00 M, Blegen Hall 345, In Person Term Based; 4 cr.

### 1003V Understanding Cultures: Honors (A-F only; Prereq: HonorsGP,WI,SOCS)

54322 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ANTH 1003W; Hoon Song; 4 cr.  
 54615 002 DIS, 11:15-12:05 Th, Twin Cities Remote, Completely Online; Hoon Song; 4 cr.

### 1003W Understanding Cultures (Student Option; GP,WI,SOCS)

53386 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ANTH 1003V; Hoon Song; 4 cr.  
 54609 002 DIS, 14:30-15:20 M, Blegen Hall 205, In Person Term Based; 4 cr.  
 54610 003 DIS, 11:15-12:05 T, Twin Cities Remote, Completely Online; 4 cr.  
 54611 004 DIS, 11:15-12:05 T, Blegen Hall 225, In Person Term Based; 4 cr.  
 54612 005 DIS, 14:30-15:20 T, Twin Cities Remote, Completely Online; 4 cr.  
 54613 006 DIS, 10:10-11:00 W, Twin Cities Remote, Completely Online; 4 cr.  
 66892 007 DIS, 10:10-11:00 W, Hubert H. Humphrey School 20, In Person Term Based; 4 cr.  
 66893 008 DIS, 11:15-12:05 Th, Twin Cities Remote, Completely Online; 4 cr.  
 66894 009 DIS, 11:15-12:05 Th, Blegen Hall 225, In Person Term Based; 4 cr.  
 67781 020 LEC, 18:00-21:10 T, Blegen Hall 130, In Person Term Based; Peter Johnson; 4 cr.

### 1911W Changing Human Adaptations (A-F only; ENV,WI)

66239 001 DIS, 11:15-12:30 TTh, Hubert H. Humphrey School 50A, In Person Term Based; Martha Tappen; 3 cr.

### 3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology (A-F or Audit; )

54321 001 LEC, 09:45-11:00 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 EEB 3002; Michael Wilson; 4 cr.  
 54350 002 LAB, 10:10-11:00 M, Blegen Hall 318, In Person Term Based; Meets With: 002 EEB 3002; 4 cr.  
 54351 003 LAB, 11:15-12:05 T, Blegen Hall 318, In Person Term Based; Meets With: 003 EEB 3002; 4 cr.  
 54352 004 LAB, 14:30-15:20 T, Blegen Hall 318, In Person Term Based; Meets With: 004 EEB 3002; 4 cr.  
 54353 005 LAB, 11:15-12:05 Th, Blegen Hall 318, In Person Term Based; Meets With: 005 EEB 3002; 4 cr.

### 3003 Cultural Anthropology (Student Option; )

54605 001 LEC, 11:15-12:30 MW, Blegen Hall 150, In Person Term Based; David Lipset; 3 cr.

### 3027W Archaeology of Prehistoric Europe (Student Option; HIS,WI)

66196 001 LEC, 09:45-11:00 TTh, Anderson Hall 350, In Person Term Based; Meets With: 001 ANTH 5027W001 HIST 3067W; Peter Wells; 3 cr.

### 3028 Historical Archaeology (A-F or Audit; )

68413 001 LEC, 13:00-14:15 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 5028; Sophie Minor; 3 cr.

### 3206 Sex, Murder, and Bodily Discharges: Purity and Pollution in the Ancient World (Student Option No Audit; )

55638 001 DIS, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 MEST 3206001 RELS 3206001 CNRC 3206001 JWST 3206; Patricia Ahearne-Kroll; 3 cr.

### 3242W Hero, Savage, or Equal? Representations of NonWestern Peoples in the Movies (A-F only; WI)

66142 001 LEC, 13:00-16:00 W, Blegen Hall 220, 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)

54866 001 LEC, 18:00-20:30 T, Willey Hall 125, In Person Term Based; Karen-Sue Taussig; 3 cr.

### 3631 Islam in America: A History of the Present (A-F or Audit; )

68286 001 DIS, 17:00-19:30 M, Pillsbury Hall 311, In Person Term Based; Meets With: 001 RELS 3631; Aisha Ghani; 3 cr.

### 3913 Capstone Project Planning

(A-F only; Prereq: [Jr or sr] anth major, instr consent)

52789 001 IND, 00:00-00:00 , In Person Term Based; Erin Durban; 1 cr.  
 54404 003 IND, 00:00-00:00 , In Person Term Based; Serra Hakyemez; 1 cr.  
 54405 004 IND, 00:00-00:00 , In Person Term Based; Kat Hayes; 1 cr.  
 54406 005 IND, 00:00-00:00 , In Person Term Based; Karen Ho; 1 cr.  
 54407 006 IND, 00:00-00:00 , In Person Term Based; David Lipset; 1 cr.  
 54408 008 IND, 00:00-00:00 , In Person Term Based; Kieran McNulty; 1 cr.  
 54409 009 IND, 00:00-00:00 , In Person Term Based; Gilliane Monnier; 1 cr.  
 54410 010 IND, 00:00-00:00 , In Person Term Based; Maria Nieves Colon; 1 cr.  
 54411 011 IND, 00:00-00:00 , In Person Term Based; Gloria Goodwin Raheja; 1 cr.  
 54412 012 IND, 00:00-00:00 , In Person Term Based; Hoon Song; 1 cr.  
 54413 013 IND, 00:00-00:00 , In Person Term Based; Martha Tappen; 1 cr.  
 54414 014 IND, 00:00-00:00 , In Person Term Based; Karen-Sue Taussig; 1 cr.  
 54415 015 IND, 00:00-00:00 , In Person Term Based; Gilbert Tostevin; 1 cr.  
 54416 016 IND, 00:00-00:00 , In Person Term Based; David Valentine; 1 cr.  
 54417 017 IND, 00:00-00:00 , In Person Term Based; Peter Wells; 1 cr.  
 54418 018 IND, 00:00-00:00 , In Person Term Based; Michael Wilson; 1 cr.  
 55401 002 IND, In Person Term Based; Aisha Ghani; 1 cr.  
 55402 007 IND, In Person Term Based; Stuart McLean; 1 cr.  
 55403 019 IND, In Person Term Based; 1 cr.  
 55956 020 IND, In Person Term Based; 1 cr.

### 3980 Topics in Anthropology

(Student Option; )

68258 001 LEC, 11:15-12:30 TTh, West Bank Skyway 20, In Person Term Based; Meets With: 001 ANTH 5980; Maria Nieves Colon; 3 cr.

### 4003W Contemporary Perspectives in Cultural Anthropology

(A-F or Audit; Prereq: [1003 or 1005], or instr consentWI)

68113 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Gloria Goodwin Raheja; 3 cr.

### 4007 Laboratory Techniques in Archaeology

(Student Option; Prereq: instr consent)

53874 001 FWK, 00:00-00:00 , In Person Term Based; Matt Edling; 1-4 cr.

### 4013 Capstone Project Writing Seminar

(A-F only; Prereq: sr major, instr consent)

66237 001 DIS, 09:30-12:00 F, Twin Cities Remote, Completely Online; Meets With: 001 ANTH 4013H; Gloria Goodwin Raheja; 3 cr.

### 4013H Capstone Project Writing Seminar

(A-F only; Prereq: Sr major, honors student, instr consent)

66238 001 DIS, 09:30-12:00 F, Twin Cities Remote, Completely Online; Meets With: 001 ANTH 4013; Gloria Goodwin Raheja; 3 cr.

### 4019 Symbolic Anthropology

(Student Option; Prereq: 1003 or 1005 or grad student or instr consent)

66198 001 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Hoon Song; 3 cr.

### 4043 Romans, Anglo-Saxons and Vikings: Archaeology of Northern Europe

(Student Option; )

55051 001 LEC, 14:30-17:00 T, Blegen Hall 115, In Person Term Based; Meets With: 001 ANTH 8510001 MEST 4043; Peter Wells; 3 cr.

### 4093 In-Class Capstone Project

(A-F only; )

56192 001 IND, In Person Term Based; Erin Durban; 1 cr.  
 56193 002 IND, In Person Term Based; Aisha Ghani; 1 cr.  
 56194 003 IND, In Person Term Based; Serra Hakyemez; 1 cr.  
 56195 004 IND, In Person Term Based; Kat Hayes; 1 cr.  
 56196 005 IND, In Person Term Based; Karen Ho; 1 cr.  
 56197 006 IND, In Person Term Based; David Lipset; 1 cr.  
 56198 007 IND, In Person Term Based; Stuart McLean; 1 cr.  
 56199 008 IND, In Person Term Based; Kieran McNulty; 1 cr.  
 56200 009 IND, In Person Term Based; Gilliane Monnier; 1 cr.  
 56201 010 IND, In Person Term Based; Maria Nieves Colon; 1 cr.  
 56202 011 IND, In Person Term Based; Gloria Goodwin Raheja; 1 cr.  
 56203 012 IND, In Person Term Based; Hoon Song; 1 cr.  
 56204 013 IND, In Person Term Based; Martha Tappen; 1 cr.  
 56205 014 IND, In Person Term Based; Karen-Sue Taussig; 1 cr.  
 56206 015 IND, In Person Term Based; Gilbert Tostevin; 1 cr.  
 56207 016 IND, In Person Term Based; David Valentine; 1 cr.  
 56208 017 IND, In Person Term Based; Peter Wells; 1 cr.  
 56209 018 IND, In Person Term Based; Michael Wilson; 1 cr.  
 56210 019 IND, In Person Term Based; 1 cr.  
 56636 020 IND, In Person Term Based; 1 cr.

### 4991 Independent Study

(Student Option; Prereq: instr consent)

54419 003 IND, 00:00-00:00 , In Person Term Based; Serra Hakyemez; 1-6 cr.  
 54420 004 IND, 00:00-00:00 , In Person Term Based; Kat Hayes; 1-6 cr.  
 54421 005 IND, 00:00-00:00 , In Person Term Based; Karen Ho; 1-6 cr.  
 54422 006 IND, 00:00-00:00 , In Person Term Based; David Lipset; 1-6 cr.  
 54423 008 IND, 00:00-00:00 , In Person Term Based; Kieran McNulty; 1-6 cr.  
 54424 009 IND, 00:00-00:00 , In Person Term Based; Gilliane Monnier; 1-6 cr.  
 54425 010 IND, 00:00-00:00 , In Person Term Based; Maria Nieves Colon; 1-6 cr.  
 54426 011 IND, 00:00-00:00 , In Person Term Based; Gloria Goodwin Raheja; 1-6 cr.  
 54427 012 IND, 00:00-00:00 , In Person Term Based; Hoon Song; 1-6 cr.  
 54428 013 IND, 00:00-00:00 , In Person Term Based; Martha Tappen; 1-6 cr.  
 54429 014 IND, 00:00-00:00 , In Person Term Based; Karen-Sue Taussig; 1-6 cr.  
 54430 015 IND, 00:00-00:00 , In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 54431 016 IND, 00:00-00:00 , In Person Term Based; Gilbert Tostevin; 1-6 cr.  
 54432 017 IND, 00:00-00:00 , In Person Term Based; Peter Wells; 1-6 cr.  
 54433 018 IND, 00:00-00:00 , In Person Term Based; Michael Wilson; 1-6 cr.  
 55405 001 IND, In Person Term Based; Erin Durban; 1-6 cr.  
 55406 002 IND, In Person Term Based; Aisha Ghani; 1-6 cr.  
 55407 007 IND, In Person Term Based; Stuart McLean; 1-6 cr.  
 55408 019 IND, In Person Term Based; 1-6 cr.  
 55974 020 IND, In Person Term Based; 1-6 cr.

### 4992 Directed Readings

(Student Option; Prereq: instr consent)

52790 001 IND, 00:00-00:00 , In Person Term Based; Erin Durban; 1-6 cr.  
 54434 003 IND, 00:00-00:00 , In Person Term Based; Serra Hakyemez; 1-6 cr.  
 54435 004 IND, 00:00-00:00 , In Person Term Based; Kat Hayes; 1-6 cr.  
 54436 005 IND, 00:00-00:00 , In Person Term Based; Karen Ho; 1-6 cr.  
 54437 006 IND, 00:00-00:00 , In Person Term Based; David Lipset; 1-6 cr.  
 54438 008 IND, 00:00-00:00 , In Person Term Based; Kieran McNulty; 1-6 cr.  
 54439 009 IND, 00:00-00:00 , In Person Term Based; Gilliane Monnier; 1-6 cr.  
 54440 010 IND, 00:00-00:00 , In Person Term Based; Maria Nieves Colon; 1-6 cr.  
 54441 011 IND, 00:00-00:00 , In Person Term Based; Gloria Goodwin Raheja; 1-6 cr.  
 54442 012 IND, 00:00-00:00 , In Person Term Based; Hoon Song; 1-6 cr.

54443 013 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 54444 014 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 54445 015 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 54446 016 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 54447 017 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 54448 018 IND, 00:00-00:00 , , In Person Term Based; Michael Wilson ; 1-6 cr.  
 55409 002 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.  
 55410 007 IND, In Person Term Based; Stuart McLean ; 1-6 cr.  
 55411 019 IND, In Person Term Based; 1-6 cr.  
 55975 020 IND, In Person Term Based; 1-6 cr.

#### 4993 Directed Study

(Student Option; Prereq: instr consent)  
 52791 001 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 54449 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 54450 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 54451 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 54452 006 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 54453 008 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.  
 54454 009 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 54455 010 IND, 00:00-00:00 , , In Person Term Based; Maria Nieves Colon ; 1-6 cr.  
 54456 011 IND, 00:00-00:00 , , In Person Term Based; Gloria Goodwin Raheja ; 1-6 cr.  
 54457 012 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 54458 013 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 54459 014 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 54460 015 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 54461 016 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 54462 017 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 54463 018 IND, 00:00-00:00 , , In Person Term Based; Michael Wilson ; 1-6 cr.  
 55412 002 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.  
 55413 007 IND, In Person Term Based; Stuart McLean ; 1-6 cr.  
 55414 019 IND, In Person Term Based; 1-6 cr.  
 55976 020 IND, In Person Term Based; 1-6 cr.

#### 4994W Directed Research

(Student Option; Prereq: instr consentWI)  
 52792 001 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 54464 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 54465 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 54466 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 54467 006 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 54468 008 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.  
 54469 009 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 54470 010 IND, 00:00-00:00 , , In Person Term Based; Maria Nieves Colon ; 1-6 cr.  
 54471 011 IND, 00:00-00:00 , , In Person Term Based; Gloria Goodwin Raheja ; 1-6 cr.  
 54472 012 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 54473 013 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 54474 014 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 54475 015 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 54476 016 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 54477 017 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 54478 018 IND, 00:00-00:00 , , In Person Term Based; Michael Wilson ; 1-6 cr.  
 55415 002 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.  
 55416 007 IND, In Person Term Based; Stuart McLean ; 1-6 cr.  
 55417 019 IND, In Person Term Based; 1-6 cr.

55977 020 IND, In Person Term Based; 1-6 cr.

#### 5027W Archaeology of Prehistoric Europe

(Student Option; HIS,WI)  
 66197 001 LEC, 09:45-11:00 TTh, Anderson Hall 350, In Person Term Based; Meets With: 001 ANTH 3027W001 HIST 3067W; Peter Wells ; 3 cr.

#### 5028 Historical Archaeology

(A-F or Audit; )  
 68414 001 LEC, 13:00-14:15 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 3028; Sophie Minor ; 3 cr.

#### 5221 Anthropology of Material Culture

(A-F or Audit; )  
 68468 001 LEC, 13:00-14:15 MW, Blegen Hall 318, In Person Term Based; Annie Melton ; 3 cr.

#### 5244 Interpreting Ancient Bone

(A-F or Audit; )  
 66241 001 LAB, 09:30-12:00 W, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 8244; Martha Tappen ; 3 cr.

#### 5442 Archaeology of the British Isles

(A-F only; )  
 69674 001 LEC, 14:00-16:30 T, , In Person Term Based; Peter Wells ; 3 cr.

#### 5448 Applied Heritage Management

(A-F only; )  
 55624 001 LEC, 14:30-17:00 M, Blegen Hall 260, In Person Term Based; David Mather ; 3 cr.

#### 5980 Topics in Anthropology

(Student Option; )  
 68259 001 LEC, 11:15-12:30 TTh, West Bank Skyway 20, In Person Term Based; Meets With: 001 ANTH 3980; Maria Nieves Colon ; 3 cr.

### Apparel Design (ADES)

#### 2196 Work Experience in Apparel Design

(S-N only; Prereq: Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent)  
 50119 001 FWK, Independent/Directed Study; Missy Bye ; 1-4 cr.  
 50120 003 FWK, Independent/Directed Study; Lucy Dunne ; 1-4 cr.  
 50161 004 FWK, Independent/Directed Study; Marilyn DeLong ; 1-4 cr.  
 50395 005 FWK, In Person Term Based; Brad Holschuh ; 1-4 cr.  
 50396 002 FWK, In Person Term Based; Linsey Griffin ; 1-4 cr.

#### 2211 Fashion Illustration and Portfolio Development

(A-F or Audit; )  
 50338 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)  
 50425 001 LAB, 08:45-10:00 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])  
 50118 001 LEC, 12:50-13:40 MW, McNeal Hall 310, In Person Term Based; 4 cr.  
 50467 002 LAB, 13:50-15:45 MW, , In Person Term Based; 4 cr.

#### 3196 Field Study: National or International

(A-F or Audit; Prereq: instr consent)  
 50378 001 FWK, In Person Term Based; 1-10 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)  
 50295 001 LAB, 08:30-11:30 TTh, McNeal Hall 205, In Person Term Based; 4 cr.

#### 3224W Apparel Design Studio IV

(A-F or Audit; Prereq: apparel design majorWI)

50121 001 LAB, 09:35-12:35 MW, McNeal Hall 205, In Person Term Based; Meets With: 001 APST 5224; 4 cr.

#### 3225 Apparel Design Research

(A-F only; Prereq: 3324 or concurrent registration is required (or allowed) in DHA 3224)  
 50122 001 LEC, 15:00-16:55 Th, McNeal Hall 310, In Person Term Based; 1 cr.

#### 4121 History of Fashion, 19th to 21st Century

(A-F or Audit; )  
 50123 001 LEC, Completely Online; 4 cr.  
 65767 002 LEC, 11:45-13:40 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 APST 5121; 4 cr.

#### 4160H Honors Capstone Project

(A-F only; Prereq: DHA honors)  
 50124 001 LEC, In Person Term Based; Missy Bye ; 2 cr.  
 50125 003 LEC, In Person Term Based; Lucy Dunne ; 2 cr.  
 50160 004 LEC, In Person Term Based; Marilyn DeLong ; 2 cr.

#### 4193 Directed Study in Apparel Design

(A-F or Audit; Prereq: Undergrad, instr consent)  
 50126 001 IND, Independent/Directed Study; Missy Bye ; 1-4 cr.  
 50127 003 IND, Independent/Directed Study; Lucy Dunne ; 1-4 cr.  
 50279 004 IND, Independent/Directed Study; Marilyn DeLong ; 1-4 cr.  
 50382 002 IND, In Person Term Based; Linsey Griffin ; 1-4 cr.  
 50383 005 IND, In Person Term Based; Brad Holschuh ; 1-4 cr.

#### 4196 Internship in Apparel Design

(S-N or Audit; Prereq: Completion of at least one-half of professional sequence, plan submitted and approved in advance by adviser and internship supervisor, written consent of faculty supervisor, instr consent)  
 50128 001 FWK, Independent/Directed Study; Missy Bye ; 1-4 cr.  
 50129 002 FWK, Independent/Directed Study; Linsey Griffin ; 1-4 cr.  
 50130 003 FWK, Independent/Directed Study; Lucy Dunne ; 1-4 cr.  
 50280 004 FWK, Independent/Directed Study; Marilyn DeLong ; 1-4 cr.  
 50384 005 FWK, In Person Term Based; Brad Holschuh ; 1-4 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)  
 50131 001 LEC, 08:30-09:20 TTh, McNeal Hall 316, In Person Term Based; 4 cr.  
 50132 002 LAB, 09:35-11:30 TTh, McNeal Hall 316, In Person Term Based; 4 cr.

#### 4218W Fashion, Design, and the Global Industry

(A-F only; Prereq: Upper level undergraduate or grad studentWI)  
 65768 001 LEC, Completely Online; 3 cr.

### Apparel Studies (APST)

#### 5121 History of Fashion, 19th to 21st Century

(A-F only; )  
 50446 001 DIS, 11:45-13:40 TTh, McNeal Hall 10, In Person Term Based; Meets With: 002 ADES 4121; 4 cr.

#### 5193 Directed Study in Apparel Studies

(A-F or Audit; Prereq: instr consent)  
 50133 001 IND, In Person Term Based; Missy Bye ; 1-4 cr.  
 50134 003 IND, In Person Term Based; Lucy Dunne ; 1-4 cr.  
 50135 004 IND, In Person Term Based; Marilyn DeLong ; 1-4 cr.  
 50281 005 IND, In Person Term Based; Brad Holschuh ; 1-4 cr.  
 50282 006 IND, In Person Term Based; Hye-Young Kim ; 1-4 cr.  
 50283 007 IND, In Person Term Based; Juanjuan Wu ; 1-4 cr.  
 50310 008 IND, In Person Term Based; Hyunjoo Im ; 1-4 cr.  
 50381 002 IND, In Person Term Based; Linsey Griffin ; 1-4 cr.

#### 5224 Functional Clothing Design

(A-F only; )

50410 001 LEC, 09:35-12:35 MW, McNeal Hall 205, In Person Term Based; Meets With: 001 ADES 3224W; 4 cr.

## Applied Business (ABUS)

### 3051 Career Search for the Professional Environment

(Student Option; Prerequisites: None, but upper-division status recommended.)

64513 302 LEC, Completely Online; Alyssa Maples ; 2 cr.  
64544 301 LEC, Completely Online; Carol Klempka ; 2 cr.  
64637 304 LEC, Completely Online; Alyssa Maples ; 2 cr.  
64678 305 LEC, Completely Online; Carol Klempka ; 2 cr.  
64705 306 LEC, Completely Online; Caroline Marin ; 2 cr.

### 3052 Career Building in the Remote Gig Economy

(A-F or Audit; Prerequisites: None)

66696 301 LEC, Completely Online; Uriah Giordana ; 2 cr.  
67639 302 LEC, Completely Online; Uriah Giordana ; 2 cr.

### 3201 Digital Design Strategies for Small Business

(A-F or Audit; Prerequisites: None.)

64699 301 LEC, Completely Online; David Husom ; 4 cr.  
67645 302 LEC, Completely Online; Jeff Neidt ; 4 cr.

### 3301 Introduction to Quality Management

(A-F or Audit; Prereq: Introductory statistics)

64462 301 LEC, Completely Online; Karen Schaffhausen ; 3 cr.

### 4013W Legal, Ethical, and Risk Issues for Managers

(A-F or Audit; Prereq: CMgt 4011 recommended for CMgt students, 45 semester creditsWI)

64578 301 LEC, Completely Online; Michael Essien ; 3 cr.

### 4022W Management in Organizations

(A-F or Audit; Prereq: 45 semester credits recommendedWI)

64434 301 LEC, Completely Online; Bradley Goodell ; 3 cr.  
64599 302 LEC, Completely Online; Bradley Goodell ; 3 cr.  
64638 303 LEC, Completely Online; Bradley Goodell ; 3 cr.

### 4023W Communicating for Results

(A-F or Audit; Prereq: 45 cr completedWI)

64461 301 LEC, Completely Online; Bradley Goodell ; 3 cr.  
64498 302 LEC, Completely Online; Bradley Goodell ; 3 cr.  
64610 303 LEC, Completely Online; Ann Lowry ; 3 cr.

### 4041 Dynamics of Leadership

(A-F or Audit; Prereq: 45 cr completed)

64438 301 LEC, Completely Online; David Kaiser ; 3 cr.

### 4043 Project Management in Practice

(A-F or Audit; Prereq: 45 cr completed)

64600 301 LEC, Completely Online; William Bengtson ; 3 cr.

### 4101 Accounting and Finance for Managers

(A-F or Audit; Prereq: Financial accounting, 45 cr)

64430 301 LEC, Completely Online; Stacy O'Fallon ; 3 cr.

### 4104 Management and Human Resource Practices

(A-F or Audit; Prereq: 45 cr completed)

64428 301 LEC, Completely Online; Margaret Kilpatrick ; 3 cr.  
64652 302 LEC, Completely Online; Julie Tschida ; 3 cr.

### 4105 Becoming an Authentic Leader in an Applied Business Setting

(A-F or Audit; Prerequisites: None)

66697 301 LEC, Completely Online; Carol Klempka ; 3 cr.  
66700 302 LEC, Completely Online; Carol Klempka ; 3 cr.

### 4151 Innovation for Leaders and Organizations

(A-F or Audit; Prereq: 45 cr)

64465 301 LEC, Completely Online; Richard Brynteson ; 3 cr.

### 4218 Real Estate Finance

(A-F or Audit; )

64669 301 LEC, Completely Online; Jody Tableporter ; 2 cr.

### 4502 Inclusive Business Leadership: Advancing Diversity

(A-F or Audit; )

64640 301 LEC, Completely Online; Ralf Schirg ; 3 cr.

### 4515 Strategy and Management for a Sustainable Future

(A-F or Audit; Prereq: 45 cr completed)

64516 301 LEC, Completely Online; Garth Hickle ; 3 cr.

### 4545 Defying Racial Bias in the Workplace: Individual Action and Accountability

(A-F or Audit; Prerequisites: None)

66699 301 LEC, Completely Online; Phillip Hampton ; 3 cr.

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

(A-F or Audit; WI)

64621 301 LEC, Completely Online; Catherine Mohn ; 3 cr.

### 4701 Introduction to Marketing

(A-F or Audit; Prereq: [Macroeconomics or microeconomics], 45 cr)

64451 301 LEC, Completely Online; Kay Rindels ; 3 cr.

### 4702 Applied Digital Marketing

(A-F or Audit; Prerequisites: None)

64641 301 LEC, Completely Online; Jeff Neidt ; 3 cr.

### 4703 Marketing for the Professional Practice

(A-F or Audit; Prereq: 45 semester cr recommended)

64680 301 LEC, Completely Online; Geoffrey Kaufmann ; 3 cr.

### 4993 Directed Study

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

64442 001 LEC, In Person Term Based; 1-3 cr.

## Applied Economics (APEC)

### 1101 Principles of Microeconomics

(Student Option; GP,SOC5)

56711 001 LEC, 13:30-14:45 TTh, McNeal Hall 33, In Person Term Based; Justin Johnson ; 4 cr.  
56882 002 DIS, 09:35-10:25 F, Magrath Library 8, In Person Term Based; Justin Johnson ; 4 cr.  
56883 003 DIS, 10:40-11:30 F, Magrath Library 8, In Person Term Based; Justin Johnson ; 4 cr.  
56884 004 DIS, 11:45-12:35 F, McNeal Hall 395, In Person Term Based; Justin Johnson ; 4 cr.  
57105 005 DIS, 12:50-13:40 F, McNeal Hall 395, In Person Term Based; Justin Johnson ; 4 cr.  
67682 006 DIS, 10:40-11:30 F, McNeal Hall 395, In Person Term Based; Justin Johnson ; 4 cr.

### 1102 Principles of Macroeconomics

(Student Option; Prereq: 1101 or Econ 1101)

56712 001 LEC, 11:45-12:35 MWF, Ruttan Hall B45, In Person Term Based; Gary Cooper ; 3 cr.

### 1201 Applications of Excel in Economics and Management

(Student Option; )

57274 001 LAB, Completely Online; Thomas Durfee ; 1 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])

56713 001 LEC, 10:15-11:30 TTh, Ruttan Hall B35, In Person Term Based; Carlisle Runge ; 4 cr.  
56714 002 DIS, 10:40-11:30 F, Ruttan Hall B42, In Person Term Based; Carlisle Runge ; 4 cr.  
56897 003 DIS, 11:45-12:35 F, Ruttan Hall B42, In Person Term Based; Carlisle Runge ; 4 cr.

### 3002 Managerial Economics

(Student Option; Prereq - ApEc 3001 or Econ 3101 AND SCO 2550 or Stat 3011)

56715 001 LEC, 10:15-11:30 TTh, Ruttan Hall B45, In Person Term Based; Metin Cakir ; 4 cr.  
56716 002 LAB, 10:40-12:35 W, Coffey Hall 50, In Person Term Based; Metin Cakir ; 4 cr.  
56717 003 LAB, 12:50-14:45 W, Coffey Hall 50, In Person Term Based; Metin Cakir ; 4 cr.

### 3003 Introduction to Applied Econometrics

(A-F only; Prereq: APEC 1101 or equiv., STAT 3011 or equiv.)

57143 001 LEC, 15:00-16:15 W, Ruttan Hall B22, In Person Term Based; Caroline Carlin ; 4 cr.

57144 002 LAB, 09:35-10:25 F, Ruttan Hall 135B, In Person Term Based; Caroline Carlin ; 4 cr.

### 3006 Applied Macroeconomics: Government and the Economy

(Student Option; Prereq: [(1102 or Econ 1102), [3001 or Econ 3101]] or instr consent)

56718 001 LEC, 13:30-14:45 TTh, Ruttan Hall 143, In Person Term Based; Pamela Smith ; 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)

56719 001 LEC, 11:45-13:00 TTh, Ruttan Hall B22, In Person Term Based; Carlisle Runge ; 3 cr.

### 3071 Microeconomics of International Development

(Student Option; Prereq: 1101, 1102, Econ 1101, 1102, or instr consent)

57227 001 LEC, 13:00-14:15 MW, Ruttan Hall B35, In Person Term Based; Marc Bellemare ; 3 cr.

### 3451 Food and Agricultural Sales

(Student Option; Prereq: 1101 or Econ 1101)

56739 001 LEC, 15:00-16:15 TTh, Ruttan Hall B35, In Person Term Based; Jeffrey Stamp ; 3 cr.

### 3521 Agribusiness and Food Supply / Value Chain Issues

(Student Option No Audit; )

57268 001 LEC, 16:30-17:45 T, Twin Cities Remote, Completely Online; Michael Boland ; 3 cr.  
66394 002 LEC, Completely Online; Michael Boland ; 3 cr.

### 3611W Environmental and Natural Resource Economics

(Student Option; Prereq: 1101 or Econ 1101 or 1101H or Econ 1101HENV,WI)

56721 001 LEC, 10:40-11:30 MWF, McNeal Hall 33, In Person Term Based; Jay Coggins ; 3 cr.

### 3993 Directed Study in Applied Economics

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)

57421 001 IND, Independent/Directed Study; ; 1-4 cr.  
57422 002 IND, Independent/Directed Study; ; 1-4 cr.  
57423 003 IND, Independent/Directed Study; ; 1-4 cr.

### 4311 Tourism Development: Principles, Processes, Policies

(Student Option; Prereq: 1101, 1102 or Econ 1101, 1102)

57158 001 LEC, 17:10-20:10 T, Ruttan Hall 143, 17:10-20:10 T, Ruttan Hall 143, 17:10-20:10 T, Ruttan Hall 143, 17:10-20:10 T, Ruttan Hall 143, Partially Online; Bill Gartner ; 3 cr.

### 4461 Horticultural Marketing

(A-F only; )

57228 001 LEC, 11:45-13:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 HORT 4461; Chengyan Yue ; 3 cr.

### 4481 Futures and Options Markets

(Student Option; Prereq: [(3001 or Econ 3101), [AnSc 3011 or SCO 2550 or Stat 3011]] or instr consent)

56785 001 LEC, 08:45-10:00 TTh, Ruttan Hall 143, In Person Term Based; Meets With: 001 APEC 5481; Marin Bozic ; 3 cr.  
67617 002 LEC, 11:45-12:35 M, Twin Cities Remote, Completely Online; Edward Usset ; 3 cr.

### 4821W Business Economics and Strategy

(Student Option; Prereq: 3002, [3501 or FINA 3001], and [ACCT 3001 or MGMT 3001 or MKTG 3001]WI)

56722 001 LEC, 08:45-10:00 MW, Haecker Hall 205, In Person Term Based; Meets With: 001 APEC 5821; Metin Cakir ; 3 cr.

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

(Student Option; Prereq: 5031 or instr consent)

56958 001 LEC, 10:15-11:30 Th, Coffey Hall 50, 10:15-11:30 T, Ruttan Hall B42, In Person Term Based; Elizabeth Davis ; 3 cr.

### 5321 Regional Economic Analysis

(Student Option; Prereq: 3006 or ECON 3102 or instr consent)

57250 001 LEC, 15:00-16:15 TTh, Ruttan Hall B22, In Person Term Based; Elton Mykerezzi ; 3 cr.

### 5481 Futures and Options Markets

(Student Option; )

56925 001 LEC, 08:45-10:00 TTh, Ruttan Hall 143, In Person Term Based; Meets With: 001 APEC 4481; Marin Bozic ; 3 cr.

### 5821 Business Economics and Strategy

(Student Option; Prereq: graduate student and 3002, [3501 or FINA 3001], and [ACCT 3001 or MGMT 3001 or MKTG 3001])

57363 001 LEC, 08:45-10:00 MW, Haecker Hall 205, In Person Term Based; Meets With: 001 APEC 4821W; Metin Cakir ; 3 cr.

### 5831 Food and Agribusiness Marketplace

(A-F or Audit; Prereq: graduate student)

57159 001 LEC, 17:45-21:05 T, Twin Cities Remote, Completely Online; Michael Boland ; 2-3 cr.  
66395 002 LEC, Completely Online; Michael Boland ; 2-3 cr.

### 5832 The Business of Food Systems

(Student Option; )

57186 001 DIS, 08:30-12:30 MTWTh, Ruttan Hall B30, In Person Term Based; Michael Boland ; 1 cr.

### 5991 Independent Study in Applied

Economics

(Student Option; Prereq: instr consent)

65871 001 IND, Independent/Directed Study; 1-4 cr.  
65872 002 IND, Independent/Directed Study; 1-4 cr.  
65873 003 IND, Independent/Directed Study; 1-4 cr.

## Arabic (ARAB)

### 1102 Beginning Arabic II

(Student Option No Audit; )

52606 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 001 ARAB 4102; Casey Lagueras ; 5 cr.

53109 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 002 ARAB 4102; Casey Lagueras ; 5 cr.

53732 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 18, In Person Term Based; Meets With: 003 ARAB 4102; Nasr Abdo ; 5 cr.

55192 004 LEC, 14:30-15:20 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 004 ARAB 4102; Emily Sumner ; 5 cr.

### 3102 Intermediate Arabic II

(Student Option No Audit; )

52607 001 LEC, 08:00-08:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 ARAB 4122; Nasr Abdo ; 5 cr.

54116 002 LEC, 09:05-09:55 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 ARAB 4122; Nasr Abdo ; 5 cr.

### 3290 Arabic Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 3102/4122)

54665 001 FWK, In Person Term Based; Katrien Vanpee ; 1 cr.

### 3993 Directed Study

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

54679 001 IND, In Person Term Based; 1-5 cr.

### 4102 Beginning Arabic II for Graduate

Student Research

(Student Option No Audit; Prereq: 4101 or equiv)

54187 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 001 ARAB 1102; Casey Lagueras ; 5 cr.

54188 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 002 ARAB 1102; Casey Lagueras ; 5 cr.

54189 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 18, In Person Term Based; Meets With: 003 ARAB 1102; Nasr Abdo ; 5 cr.

54367 004 LEC, 14:30-15:20 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 004 ARAB 1102; Emily Sumner ; 5 cr.

### 4122 Intermediate Arabic II for Graduate

Student Research

(Student Option No Audit; Prereq: 4121 or equiv)

54190 001 LEC, 08:00-08:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 ARAB 3102; Nasr Abdo ; 5 cr.

54191 002 LEC, 09:05-09:55 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 ARAB 3102; Nasr Abdo ; 5 cr.

### 5040 Readings in Arabic Texts

(A-F only; )

68246 001 DIS, 11:15-12:45 TF, Folwell Hall 122, In Person Term Based; Katrien Vanpee ; 2-4 cr.

### 5993 Directed Studies

(Student Option; )

56520 001 IND, In Person Term Based; 1-5 cr.

## Arabic Lang/Culture in Morocco (MRCO)

## Architecture (ARCH)

### 2281 Design Fundamentals II

(A-F only; Prereq: 1281, [Arch mjr or pre-arch])

50067 001 LEC, 14:30-15:20 T, Rapson Hall 100, In Person Term Based; Dzenita Hadziomerovic ; 4 cr.

50068 002 LAB, 15:45-17:45 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50069 003 LAB, 15:45-17:45 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50070 004 LAB, 18:00-20:00 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50071 005 LAB, 18:00-20:00 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50097 006 LAB, 15:45-17:45 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50098 007 LAB, 18:00-20:00 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

50500 008 LAB, 15:45-17:45 TTh, 1425 University Ave 175, In Person Term Based; 4 cr.

### 2301 Drawing and Critical Thinking

(A-F only; Prereq: Arch 2281 or department consent)

50354 001 LAB, 09:05-11:00 MW, Appleby Hall 11, In Person Term Based; Isaac Tapp ; 4 cr.

### 3150 Topics in Architecture

(Student Option; )

69543 002 LEC, 11:15-12:30 TTh, Ford Hall 155, In Person Term Based; Joseph Hang ; 1-6 cr.

### 3231 Intensive Applications Design

Workshop

(A-F only; )

69156 001 LAB, 14:30-18:30 TTh, Lab TBA, In Person Term Based; Theodore Wright ; 3 cr.

69157 002 LAB, 13:25-15:35 M, Lab TBA, 13:25-15:25 F, Lab TBA, 13:25-17:25 W, Lab TBA, In Person Term Based; Julia Robinson ; 3 cr.

69159 004 LAB, 08:15-12:30 WF, Lab TBA, In Person Term Based; Marcelo Valdes ; 3 cr.

69160 005 LAB, 14:30-18:30 TTh, Lab TBA, In Person Term Based; Salvador Blumenkron ; 3 cr.

### 3232 Extensive Applications Design

Workshop

(A-F only; )

69149 001 LAB, 09:05-12:05 MWF, Lab TBA, In Person Term Based; Aaron Marx ; 3 cr.

69150 002 LAB, 14:30-18:30 TTh, Lab TBA, In Person Term Based; Sarah Gastler ; 3 cr.

69151 003 LAB, 13:25-17:25 WF, Lab TBA, In Person Term Based; Steven Dwyer ; 3 cr.

69153 004 LAB, 14:30-18:30 TTh, Lab TBA, In Person Term Based; Mark Tambornino ; 3 cr.

69155 005 LAB, 13:25-17:25 MW, Lab TBA, In Person Term Based; Dzenita Hadziomerovic ; 3 cr.

### 3281 Architecture Studio 01: Material

(A-F only; Prereq: Arch BS major and Arch 2301)

68493 001 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; 6 cr.

### 3351 AutoCAD I

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

50049 001 LEC, 18:00-20:30 T, Rapson Hall 33, In Person Term Based; Darin Duch ; 3 cr.

### 3391 Design and Representation with BIM

(A-F or Audit; )

50375 001 LEC, 18:00-20:30 Th, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 5391; Benjamin Delwiche ; 3 cr.

### 3412V Honors: Architectural History Since 1750

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

69618 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ARCH 3412W; Katherine Solomonson ; 3 cr.

69619 002 DIS, 13:00-13:50 Th, Twin Cities Remote, Completely Online; 3 cr.

### 3412W Architectural History Since 1750

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

49937 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ARCH 3412V; Katherine Solomonson ; 3 cr.

49938 003 DIS, 11:15-12:05 M, Twin Cities Remote, Completely Online; 3 cr.

49939 006 DIS, 11:15-12:05 W, Twin Cities Remote, Completely Online; 3 cr.

49940 008 DIS, 11:15-12:05 W, Twin Cities Remote, Completely Online; 3 cr.

49941 009 DIS, 11:15-12:05 F, Twin Cities Remote, Completely Online; 3 cr.

49942 013 DIS, 11:15-12:05 Th, Twin Cities Remote, Completely Online; 3 cr.

50096 010 DIS, 18:30-19:20 M, Twin Cities Remote, Completely Online; 3 cr.

69605 004 DIS, 11:15-12:05 M, Twin Cities Remote, Completely Online; 3 cr.

### 3756 Public Interest Design: Principles and Practices

(A-F or Audit; )

50400 001 LEC, 08:15-09:30 TTh, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 5756; James Wheeler ; 3 cr.

### 3993 Directed Study

(A-F only; Prereq: instr consent)

50047 001 IND, In Person Term Based; Julia Robinson ; 1-3 cr.

### 4150 Topics in Architecture

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

69544 001 LEC, In Person Term Based; 1-4 cr.

### 4194H Thesis/Capstone Project

(A-F only; Prereq: Arch major, sr, honors)

50296 001 IND, 13:00-15:00 M, Civil Engineering Bldg 213, Independent/Directed Study; Gail Dubrow ; 3 cr.

### 4232 Advanced Extensive Applications

Design Workshop

(A-F only; )

69161 001 LAB, 13:25-17:25 MF, Lab TBA, In Person Term Based; Mary Guzowski-Lindbeck ; 3 cr.

69162 002 LAB, 13:25-17:25 WF, Lab TBA, In Person Term Based; 3 cr.

### 4284 Architecture Studio 04: Urban Design

(A-F only; )

50009 001 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; 6 cr.

### 4341 Architecture Portfolio Design

(A-F only; )

50376 001 LAB, 09:45-11:00 TTh, Lab TBA, In Person Term Based; Martha McQuade ; 3 cr.

### 4410 Topics in Architectural History

(A-F only; )

69635 001 LEC, 18:00-20:30 W, Rapson Hall 43, In Person Term Based; Julia Robinson ; 1-4 cr.

### 4424 Renaissance Architecture

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

68780 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ARCH 5424; Robert Ferguson ; 3 cr.

### 4561 Architecture and Ecology

(A-F or Audit; ENV)

50051 001 LEC, 11:15-12:30 TTh, Rapson Hall 100, In Person Term Based; Dan Handeen ; 3 cr.

50052 002 LAB, 11:15-12:05 F, Rapson Hall 58, In Person Term Based; 3 cr.

50053 003 LAB, 11:15-12:05 M, Vincent Hall 213, In Person Term Based; 3 cr.

50054 004 LAB, 11:15-12:05 M, Smith Hall 121, In Person Term Based; 3 cr.

50055 005 LAB, 11:15-12:05 W, Vincent Hall 213, In Person Term Based; 3 cr.  
 50056 006 LAB, 11:15-12:05 W, Kolthoff Hall 136, In Person Term Based; 3 cr.  
 50057 007 LAB, 11:15-12:05 F, Mechanical Engineering 321, In Person Term Based; 3 cr.

#### 4701W Introduction to Urban Form and Theory

(A-F only; Prereq: [3411, 3412] or instr consentWI)  
 50355 001 LEC, 09:45-11:00 MW, Peik Gymnasium G55, In Person Term Based; 3 cr.  
 50421 002 DIS, 11:15-12:05 M, Mechanical Engineering 321, In Person Term Based; 3 cr.  
 50422 003 DIS, 11:15-12:05 W, Mechanical Engineering 321, In Person Term Based; 3 cr.

#### 5110 Architecture as Catalyst

(S-N only; Prereq: M.Arch)  
 50101 001 LEC, In Person Term Based; 1 cr.

#### 5250 Advanced Topics in Design

(A-F only; )  
 69645 001 LEC, 13:25-17:30 MWF, Lab TBA, In Person Term Based; 1-6 cr.  
 69646 002 LEC, 13:25-17:30 MWF, Lab TBA, In Person Term Based; 1-6 cr.  
 69689 003 LEC, In Person Term Based; Christine Albertsson ; 1-6 cr.  
 69690 004 LEC, In Person Term Based; Mary Guzowski-Lindbeck ; 1-6 cr.  
 69691 005 LEC, In Person Term Based; William Weber ; 1-6 cr.  
 69692 006 LEC, In Person Term Based; Richard Graves ; 1-6 cr.  
 69699 007 LEC, In Person Term Based; Andrzej Piotrowski ; 1-6 cr.  
 69700 008 LEC, In Person Term Based; Tamer Azzazi ; 1-6 cr.  
 69701 009 LEC, In Person Term Based; 1-6 cr.  
 69702 010 LEC, In Person Term Based; Gabriela Baierle ; 1-6 cr.

#### 5391 Design and Representation with BIM

(A-F or Audit; )  
 50401 001 LEC, 18:00-20:30 Th, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 3391; Benjamin Delwiche ; 3 cr.

#### 5410 Topics in Architectural History

(A-F or Audit; )  
 69562 001 LEC, 11:15-12:30 MW, Bruininks Hal 121, In Person Term Based; Lisa Hsieh ; 3 cr.

#### 5413 Modern and Contemporary Global Architecture

(A-F only; )  
 50413 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Daniela Sandler ; 3 cr.

#### 5424 Renaissance Architecture

(A-F or Audit; Prereq: MS Arch or M Arch major or instr consent)  
 68781 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ARCH 4424; Robert Ferguson ; 3 cr.

#### 5518 Environmental Technology:

##### Integrative Ecological Design for Responsive Architecture

(A-F only; )  
 50415 001 LEC, 13:00-14:15 TTh, Bruininks Hall 119, In Person Term Based; Christopher Wingate, Patrick Smith ; 3 cr.

#### 5561 Tech 1, Structures for Building

(A-F or Audit; Prereq: M Arch major or instr consent)  
 50419 001 LEC, 08:15-09:30 TTh, Rapson Hall 43, In Person Term Based; Saura Jost ; 3 cr.

#### 5630 Practicum: Advanced Issues in Practice

(Student Option No Audit; Prereq: M.S. Architecture or M.Arch)  
 50495 001 LEC, In Person Term Based; Dustin Schipper ; 3 cr.

#### 5650 Topics in Architectural Practice

(Student Option; Prereq: 5621, Arch major or 5621, M Arch major or instr consent)  
 69561 001 LEC, 09:45-11:00 TTh, Room TBA, In Person Term Based; 1-4 cr.

#### 5651 Building Stories

(A-F only; )  
 50306 001 LEC, 15:00-17:45 TTh, Smith Hall 121, In Person Term Based; Alexis Duval-Arnould, Nathan Knutson ; 3 cr.

#### 5672 Historic Building Conservation

(Student Option; Prereq: 3412, 5671 or instr consent)  
 69012 001 LEC, 09:45-12:30 F, Mechanical Engineering 221, In Person Term Based; Todd Grover ; 3 cr.

#### 5686 Research Practices Final Project:

Research into Practice  
 (A-F only; Prereq: MS-CP student)  
 50496 001 FWK, In Person Term Based; 4 cr.

#### 5687 Research Practices Final Project:

Practice into Research  
 (S-N only; Prereq: Arch 5686)  
 50497 001 FWK, In Person Term Based; Malini Srivastava, Nicole Kennedy ; 4 cr.

#### 5688 Research Practices Final Project:

Representation of Case Studies  
 (A-F only; Prereq: Arch 5686)  
 50498 001 FWK, In Person Term Based; Malini Srivastava, Nicole Kennedy ; 1 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)  
 50285 001 LEC, 09:45-12:30 TTh, Rapson Hall 109, In Person Term Based; Thomas Fisher ; 3 cr.

#### 5721 Case Studies in Urban Design

(A-F or Audit; Prereq: Grad student or instr consent)  
 50414 001 LEC, 09:45-12:30 TTh, Rapson Hall 109, In Person Term Based; Jennifer Yoos ; 3 cr.

#### 5756 Public Interest Design: Principles and Practices

(A-F or Audit; )  
 50399 001 LEC, 08:15-09:30 TTh, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 3756; James Wheeler ; 3 cr.

#### 5993 Directed Study

(A-F or Audit; Prereq: instr consent)  
 49996 001 IND, In Person Term Based; Malini Srivastava ; 1-4 cr.  
 50499 025 IND, In Person Term Based; Julia Robinson ; 1-4 cr.  
 50513 026 IND, In Person Term Based; Daniela Sandler ; 1-4 cr.  
 50514 027 IND, In Person Term Based; Daniela Sandler ; 1-4 cr.  
 50517 028 IND, In Person Term Based; Richard Graves ; 1-4 cr.  
 50518 029 IND, In Person Term Based; Daniela Sandler ; 1-4 cr.  
 50521 030 IND, In Person Term Based; Julia Robinson ; 1-4 cr.

## Art (ARTS)

#### 1001 Introduction to Contemporary Art and Theory

(Student Option; DSJ,AH)  
 52602 001 LEC, Completely Online; Meets With: 001 ARTS 1001H; Christina Schmid ; 3 cr.  
 52603 002 DIS, Completely Online; Christina Schmid ; 3 cr.  
 54285 004 DIS, Completely Online; Christina Schmid ; 3 cr.  
 54592 003 DIS, Completely Online; Christina Schmid ; 3 cr.  
 69545 005 DIS, Completely Online; Christina Schmid ; 3 cr.

#### 1001H Honors Introduction to Contemporary Art and Theory

(A-F or Audit; Prereq: Honors studentAH,DSJ)  
 55096 001 LEC, Completely Online; Meets With: 001 ARTS 1001; Christina Schmid ; 3 cr.  
 55106 002 DIS, Completely Online; Christina Schmid ; 3 cr.

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

(Student Option; AH,CIV)  
 54796 001 LEC, 13:25-15:55 W, Twin Cities Remote, Completely Online; Emmett Ramstad ; 3 cr.

#### 1101 Introduction to Drawing

(Student Option; AH)

52582 001 LAB, 13:25-15:55 MW, Regis Center for Art W270, In Person Term Based; Nicholas Pope ; 4 cr.  
 52583 002 LAB, 18:00-20:30 MW, Regis Center for Art W260, 18:00-20:30 MW, Regis Center for Art W270, In Person Term Based; Ethan Pope ; 4 cr.  
 52584 003 LAB, 09:05-11:35 TTh, Regis Center for Art W260, 09:05-11:35 TTh, Regis Center for Art W270, In Person Term Based; Jonathan Aller ; 4 cr.  
 52585 004 LAB, 13:25-15:55 TTh, Regis Center for Art W260, 13:25-15:55 TTh, Regis Center for Art W270, In Person Term Based; Jonathan Aller ; 4 cr.  
 52586 005 LAB, 09:05-11:35 MW, Regis Center for Art W244, In Person Term Based; Sean Connaughty ; 4 cr.  
 54929 008 LAB, 10:10-15:10 F, Regis Center for Art W260, 10:10-15:10 F, Regis Center for Art W270, In Person Term Based; Melissa Benson ; 4 cr.  
 54931 010 LAB, 10:10-15:10 Sa, Regis Center for Art W260, 10:10-15:10 Sa, Regis Center for Art W270, In Person Term Based; Jonathan Aller ; 4 cr.

#### 1102 Introduction to Painting

(Student Option; AH)  
 52608 001 LAB, 13:25-15:55 MW, Regis Center for Art W268, 13:25-15:55 MW, Regis Center for Art W264, In Person Term Based; Kristen Sanders ; 4 cr.  
 55385 002 LAB, 18:00-20:30 MW, Regis Center for Art W268, 18:00-20:30 MW, Regis Center for Art W264, In Person Term Based; Travis McEwen ; 4 cr.  
 56011 003 LAB, 09:05-11:35 TTh, 09:05-11:35 TTh, Regis Center for Art W247, In Person Term Based; Oakley Tapola ; 4 cr.

#### 1103 Introduction to Printmaking: Relief, Screen and Digital Processes

(Student Option; AH)  
 53939 001 LAB, 18:00-20:30 MW, Regis Center for Art W189, 18:00-20:30 MW, Regis Center for Art W187, In Person Term Based; Drew Peterson ; 4 cr.  
 54680 002 LAB, 09:05-11:35 MW, Regis Center for Art W189, 09:05-11:35 MW, Regis Center for Art W187, In Person Term Based; Drew Peterson ; 4 cr.

#### 1107 Introduction to Digital Drawing

(Student Option; AH)  
 55154 001 LAB, 13:25-15:55 MW, Regis Center for Art W248, 13:25-15:55 MW, Regis Center for Art W240, In Person Term Based; Mark Schoening ; 4 cr.  
 55537 002 LAB, 18:00-20:30 TTh, Regis Center for Art W248, 18:00-20:30 TTh, Regis Center for Art W240, In Person Term Based; Caitlin Skaalrud ; 4 cr.  
 55831 003 LAB, 10:10-15:10 F, Twin Cities Remote, Completely Online; Christopher Corey Allen ; 4 cr.  
 66224 004 LAB, 09:05-11:35 MW, Regis Center for Art W248, 09:05-11:35 MW, Regis Center for Art W240, In Person Term Based; Caitlin Skaalrud ; 4 cr.

#### 1201 Art + Change: The Transformational Power of Art

(Student Option; )  
 66225 001 LAB, 09:05-11:35 MW, Regis Center for Art w217, 09:05-11:35 MW, Regis Center for Art W123, In Person Term Based; Diane Willow ; 4 cr.

#### 1701 Introduction to Photography

(Student Option; AH)  
 52580 001 LAB, 13:25-15:55 MW, Regis Center for Art W175, 13:25-15:55 MW, Regis Center for Art W132, In Person Term Based; Caroline Houdek Solomon ; 4 cr.  
 52581 002 LAB, 13:25-15:55 MW, Regis Center for Art W121, 13:25-15:55 MW, Regis Center for Art W137, In Person Term Based; Steven Rowell ; 4 cr.  
 54774 003 LAB, 09:05-11:35 TTh, Regis Center for Art W175, 09:05-11:35 TTh, Regis Center for Art W132, In Person Term Based; Christopher Selleck ; 4 cr.  
 54932 004 LAB, 09:05-11:35 TTh, Regis Center for Art W121, 09:05-11:35 TTh, Regis Center for Art W137, In Person Term Based; Sarah Sampedro ; 4 cr.  
 54933 005 LAB, 18:00-20:30 MW, Regis Center for Art E110, In Person Term Based; Christopher Selleck ; 4 cr.

#### 1704 Introduction to Moving Images

(Student Option; Prerequisite for intermediate level Department of Art courses in Moving Images including Narrative Digital Filmmaking, Experimental Film and Video, Animation and Super 8 and 16 mm Filmmaking.AH)  
 52601 002 LAB, 13:25-15:55 TTh, Regis Center for Art E110, In Person Term Based; Thalia Drori ; 4 cr.  
 53195 003 LAB, 09:05-11:35 MW, Regis Center for Art E110, In Person Term Based; Thalia Drori ; 4 cr.  
 54983 001 LAB, 18:00-20:30 TTh, Regis Center for Art E110, In Person Term Based; Cara Deleon ; 4 cr.  
 56154 004 LAB, 10:10-14:10 F, Regis Center for Art E110, In Person Term Based; Rolf Belgium ; 4 cr.

**1801 Introduction to Ceramics: Wheel-Throwing and Hand-Building Techniques**

- (Student Option; AH)  
52593 002 LAB, 09:05-11:35 MW, Regis Center for Art E155, 09:05-11:35 MW, Regis Center for Art E154, In Person Term Based; Allison Craver ; 4 cr.  
52594 001 LAB, 18:00-20:30 TTh, Regis Center for Art E155, 18:00-20:30 TTh, Regis Center for Art E154, In Person Term Based; Priya Thoresen ; 4 cr.  
53583 004 LAB, 09:05-11:35 TTh, Regis Center for Art E170, 09:05-11:35 TTh, Regis Center for Art E156, In Person Term Based; Erika Terwilliger ; 4 cr.  
53664 003 LAB, 09:05-11:35 MW, Regis Center for Art E170, 09:05-11:35 MW, Regis Center for Art E156, In Person Term Based; Thomas Lane ; 4 cr.  
54934 005 LAB, 09:05-11:35 TTh, Regis Center for Art E155, 09:05-11:35 TTh, Regis Center for Art E154, In Person Term Based; Chotsani Dean ; 4 cr.

**1802 Introduction to Sculpture: Understanding the Fundamentals of the Practice of Sculpture**

- (Student Option; AH)  
53594 001 LAB, 09:05-11:35 MW, Regis Center for Art E139, 09:05-11:35 MW, Regis Center for Art E117, In Person Term Based; Kristina Estell ; 4 cr.  
53595 002 LAB, 13:25-15:55 MW, Regis Center for Art E139, 13:25-15:55 MW, Regis Center for Art E117, In Person Term Based; Kristina Estell ; 4 cr.  
53596 003 LAB, 09:05-11:35 TTh, Regis Center for Art E139, 09:05-11:35 TTh, Regis Center for Art E117, In Person Term Based; Katayoun Amjadi ; 4 cr.

**3120 Intermediate Painting**

- (Student Option; Prereq: 1102)  
52578 001 LAB, 09:05-11:35 TTh, Regis Center for Art W268, 09:05-11:35 TTh, Regis Center for Art W264, In Person Term Based; Mathew Zefeldt ; 4 cr.

**3140 Figure Drawing**

- (Student Option; Prereq: 1101 or 1104)  
51555 001 LAB, 09:05-11:35 MW, Regis Center for Art W270, 09:05-11:35 MW, Regis Center for Art W260, In Person Term Based; Kristen Sanders ; 4 cr.

**3150 Dimensional Painting**

- (Student Option; Prereq: 1102)  
54696 001 LAB, 09:05-11:35 MW, Regis Center for Art W268, 09:05-11:35 MW, Regis Center for Art W264, In Person Term Based; Mark Schoening ; 4 cr.

**3170 Intermediate Digital Drawing**

- (Student Option; Prereq: 1107)  
54273 001 LAB, 13:25-15:55 TTh, Regis Center for Art W248, 13:25-15:55 TTh, Regis Center for Art W240, In Person Term Based; Corinne Teed ; 4 cr.

**3180 Zines, Comics, and Books**

- (A-F or Audit; )  
55097 001 LAB, 09:05-11:35 TTh, Regis Center for Art W240, 09:05-11:35 TTh, Regis Center for Art W248, 09:05-11:35 TTh, Regis Center for Art W189, 09:05-11:35 TTh, Regis Center for Art W187, In Person Term Based; Corinne Teed ; 4 cr.  
55832 002 LAB, 18:00-20:30 MW, Regis Center for Art W248, 18:00-20:30 MW, Regis Center for Art W240, In Person Term Based; Louise Fisher ; 4 cr.

**3190 Mixed Media on Paper**

- (Student Option; )  
66164 001 LAB, 13:25-15:55 MW, Regis Center for Art W247, 13:25-15:55 MW, Regis Center for Art W260, 13:25-15:55 MW, In Person Term Based; Laura Stack ; 4 cr.

**3206W Art + Ecology**

- (A-F or Audit; WI)  
55386 001 LEC, 13:25-15:55 TTh, Regis Center for Art W257, 13:25-15:55 TTh, Regis Center for Art W244, In Person Term Based; Sean Connaughty ; 4 cr.

**3230 Sound Art**

- (Student Option; )  
68295 001 LAB, 13:25-15:55 MW, Regis Center for Art W123, 13:25-15:55 MW, Regis Center for Art w217, In Person Term Based; Meets With: 001 ARTS 5230; Diane Willow ; 4 cr.

**3401V Honors: Critical Theories and Their Construction From a Studio Perspective**

- (A-F or Audit; Prereq: [junior] or instr consentAH,WI,CIV)  
55160 001 LEC, Completely Online; Meets With: 001 ARTS 3401W; Christina Schmid ; 3 cr.

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

- (Student Option; Prereq: instr consentWI,CIV,AH)  
54713 001 LEC, Completely Online; Meets With: 001 ARTS 3401V; Christina Schmid ; 3 cr.

**3404W Professional Practices in the Arts**

- (A-F only; Prereq: Grad student or [Art BFA student or Art Major, jr or sr]WI)  
54800 001 LEC, 09:05-11:35 T, Regis Center for Art E136, In Person Term Based; Xin Shen ; 3 cr.

**3710 Black and White Darkroom Photography**

- (Student Option; Prereq: 1701)  
55829 001 LAB, 13:25-15:55 TTh, Regis Center for Art W175, 13:25-15:55 TTh, Regis Center for Art W132, In Person Term Based; Sarah Sampedro ; 4 cr.

**3720 The Extended Image**

- (Student Option; Prereq: 1701 or 1704)  
66226 001 LAB, 09:05-11:35 MW, Regis Center for Art W121, 09:05-11:35 MW, Regis Center for Art W137, In Person Term Based; Steven Rowell ; 4 cr.

**3730 Intermediate Digital Photography**

- (Student Option; Prereq: 1701)  
53415 001 LAB, 13:25-15:55 TTh, Regis Center for Art W121, 13:25-15:55 TTh, Regis Center for Art W137, In Person Term Based; Paul Shambroom ; 4 cr.

**3750 Narrative Digital Filmmaking**

- (Student Option; Prereq: [1704 or instr consent])  
54990 001 LAB, 13:25-15:55 MW, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 5750; Rolf Belgium ; 4 cr.

**3770 Animation**

- (Student Option; Prereq: ARTS 1704)  
53428 001 LAB, 18:00-20:30 MW, Twin Cities Remote, Completely Online; Meets With: 001 ARTS 5770; Colin O'Neill ; 4 cr.  
54850 002 LAB, 18:00-20:30 TTh, , 18:00-20:30 TTh, Regis Center for Art W121, In Person Term Based; Meets With: 002 ARTS 5770; Colin O'Neill ; 4 cr.

**3780 Super 8 and 16 MM Filmmaking**

- (A-F or Audit; )  
55388 001 LAB, 09:05-14:05 F, Regis Center for Art W121, 09:05-14:05 F, Regis Center for Art W123, In Person Term Based; Meets With: 001 ARTS 5780; Sam Hoolihan ; 4 cr.

**3820 Ceramic: Wheel Throwing**

- (Student Option; Prereq: 1801)  
52595 001 LAB, 13:25-15:55 MW, Regis Center for Art E170, 13:25-15:55 MW, Regis Center for Art E156, In Person Term Based; Thomas Lane ; 4 cr.

**3830 Ceramic Sculpture**

- (Student Option; Prereq: 1801)  
55387 001 LAB, 13:25-15:55 TTh, Regis Center for Art E155, 13:25-15:55 TTh, Regis Center for Art E154, In Person Term Based; Erika Terwilliger ; 4 cr.

**3850 Foundry and Metal Sculpture**

- (Student Option; Prereq: ARTS 1802)  
54695 001 LAB, 13:25-15:55 TTh, Regis Center for Art E170A, In Person Term Based; Meets With: 001 ARTS 5850; Rotem Tamir ; 4 cr.

**3860 Sculpture and Installation**

- (Student Option; Prereq: 1802)  
55159 001 LAB, 09:05-11:35 TTh, Regis Center for Art E123, In Person Term Based; Meets With: 001 ARTS 5860; Rotem Tamir ; 4 cr.

**3890 3D Modeling and Digital Fabrication**

- (Student Option; )  
55357 001 LAB, 18:00-20:30 MW, Regis Center for Art W137, 18:00-20:30 MW, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 5890; Robin Schwartzman ; 4 cr.

**5110 Advanced Drawing**

- (Student Option; Prereq: Art major and ARTS 3110)  
52660 001 LAB, 13:25-15:55 TTh, , 13:25-15:55 TTh, Regis Center for Art W247, In Person Term Based; Travis McEwen ; 4 cr.

**5120 Advanced Painting**

- (Student Option; Prereq: ARTS 3120 and ARTS major)  
52644 001 LAB, 13:25-15:55 TTh, Regis Center for Art W268, 13:25-15:55 TTh, Regis Center for Art W264, In Person Term Based; Mathew Zefeldt ; 4 cr.

**5140 Advanced Printmaking**

- (Student Option; Prereq: ARTS major and ARTS 3130)  
53526 001 LAB, 13:25-15:55 TTh, Regis Center for Art W189, 13:25-15:55 TTh, Regis Center for Art W187, In Person Term Based; Jenny Schmid ; 4 cr.

**5230 Advanced Art + Sound**

- (Student Option; Prereq: ARTS major and 3605 or 3230)  
68296 001 LAB, 13:25-15:55 MW, Regis Center for Art w217, 13:25-15:55 MW, Regis Center for Art W123, In Person Term Based; Meets With: 001 ARTS 3230; Diane Willow ; 4 cr.

**5404 BA Capstone and Exhibition**

- (S-N only; )  
55153 001 DIS, 09:05-11:35 F, Regis Center for Art W268, 09:05-11:35 F, Regis Center for Art W264, In Person Term Based; Emmett Ramstad ; 3 cr.

**5407 BFA Capstone 2: Critique and Exhibition**

- (A-F only; )  
55830 001 LAB, 10:10-14:10 F, , In Person Term Based; Lamar Peterson ; 4 cr.

**5710 Advanced Photography and Moving Image Projects**

- (Student Option; Prereq: previously completed a 3XXX course in Photography or Moving Images and Art major)  
66227 001 LAB, 09:05-11:35 TTh, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 5760; Steven Rowell ; 4 cr.

**5750 Advanced Narrative Digital Filmmaking**

- (Student Option; Prereq: 3750)  
54991 001 LAB, 13:25-15:55 MW, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 3750; Rolf Belgium ; 4 cr.

**5760 Experimental Film and Video**

- (Student Option; Prereq: ArtS major, ArtS 1704)  
66228 001 LAB, 09:05-11:35 TTh, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 5710; Steven Rowell ; 4 cr.

**5770 Animation**

- (Student Option; Prereq: Art major )  
53429 001 LAB, 18:00-20:30 MW, Twin Cities Remote, Completely Online; Meets With: 001 ARTS 3770; Colin O'Neill ; 4 cr.  
54851 002 LAB, 18:00-20:30 TTh, , 18:00-20:30 TTh, Regis Center for Art W121, In Person Term Based; Meets With: 002 ARTS 3770; Colin O'Neill ; 4 cr.

**5780 Advanced Super 8 and 16 MM Filmmaking**

- (A-F or Audit; Prereq: Art major)  
55389 001 LAB, 09:05-14:05 F, Regis Center for Art W121, 09:05-14:05 F, Regis Center for Art W123, In Person Term Based; Meets With: 001 ARTS 3780; Sam Hoolihan ; 4 cr.

**5810 Advanced Ceramics**

- (Student Option; Prereq: ARTS major and ARTS 3820 or ARTS 3830)  
53552 001 LAB, 13:25-15:55 TTh, Lab TBA, In Person Term Based; Chotsani Dean ; 4 cr.

**5850 Advanced Foundry and Metal Sculpture**

- (Student Option; Prereq: Art major )  
55047 001 LAB, 13:25-15:55 TTh, Regis Center for Art E170A, In Person Term Based; Meets With: 001 ARTS 3850; Rotem Tamir ; 4 cr.

**5860 Advanced Sculpture**

- (Student Option; Prereq: ARTS major and ARTS 3860)  
66789 001 LEC, 09:05-11:35 TTh, Regis Center for Art E123, In Person Term Based; Meets With: 001 ARTS 3860; Rotem Tamir ; 4 cr.

**5890 3D Modeling and Digital Fabrication**

- (Student Option; Prereq: ARTS major )  
55358 001 LAB, 18:00-20:30 MW, Regis Center for Art W137, 18:00-20:30 MW, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 3890; Robin Schwartzman ; 4 cr.

**Art History (ARTH)**

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

- 54249 001 LEC, 09:45-11:00 MW, West Bank Skyway 20, In Person Term Based; Laura Kalba ; 4 cr.  
 54324 002 DIS, 11:15-12:05 W, Blegen Hall 135, In Person Term Based; 4 cr.  
 54325 003 DIS, 11:15-12:05 W, Hubert H. Humphrey School 60, In Person Term Based; 4 cr.  
 54326 004 DIS, 10:10-11:00 Th, Blegen Hall 240, In Person Term Based; 4 cr.  
 54327 005 DIS, 13:00-13:50 Th, Blegen Hall 115, In Person Term Based; 4 cr.

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

- 55311 001 LEC, Completely Online; Daniel Greenberg ; 4 cr.  
 68268 002 DIS, 11:15-12:05 F, Twin Cities Remote, Completely Online; 4 cr.  
 68269 003 DIS, 08:00-08:50 W, Twin Cities Remote, Completely Online; 4 cr.  
 68270 004 DIS, 11:15-12:05 W, Twin Cities Remote, Completely Online; 4 cr.  
 68271 005 DIS, 12:20-13:10 W, Twin Cities Remote, Completely Online; 4 cr.

**3014W Art of India****(Student Option; AH,WI,GP)**

- 55209 001 LEC, 11:15-12:30 MW, Blegen Hall 255, In Person Term Based; Meets With: 001 RELS 3415W; Anna Seastrand ; 4 cr.  
 55210 002 DIS, 13:25-14:15 M, Hubert H. Humphrey School 20, In Person Term Based; Meets With: 002 RELS 3415W; 4 cr.  
 55211 004 DIS, 10:10-11:00 W, Hubert H. Humphrey School 60, In Person Term Based; Meets With: 004 RELS 3415W; 4 cr.

**3018 Art of the Ottoman Empire****(Student Option; )**

- 66451 001 LEC, 11:15-12:30 TTh, Blegen Hall 135, In Person Term Based; Sinem Casale ; 3 cr.

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

- 66452 001 LEC, 10:10-11:00 MWF, Blegen Hall 255, In Person Term Based; Michael Gaudio ; 3 cr.

**3312 European Art of the Eighteenth Century: Rococo to Revolution****(Student Option; HIS)**

- 66453 001 LEC, 09:45-11:00 TTh, Blegen Hall 130, In Person Term Based; Steven Ostrow ; 3 cr.

**3335 Baroque Rome: Art and Politics in the Papal Capital****(Student Option; HIS)**

- 55895 001 LEC, 13:00-14:15 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 RELS 3612001 RELS 5612001 ARTH 5335; Steven Ostrow ; 3 cr.

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

- 66454 001 LEC, 13:00-14:15 TTh, Blegen Hall 5, In Person Term Based; Emily Capper ; 3 cr.

**3481 Curatorial Practice Field Experience****(A-F only; )**

- 68261 001 FWK, 13:00-14:15 MW, Weisman Art Museum 111, In Person Term Based; Daniel Greenberg ; 3 cr.

**3655 African-American Cinema****(Student Option; AH,DSJ)**

- 66455 001 LEC, 12:20-14:15 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 AFRO 3655001 ARTH 5655; Robert Silberman ; 3 cr.

**3777 The Diversity of Traditions: Indian Empires after 1200****(Student Option; Prerequisites for this course.)**

- 66456 001 LEC, 13:00-14:15 MW, Blegen Hall 250, In Person Term Based; Meets With: 001 ARTH 5777001 RELS 5777001 RELS 3777; Anna Seastrand ; 3 cr.

**3896 Directed Professional Experience****(Student Option; Prereq: instr consent)**

- 53814 001 IND, 00:00-00:00 , , In Person Term Based; Laura Kalba ; 1-2 cr.

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

- 54524 001 LEC, 12:20-14:15 TTh, Blegen Hall 10, In Person Term Based; Robert Silberman ; 4 cr.

54525 002 DIS, 12:20-13:10 M, Blegen Hall 205, In Person Term Based; 4 cr.

68742 003 DIS, 12:20-13:10 W, Blegen Hall 205, In Person Term Based; 4 cr.

**3971V Honors: Art History Capstone****(A-F only; WI)**

55372 002 IND, 15:00-17:30 Th, Blegen Hall 220, In Person Term Based; Meets With: 002 ARTH 3971W; 3 cr.

**3971W Art History Capstone****(A-F only; Prereq: ArH major, instr consentWI)**

54584 002 IND, 15:00-17:30 Th, Blegen Hall 220, In Person Term Based; Meets With: 002 ARTH 3971V; 3 cr.

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

- 53815 001 IND, 00:00-00:00 , , In Person Term Based; Jane Blocker ; 1-4 cr.  
 53841 002 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 53842 003 IND, 00:00-00:00 , , In Person Term Based; Michael Gaudio ; 1-4 cr.  
 53843 004 IND, 00:00-00:00 , , In Person Term Based; Sinem Casale ; 1-4 cr.  
 53844 005 IND, 00:00-00:00 , , In Person Term Based; Jennifer Marshall ; 1-4 cr.  
 53845 006 IND, 00:00-00:00 , , In Person Term Based; Steven Ostrow ; 1-4 cr.  
 53846 007 IND, 00:00-00:00 , , In Person Term Based; Robert Silberman ; 1-4 cr.

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

- 53816 001 IND, 00:00-00:00 , , In Person Term Based; Jane Blocker ; 1-4 cr.  
 54356 002 IND, 00:00-00:00 , , In Person Term Based; Sinem Casale ; 1-4 cr.  
 54357 003 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 54358 004 IND, 00:00-00:00 , , In Person Term Based; Michael Gaudio ; 1-4 cr.  
 54359 005 IND, 00:00-00:00 , , In Person Term Based; Jennifer Marshall ; 1-4 cr.  
 54360 006 IND, 00:00-00:00 , , In Person Term Based; Steven Ostrow ; 1-4 cr.  
 54361 007 IND, 00:00-00:00 , , In Person Term Based; Robert Silberman ; 1-4 cr.  
 54362 008 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 54363 009 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 54364 010 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 54639 011 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**5252 History of Early Christian Art in Context****(Student Option; )**

68263 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey School 15, In Person Term Based; Jennifer Awes-Freeman ; 3 cr.

**5335 Baroque Rome: Art and Politics in the Papal Capital****(Student Option; )**

55896 001 LEC, 13:00-14:15 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 RELS 3612001 RELS 5612001 ARTH 5335; Steven Ostrow ; 3 cr.

**5413 Alternative Media: Video, Performance, Digital Art****(A-F or Audit; Prereq: 3464 or instr consent)**

55374 001 LEC, 11:15-12:30 MW, Blegen Hall 120, In Person Term Based; Emily Capper ; 3 cr.

**5422 Off the Wall: History of Graphic Arts in Europe and America in the Modern Age****(Student Option; )**

56226 001 LEC, 13:00-14:15 MW, Blegen Hall 130, In Person Term Based; Laura Kalba ; 3 cr.

**5565 American Art in the Gilded Age****(Student Option; )**

67693 001 LEC, 11:15-12:30 TTh, Blegen Hall 317, In Person Term Based; Jennifer Marshall ; 3 cr.

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

66457 001 LEC, 12:20-14:15 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 ARTH 3655001 AFRO 3655; Robert Silberman ; 3 cr.

**5777 The Diversity of Traditions: Indian Empires after 1200****(Student Option; )**

66458 001 LEC, 13:00-14:15 MW, Blegen Hall 250, In Person Term Based; Meets With: 001 RELS 3777001 RELS 5777001 ARTH 3777; Anna Seastrand ; 3 cr.

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

- 53817 001 IND, 00:00-00:00 , , In Person Term Based; Jane Blocker ; 1-4 cr.  
 53850 002 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 53851 003 IND, 00:00-00:00 , , In Person Term Based; Sinem Casale ; 1-4 cr.  
 53852 004 IND, 00:00-00:00 , , In Person Term Based; Michael Gaudio ; 1-4 cr.  
 53853 005 IND, 00:00-00:00 , , In Person Term Based; Jennifer Marshall ; 1-4 cr.  
 53854 006 IND, 00:00-00:00 , , In Person Term Based; Steven Ostrow ; 1-4 cr.  
 53855 007 IND, 00:00-00:00 , , In Person Term Based; Robert Silberman ; 1-4 cr.

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

53818 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**Arts and Cultural Leadership (ACL)****5221 Creative Entrepreneurship and Resource Development****(A-F or Audit; )**

65901 001 LEC, 18:00-20:30 M, Carlson School of Mgmt 1-127, In Person Term Based; Stephen Rueff ; 3 cr.

**5231 Ethical Dilemmas and Legal Issues for Cultural Leaders****(A-F or Audit; )**

64670 001 DIS, 18:30-21:00 T, Carlson School of Mgmt 1-136, 18:30-21:00 T, Carlson School of Mgmt 1-136, 18:30-21:00 T, Carlson School of Mgmt 1-136, 18:30-21:00 T, Carlson School of Mgmt 1-136, 18:30-21:00 T, Carlson School of Mgmt 1-136, Partially Online; Lisa Dejoras ; 3 cr.

**5993 Directed Studies****(A-F only; Prereq: Grad student, dept consent)**

64540 001 IND, Independent/Directed Study; 1-4 cr.

**Asian & Middle Eastern Studies (AMES)****1001 Asian Film and Animation****(Student Option; AH,GP)**

56001 001 LEC, 14:30-15:45 TTh, Nicholson Hall 35, In Person Term Based; Suvadip Sinha ; 3 cr.

**3232W "Short" Poetry in China and Japan****(Student Option; WI)**

55940 001 LEC, 09:45-11:00 TTh, Nicholson Hall 335, In Person Term Based; Paul Rouzer ; 3 cr.

**3256 Graphic Novels: Conflict, Peace and Protest****(Student Option; )**

66764 001 LEC, 09:45-11:00 MW, Burton Hall 125, In Person Term Based; Palita Chunsangchan ; 3 cr.

**3265W The Fantastic in East Asia: Ghosts, Foxes, and the Alien****(Student Option; Prereq: Some coursework in East Asia recommendedLITR,WI)**

54793 001 LEC, 13:00-14:15 TTh, Nicholson Hall 275, In Person Term Based; Paul Rouzer ; 3 cr.

**3337 Contemporary Chinese Literature and Popular Culture****(Student Option; GP,LITR)**

54792 001 LEC, 09:45-11:00 MW, Armory Building 116, In Person Term Based; Jason McGrath ; 3 cr.

**3436 Postwar Japanese Literature in Translation**

(Student Option; Prerequisite and assumes no prior knowledge of Japanese cultures or experience with literary analysis. All materials, lectures, and discussions are in English. GP,LITR)

66340 001 LEC, 14:30-15:45 MW, Nicholson Hall 125, In Person Term Based; Christine Marran ; 3 cr.

### 3467 Science Fiction, Empire, Japan

(A-F only ;)

66341 001 LEC, 13:00-14:15 TTh, Nicholson Hall 125, In Person Term Based; Baryon Tensor Posadas ; 3 cr.

### 3556 Korean Film and Media

(Student Option; AH,GP)

66345 001 LEC, 11:15-12:30 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 AMES 5556; Travis Workman ; 3 cr.

### 3587 Current Affairs and Everyday Life in Two Koreas

(Student Option; )

66768 001 LEC, 14:00-15:15 MW, Folwell Hall 108, In Person Term Based; Hangtae Cho ; 3 cr.

### 3651 Ghosts of India

(A-F only; GP)

56164 001 LEC, 11:15-12:30 TTh, Nicholson Hall 315, In Person Term Based; Suvadip Sinha ; 3 cr.

### 3756 Southeast Asian Cinema

(Student Option; )

66765 001 LEC, 13:00-14:15 MW, Nicholson Hall 315, In Person Term Based; Palita Chunsangchan ; 3 cr.

### 3832 The Politics of Arabic Poetry

(A-F only; GP,LITR)

66346 001 LEC, 14:30-15:45 TTh, Peik Hall 155, In Person Term Based; Katrien Vanpee ; 3 cr.

### 3837 Orienting Hebrew Literature

(A-F only; GP,LITR)

66339 001 LEC, 14:30-15:45 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 JWST 3837; Shir Alon ; 3 cr.

### 3993 Directed Study

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

54136 001 IND, Independent/Directed Study; 1-4 cr.

### 4901W Capstone Project in Asian & Middle Eastern Studies

(A-F or Audit; Prereq: AMES major, srWI)

54582 001 LEC, 11:15-12:30 MW, Nicholson Hall 315, In Person Term Based; Nida Sajid ; 3 cr.

### 5486 Images of "Japan"

(A-F only ;)

66342 001 LEC, 16:00-18:30 Th, Folwell Hall 31, In Person Term Based; Baryon Tensor Posadas ; 3 cr.

### 5556 Korean Film and Media

(Student Option; )

69116 001 LEC, 11:15-12:30 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 AMES 3556; Travis Workman ; 3 cr.

### 5837 Arab Prison Writing

(Student Option; )

68267 001 LEC, 16:00-18:30 W, Folwell Hall 4, In Person Term Based; Joseph Farag ; 3 cr.

### 5993 Directed Study

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

53712 001 IND, Independent/Directed Study; Shir Alon ; 1-4 cr.

## Asian American Studies (AAS)

### 1101 Imagining Asian America

(Student Option; DSJ,SOCS)

55190 001 LEC, 14:30-15:45 TTh, Blegen Hall 110, In Person Term Based; SooJin Pate ; 3 cr.

### 3211W Race & Racism in the U.S.

(A-F or Audit; DSJ,WI)

55049 001 LEC, 11:15-12:30 TTh, Blegen Hall 255, In Person Term Based; Meets With: 001 SOC 3211W; Enid Logan ; 3 cr.

### 3251W Sociological Perspectives on Race, Class, and Gender

(A-F or Audit; DSJ,WI,SOCS)

54995 001 LEC, 14:30-15:45 TTh, Blegen Hall 250, In Person Term Based; Meets With: 001 SOC 3251W; Enid Logan ; 3 cr.

### 3341 Asian American Images

(Student Option; AH,DSJ)

55320 001 DIS, 17:30-20:00 M, Blegen Hall 110, In Person Term Based; Meets With: 001 COMM 3341; John Matsunaga ; 3 cr.

### 3409W Asian American Women's Cultural Production

(Student Option; AH,WI,DSJ)

56382 001 DIS, 09:45-11:00 MW, Ford Hall 151, In Person Term Based; Meets With: 001 GWSS 3409W; Rupa Thadhani ; 3 cr.

### 3877 Asian American History, 1850 to Present

(Student Option; DSJ,HIS)

68305 001 LEC, 16:00-18:20 T, Hanson Hall 1-111, In Person Term Based; Meets With: 001 HIST 3877; Erika Lee ; 3 cr.

### 3920 Topics in Asian American Studies

(Student Option; )

68590 001 LEC, 17:00-18:15 TTh, Appleby Hall 311, In Person Term Based; Marlina Gonzalez ; 2-4 cr.

### 3993 Directed Studies in Asian American Studies

(Student Option; Prereq: instr consent)

53972 001 IND, 00:00-00:00 , , In Person Term Based; Teresa Swartz ; 1-9 cr.

### 4311 Asian American Literature and Drama

(A-F or Audit; DSJ,LITR)

66590 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ENGL 4311; Isadora Wagner ; 3 cr.

### 5993 Directed Readings

(Student Option; )

55333 001 IND, In Person Term Based; 1-4 cr.

## Astronomy (AST)

### 1001 Exploring the Universe

(Student Option; ENV,PHYS)

59036 001 LEC, 09:45-11:00 TTh, Tate Hall B50, In Person Term Based; Paul Woodward ; 4 cr.

59037 003 LEC, 14:30-15:45 TTh, Tate Hall B20, In Person Term Based; Claudia Scarlata ; 4 cr.

59038 101 LAB, 09:05-11:00 M, Tate Hall B27, In Person Term Based; 4 cr.

59039 102 LAB, 10:10-12:05 M, Tate Hall B29, In Person Term Based; 4 cr.

59040 104 LAB, 12:20-14:15 M, Tate Hall B29, In Person Term Based; 4 cr.

59041 105 LAB, 13:25-15:20 M, Tate Hall B27, In Person Term Based; 4 cr.

59042 103 LAB, 11:15-13:10 M, Tate Hall B27, In Person Term Based; 4 cr.

59043 109 LAB, 10:10-12:05 T, Tate Hall B29, In Person Term Based; 4 cr.

59044 110 LAB, 11:15-13:10 T, Tate Hall B27, In Person Term Based; 4 cr.

59045 111 LAB, 12:20-14:15 T, Tate Hall B29, In Person Term Based; 4 cr.

59046 114 LAB, 15:35-17:30 T, Tate Hall B27, In Person Term Based; 4 cr.

59048 117 LAB, 11:15-13:10 W, Tate Hall B29, In Person Term Based; 4 cr.

59049 118 LAB, 12:20-14:15 W, Tate Hall B27, In Person Term Based; 4 cr.

59050 116 LAB, 10:10-12:05 W, Tate Hall B27, In Person Term Based; 4 cr.

59554 113 LAB, 14:30-16:25 T, Tate Hall B29, In Person Term Based; 4 cr.

59656 106 LAB, 14:30-16:25 M, Tate Hall B29, In Person Term Based; 4 cr.

61025 002 LEC, 13:00-14:15 TTh, Tate Hall B50, In Person Term Based; Chick Woodward ; 4 cr.

61276 119 LAB, 13:25-15:20 W, Tate Hall B29, In Person Term Based; 4 cr.

61277 123 LAB, 10:10-12:05 Th, Tate Hall B27, In Person Term Based; 4 cr.

61278 124 LAB, 14:30-16:25 Th, Tate Hall B29, In Person Term Based; 4 cr.

61280 126 LAB, 09:05-11:00 F, Tate Hall B27, In Person Term Based; 4 cr.

61281 127 LAB, 10:10-12:05 F, Tate Hall B29, In Person Term Based; 4 cr.

61282 128 LAB, 11:15-13:10 F, Tate Hall B27, In Person Term Based; 4 cr.

69467 107 LAB, 15:35-17:30 M, Tate Hall B27, In Person Term Based; 4 cr.

69468 108 LAB, 09:05-11:00 Th, Tate Hall B29, In Person Term Based; 4 cr.

69469 112 LAB, 13:25-15:20 T, Tate Hall B27, In Person Term Based; 4 cr.

69470 120 LAB, 14:30-16:25 W, Tate Hall B27, In Person Term Based; 4 cr.

69471 121 LAB, 15:35-17:30 W, Tate Hall B29, In Person Term Based; 4 cr.

### 2001 Fundamental Astrophysics

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

59051 001 LEC, 10:10-12:05 TTh, Tate Hall 101, In Person Term Based; Robert Gehrz ; 4 cr.

### 2993 Directed Studies

(Student Option; Prereq: 1 yr calculus, Phys 1302, instr consent)

59052 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60263 002 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60264 003 IND, 00:00-00:00 , , In Person Term Based; Robert Gehrz ; 1-5 cr.

60265 004 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60266 005 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60267 006 IND, 00:00-00:00 , , In Person Term Based; Thomas Jones ; 1-5 cr.

60268 007 IND, 00:00-00:00 , , In Person Term Based; Larry Rudnick ; 1-5 cr.

60283 008 IND, 00:00-00:00 , , In Person Term Based; Claudia Scarlata ; 1-5 cr.

60369 009 IND, 00:00-00:00 , , In Person Term Based; Evan Skillman ; 1-5 cr.

60370 010 IND, 00:00-00:00 , , In Person Term Based; Liliya Williams ; 1-5 cr.

60371 011 IND, 00:00-00:00 , , In Person Term Based; Chick Woodward ; 1-5 cr.

61024 012 IND, 00:00-00:00 , , In Person Term Based; Paul Woodward ; 1-5 cr.

### 4002 Astrophysics II

(A-F or Audit; Prereq: 2001, Phys 2601)

59844 001 LEC, 10:10-12:05 TTh, Tate Hall B85, 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)

59055 001 LEC, 14:30-15:20 F, Tate Hall B45, In Person Term Based; Meets With: 001 AST 8200; Chick Woodward ; 1 cr.

### 4993 Directed Studies

(Student Option; Prereq: 2001, instr consent)

59053 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60269 002 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60270 003 IND, 00:00-00:00 , , In Person Term Based; Robert Gehrz ; 1-5 cr.

60271 004 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60272 005 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

60273 006 IND, 00:00-00:00 , , In Person Term Based; Thomas Jones ; 1-5 cr.

60274 007 IND, 00:00-00:00 , , In Person Term Based; Larry Rudnick ; 1-5 cr.

60284 008 IND, 00:00-00:00 , , In Person Term Based; Claudia Scarlata ; 1-5 cr.

60366 009 IND, 00:00-00:00 , , In Person Term Based; Evan Skillman ; 1-5 cr.

60367 010 IND, 00:00-00:00 , , In Person Term Based; Liliya Williams ; 1-5 cr.

60368 011 IND, 00:00-00:00 , , In Person Term Based; Chick Woodward ; 1-5 cr.

60838 012 IND, 00:00-00:00 , , In Person Term Based; Paul Woodward ; 1-5 cr.

### 4994W Directed Research

(A-F only; WI)

59054 024 IND, 00:00-00:00 , , In Person Term Based; Lindsay Glesener ; 2-5 cr.

60275 002 IND, 00:00-00:00 , , In Person Term Based; Patrick Kelly ; 2-5 cr.

60276 003 IND, 00:00-00:00 , , In Person Term Based; Robert Gehrz ; 2-5 cr.  
 60277 004 IND, 00:00-00:00 , , In Person Term Based; Ken Heller ; 2-5 cr.  
 60278 005 IND, 00:00-00:00 , , In Person Term Based; Terry Jones ; 2-5 cr.  
 60279 006 IND, 00:00-00:00 , , In Person Term Based; Thomas Jones ; 2-5 cr.  
 60280 007 IND, 00:00-00:00 , , In Person Term Based; Larry Rudnick ; 2-5 cr.  
 60285 008 IND, 00:00-00:00 , , In Person Term Based; Claudia Scarlata ; 2-5 cr.  
 60363 009 IND, 00:00-00:00 , , In Person Term Based; Evan Skillman ; 2-5 cr.  
 60364 010 IND, 00:00-00:00 , , In Person Term Based; Liliya Williams ; 2-5 cr.  
 60365 011 IND, 00:00-00:00 , , In Person Term Based; Chick Woodward ; 2-5 cr.  
 60969 012 IND, 00:00-00:00 , , In Person Term Based; Paul Woodward ; 2-5 cr.  
 60970 013 IND, 00:00-00:00 , , In Person Term Based; Cynthia Cattell ; 2-5 cr.  
 60971 014 IND, 00:00-00:00 , , In Person Term Based; Priscilla Cushman ; 2-5 cr.  
 60972 015 IND, 00:00-00:00 , , In Person Term Based; Lucy Fortson ; 2-5 cr.  
 60973 016 IND, 00:00-00:00 , , In Person Term Based; Shaul Hanany ; 2-5 cr.  
 60974 017 IND, 00:00-00:00 , , In Person Term Based; Robert Lysak ; 2-5 cr.  
 60975 018 IND, 00:00-00:00 , , In Person Term Based; Vuk Mandic ; 2-5 cr.  
 60976 019 IND, 00:00-00:00 , , In Person Term Based; Keith Olive ; 2-5 cr.  
 60977 020 IND, 00:00-00:00 , , In Person Term Based; Marco Peloso ; 2-5 cr.  
 60978 021 IND, 00:00-00:00 , , In Person Term Based; Clement Pryke ; 2-5 cr.  
 60979 022 IND, 00:00-00:00 , , In Person Term Based; Yongzhong Qian ; 2-5 cr.  
 60980 023 IND, 00:00-00:00 , , In Person Term Based; John Wygant ; 2-5 cr.

### 5012 The Interstellar Medium

(Student Option; Prereq: 2001, Phys 2601 or instr consent)  
 68169 001 LEC, 13:25-15:20 TTh, Tate Hall B65, In Person Term Based; Evan Skillman ; 4 cr.

### 5201 Methods of Experimental

**Astrophysics**  
 (Student Option; Prereq: Upper div CSE or grad or instr consent)  
 61644 001 LEC, 13:00-14:15 MW, Tate Hall B85, In Person Term Based; Patrick Kelly ; 4 cr.

## Biochemistry (BIOC)

### 3021 Biochemistry

(Student Option; Prerequisites: Introductory biology (BIOL 1009 or BIOL 2003 or equivalent), organic chemistry (CHEM 2301 or CHEM 2081/2085 or equivalent). Note: CBS students should take BIOC 3022 not 3021.)  
 50778 090 LEC, 00:00-00:00 , ONLINE, Completely Online; Robert Roon ; 3 cr.  
 50779 001 LEC, 13:30-14:45 TTh, Ruttan Hall B45, In Person Term Based; Meets With: 002 BIOC 6021; Douglas Ohlendorf ; 3 cr.  
 50780 002 LEC, 09:45-11:00 TTh, Bruininks Hall 230, In Person Term Based; Meets With: 003 BIOC 6021; Kenneth Adolph ; 3 cr.

### 3022 Biochemistry for Life Scientists

(Student Option; Prereq: CHEM 2301 or CHEM 2081/2085 or equivalent)  
 50851 001 LEC, 14:30-15:45 TTh, Molecular Cellular Biol 3-120, In Person Term Based; David Bernlohr, Christina Camell ; 3 cr.  
 50853 002 LEC, 16:00-17:15 TTh, Bruininks Hall 312, In Person Term Based; Janet Schottel ; 3 cr.

### 4025W Laboratory in Biochemistry

(Student Option; Prereq: 3021, 3022, or 4331 or equivW)  
 50522 001 LEC, 15:35-16:25 M, Molecular Cellular Biol 3-120, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
 50523 002 LAB, 08:15-11:55 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
 50524 003 LAB, 13:15-16:55 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
 50525 004 LAB, 08:15-11:55 Th, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.

50526 005 LAB, 13:15-16:55 Th, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
 50527 006 LAB, 17:20-21:00 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
 50528 007 LAB, 17:20-21:00 Th, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.

### 4325 Laboratory in Mass Spectrometry

(S-N only; Prereq: 4332, 4521)  
 68495 001 LAB, 08:30-12:00 F, Molecular Cellular Biol 2-122, 08:30-12:00 TWTh, Gortner Laboratory 239, In Person Term Based; Timothy Griffin ; 1 cr.

### 4331 Biochemistry I: Structure, Catalysis, and Metabolism in Biological Systems

(Student Option; Prereq: (BIOL 1009 or 2003 or equiv) AND (Chem 2302 or CHEM 2081/2085 or equiv))  
 50673 001 LEC, 14:30-15:20 MTWTh, Mayo Bldg & Additions C231, In Person Term Based; Michael Freeman, Carrie Wilmot ; 4 cr.

### 4332 Biochemistry II: Molecular Mechanisms of Signal Transduction and Gene Expression

(Student Option; Prereq: BioC 4331 or Bioc 3201 or BioC 3022)  
 50529 001 LEC, 12:20-14:15 TTh, Mayo Bldg & Additions C231, In Person Term Based; Alexandra Sobock, Eric Hendrickson ; 4 cr.

### 4521 Introduction to Physical Biochemistry

(Student Option; Prereq: 4331 recommended, (Chem 1081 or 1061 and 1065) AND (Physics 1221 or 1201W or 1301W) required)  
 50717 001 LEC, 09:05-09:55 MWF, Molecular Cellular Biol 2-122, In Person Term Based; Kevin Mayo ; 3 cr.

### 4793W Directed Studies: Writing Intensive

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.WI)  
 50644 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

### 4794W Directed Research: Writing Intensive

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.WI)  
 50645 001 IND, 10:00-10:50 F, Bruininks Hall 123, In Person Term Based; 1-7 cr.  
 51012 002 IND, In Person Term Based; 1-7 cr.

### 4993 Directed Studies

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)  
 50607 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

### 4994 Directed Research

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)  
 50608 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50692 002 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50693 003 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50694 004 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50695 005 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50697 006 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50698 007 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50699 008 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50700 009 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50701 010 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50702 011 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50703 012 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50704 013 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50705 014 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

50706 015 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50707 016 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50708 017 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50709 018 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50710 019 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
 50711 020 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

### 5002 Critical Evaluation of Biochemistry Research

(S-N only;)  
 50908 001 DIS, 15:35-16:25 TTh, Mayo Bldg & Additions C231, In Person Term Based; Laurie Parker ; 1 cr.

### 5216 Current Topics in Signal Transduction

(A-F only;)  
 50791 001 LEC, 13:00-14:40 MW, Moos Health Sci Tower 2-118, In Person Term Based; Do-Hyung Kim ; 2 cr.

### 5225 Graduate Laboratory in NMR

**Techniques**  
 (S-N only; Prereq: 8001 or instr consent)  
 50731 002 LAB, In Person Term Based; 1 cr.  
 50995 001 LEC, 10:00-18:00 MTWTh, Room TBA, In Person Term Based; Todd Rappe ; 1 cr.

### 5309 Biocatalysis and Biodegradation

(Student Option;)  
 50841 001 LEC, 08:45-10:00 TTh, Gortner Laboratory 239, In Person Term Based; Lawrence Wackett ; 3 cr.

### 5352 Biotechnology and Bioengineering for Biochemists

(A-F or Audit; Prerequisites: Biochemistry (BIOC 3021 or 3022 or 4331) and Microbiology MICB 3301 )  
 50690 001 LEC, 13:30-14:45 MW, Gortner Laboratory 239, In Person Term Based; Claudia Schmidt-Dannert ; 3 cr.

### 5444 Muscle

(Student Option; Prereq: 3021 or BIOL 3021 or 4331 or BIOL 4331 or PHSL 3061 or instr consent)  
 50651 001 LEC, 16:00-17:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 PHSL 5444; Vincent Barnett, David Thomas ; 3 cr.

### 5528 Spectroscopy and Kinetics

(Student Option; Prereq: Intro physical chemistry or equiv; intro biochemistry recommended)  
 50652 001 LEC, 10:10-12:05 TTh, Civil Engineering Bldg 212, In Person Term Based; David Thomas ; 4 cr.

### 5960 Biophysical Spectroscopy

(A-F only; Prereq: [[3021 or equiv], CHEM 2301]] or instr consent or grad)  
 69572 001 LEC, 10:00-11:15 Th, Room TBA, In Person Term Based; 2 cr.

## Bioethics, Center for (BTHX)

### 5000 Topics in Bioethics

(Student Option;)  
 65645 002 LEC, 09:00-11:30 W, ONLINE BLENDED, 09:00-11:30 W, Walter W Heller Hall 731, Partially Online; Meets With: 002 BTHX 8000003 PHIL 5760; Carl Elliott ; 1-4 cr.  
 68566 001 LEC, 15:30-17:10 W, Twin Cities Remote, Completely Online; Debra DeBruin ; 1-4 cr.

### 5100 Introduction to Clinical Ethics

(Student Option;)  
 67681 001 LEC, 15:30-18:00 Th, ONLINE BLENDED, 15:30-18:00 Th, Health Sci Ed Ctr 4103/4105, Partially Online; Joan Henriksen ; 3 cr.

### 5900 Independent Study in Bioethics

(Student Option; Prereq: instr consent)  
 49864 001 IND, 00:00-00:00 , , Independent/Directed Study; Debra DeBruin ; 1-4 cr.  
 49865 003 IND, 00:00-00:00 , , Independent/Directed Study; Carl Elliott ; 1-4 cr.

## Biology (BIOL)

### 1001 Introductory Biology: Evolutionary and Ecological Perspectives

**(Student Option; Prerequisites for allied health grad programs.BIOL)**

50554 001 LEC, 14:30-15:45 TTh, Willey Hall 125, In Person Term Based; Charles Willis ; 4 cr.  
 50555 002 LAB, 10:10-12:05 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50556 003 LAB, 12:20-14:15 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50557 004 LAB, 14:30-16:25 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50558 005 LAB, 16:40-18:35 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50559 007 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50560 008 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50561 010 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50562 011 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50563 014 LAB, 20:00-21:55 Th, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50564 015 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50624 013 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50625 012 LAB, 14:30-16:35 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50626 006 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50666 009 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 50864 090 LEC, Completely Online; Charles Willis ; 4 cr.  
 66333 091 LEC, Completely Online; Charles Willis ; 4 cr.  
 67895 016 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
 68973 092 LEC, Completely Online; Charles Willis ; 4 cr.  
 69504 093 LEC, Completely Online; Charles Willis ; 4 cr.

**1003 Evolution and Biology of Sex****(Student Option; Prerequisites for allied health grad programs.BIOL)**

50736 001 LEC, 09:45-11:00 MW, Bruininks Hall 312, In Person Term Based; Kristina Prescott ; 4 cr.  
 50737 002 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50738 003 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50739 004 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50740 005 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50741 006 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50772 020 LEC, 11:15-12:30 MW, Bruininks Hall 312, In Person Term Based; Kristina Prescott ; 4 cr.  
 50773 021 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50774 022 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50775 023 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50776 024 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50777 025 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
 50802 030 LEC, 09:45-11:00 TTh, Bruininks Hall 220, In Person Term Based; Mark Decker ; 4 cr.  
 50803 031 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50804 032 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50805 033 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50806 034 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50807 035 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50845 036 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50846 037 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50847 038 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
 50848 039 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.

**1009 General Biology****(Student Option; Prerequisite and requirement in many majors. BIOL)**

50535 001 LEC, 09:45-11:00 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Cheryl Scott ; 4 cr.  
 50536 002 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50537 003 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.

50538 004 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50539 005 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50540 007 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50541 008 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50542 009 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50543 010 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50544 011 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50545 044 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50546 045 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50547 046 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50548 047 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50667 006 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50718 030 LEC, Completely Online; Sue Gibson ; 4 cr.  
 50719 031 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50720 032 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 50721 033 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50722 034 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50723 035 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 50724 036 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50725 037 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50726 038 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50730 048 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50750 039 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 50753 040 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50801 041 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50809 042 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 50849 043 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 50897 090 LEC, Completely Online; Brian Gibbens ; 4 cr.  
 66400 091 LEC, Completely Online; Brian Gibbens ; 4 cr.

**1009H Honors: General Biology****(A-F only; Prerequisite and requirement in many majors.BIOL)**

50656 001 LEC, 13:00-14:15 TTh, Bruininks Hall 131A, In Person Term Based; Cheryl Scott ; 4 cr.  
 50657 081 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 66334 082 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

**1012 Human Biology: Concepts and****Current Ethical Issues**

**(Student Option; Prerequisites for allied health grad programs. This course explores several interdisciplinary questions, each of which addresses biology through an ethical and societal lens. In ? What makes humans unique?? we will consider the evolution of human traits, how the concept of race relates to human genetic diversity, and the fallibility of human memories. In ?How does blood and organ donation work?? we will examine how our bodies can recognize and respond to foreign materials, how vaccines work, and who should have access to life saving tissue and organ transplants. In ?How do stress, diet and exercise affect health?? we will consider disparities in access to adequate nutrition, exposure to stress, and exercise, and how these affect our bodies and our mental health. Lastly, in ? How does a unique individual develop from a single cell? we will examine how a single cell develops into a fully functional human being, and how similar processes lead to cancer. We will also consider the role of genes and hormones in human reproduction and the development of reproductive structures in embryos, while explicitly addressing the ethics of the distinctions between the concepts of sex characteristics, sex assigned at birth, and gender. We will learn how a cell can become cancerous, as well as how a cell develops into a fully functioning human being. Additionally, we will consider the role**

**of hormones in the development of male, female, and intersex organs, while being explicit about the differences between gender, sexual orientation, and sex assigned at birth. In lecture, instructors and teaching assistants will support students as they evaluate data and work through concepts in teams. Students will also dedicate significant time to the consideration of ethical questions in human biology, and work with teammates to organize and present a position on a policy related to an ethics question. In lab, students will further explore human anatomy and physiology, connecting structure and function through several dissections and activities. Students will read and share scientific papers, make observations, design experiments and analyze data. Students will work in teams to complete a multi-week project on the physiology of stress. We will continue our exploration of ethics topics in lab, where we will discuss and apply ethics in human subjects research and research on non-human animals. About ? of the course grade will be based on four traditional lecture exams and a final lab exam. The remainder of the course grade is comprised of open notes quizzes, in class team assignments, individual assignments, and team projects. Course grading is based on mastery of concepts and skills, and students are encouraged to collaborate in understanding course material.BIOL,CIV)**  
 50756 001 LEC, 13:25-14:15 MWF, Bruininks Hall 412, In Person Term Based; Kristina Prescott, Sarah Malmquist ; 4 cr.

50757 002 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50759 004 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50760 005 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50761 006 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50765 020 LEC, 14:30-15:20 MWF, Bruininks Hall 412, In Person Term Based; Kristina Prescott, Sarah Malmquist ; 4 cr.  
 50766 021 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50767 022 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50768 023 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50769 024 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50787 007 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 50788 026 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.

**1015 Human Physiology, Technology, and Medical Devices****(Student Option; Prerequisites for most biomedical graduate programs.BIOL,TS)**

50859 001 LEC, 11:15-12:30 TTh, Bruininks Hall 131B, In Person Term Based; Murray Jensen ; 4 cr.  
 50860 002 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 50861 003 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 50862 004 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 50926 010 LEC, 13:00-14:15 TTh, Bruininks Hall 131B, In Person Term Based; Murray Jensen ; 4 cr.  
 50927 011 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 50928 012 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 50929 013 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.

**1020 Biology Colloquium****(S-N or Audit; )**

68784 002 LEC, 14:30-15:20 T, Rapson Hall 45, In Person Term Based; Forest McMillan ; 1 cr.

**1052 Environmental Biology: Science and Solutions****(Student Option; ENV)**

50762 001 LEC, 11:15-12:30 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Meets With: 001 BIOL 1055; Deena Wassenberg ; 3 cr.

**1055 Environmental Biology: Science and Solutions with Laboratory****(Student Option; BIOL,ENV)**

50794 001 LEC, 11:15-12:30 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Meets With: 001 BIOL 1052; Deena Wassenberg ; 4 cr.  
 50795 002 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

50796 003 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 50797 004 LAB, 08:00-09:55 F, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 50798 005 LAB, 10:10-12:05 F, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

### 1101 Genetics and Society

(Student Option; Prereq: Credit will not be granted if credit has been received for: BIOL 3020, Biol 4003, GCD 3022. No CBS Major Juniors or Seniors.CIV)  
 50763 001 LEC, 09:45-11:00 MW, Bruininks Hall 330, In Person Term Based; Ann Rougvie ; 3 cr.

### 1301 Dean's Scholar: Introduction to Leadership

(S-N only; Prereq: Dean's Scholar)  
 50855 001 DIS, 09:05-10:20 M, Bruininks Hall 123, In Person Term Based; Terra Brister ; 1 cr.  
 50856 002 DIS, 11:15-12:30 T, Bruininks Hall 117, In Person Term Based; Tony Och ; 1 cr.  
 50857 003 DIS, 14:30-15:45 Th, Bruininks Hall 117, In Person Term Based; Alexa Squire ; 1 cr.

### 1806 Nature of Life, Part Two

(S-N only; Prereq: 1805)  
 50785 001 LEC, 12:20-13:10 F, Willey Hall 175, 12:20-13:10 F, Bruininks Hall 412, 12:20-13:10 F, Keller Hall 3-230, 12:20-13:10 F, Molecular Cellular Biol 3-120, 12:20-13:10 F, Bruininks Hall 312, 12:20-13:10 F, Nicholson Hall 35, 12:20-13:10 F, Bruininks Hall 432, 12:20-13:10 F, Bruininks Hall 330, 12:20-13:10 F, Rapson Hall 56, In Person Term Based; Frances Wood ; 0.5 cr.

### 1915 Genomics in Your Current and Future Life

(A-F only ;)  
 66243 001 LEC, 14:30-15:45 T, Nils Hasselmo Hall 4-101, In Person Term Based; Perry Hackett ; 1 cr.

### 1928 Inventing Nature: The Art and Science of Natural History

(A-F only ;)  
 66146 001 LEC, 09:20-11:00 F, Bruininks Hall 420A, In Person Term Based; Charles Willis ; 2 cr.

### 1951 Foundations of Biology Lecture I for Biological Sciences Majors

(A-F only; BIOL)  
 50867 001 LEC, 08:00-09:55 MWF, Bruininks Hall 131B, In Person Term Based; Meets With: 001 BIOL 1951H; Robin Wright ; 4 cr.  
 50868 002 LEC, 10:10-12:05 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 1951H; David Matthes, ; 4 cr.  
 50869 003 LEC, 13:25-15:20 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 003 BIOL 1951H; David Kirkpatrick, Anna Mosser ; 4 cr.  
 66347 004 LEC, 10:10-12:05 MWF, Twin Cities Remote, Completely Online; Meets With: 004 BIOL 1951H; Tamar Resnick, Anna Mosser ; 4 cr.

### 1951H Foundations of Biology Lecture I for Biological Sciences Majors

(A-F only; BIOL)  
 50870 001 LEC, 08:00-09:55 MWF, Bruininks Hall 131B, In Person Term Based; Meets With: 001 BIOL 1951; Robin Wright ; 4 cr.  
 50871 002 LEC, 10:10-12:05 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 1951; David Matthes, ; 4 cr.  
 50872 003 LEC, 13:25-15:20 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 003 BIOL 1951; David Kirkpatrick, Anna Mosser ; 4 cr.  
 66348 004 LEC, 10:10-12:05 MWF, Twin Cities Remote, Completely Online; Meets With: 004 BIOL 1951; Tamar Resnick, Anna Mosser ; 4 cr.

### 1961 Foundations of Biology Lab I for Biological Sciences Majors

(A-F only; BIOL)  
 50873 001 LAB, 13:00-16:00 MW, Biological Science Ctr 282, In Person Term Based; 2 cr.  
 50874 002 LAB, 13:00-16:00 MW, Biological Science Ctr 286, In Person Term Based; 2 cr.  
 50875 003 LAB, 13:00-16:00 MW, Biological Science Ctr 343, In Person Term Based; 2 cr.  
 50876 004 LAB, 13:00-16:00 MW, Biological Science Ctr 347, In Person Term Based; 2 cr.  
 50877 005 LAB, 13:00-16:00 MW, Biological Science Ctr 355, In Person Term Based; 2 cr.  
 50878 006 LAB, 17:10-20:10 MW, Biological Science Ctr 282, In Person Term Based; 2 cr.

50879 007 LAB, 17:10-20:10 MW, Biological Science Ctr 286, In Person Term Based; 2 cr.  
 50880 008 LAB, 17:10-20:10 MW, Biological Science Ctr 343, In Person Term Based; 2 cr.  
 50881 009 LAB, 17:10-20:10 MW, Biological Science Ctr 347, In Person Term Based; 2 cr.  
 50882 010 LAB, 17:10-20:10 MW, Biological Science Ctr 355, In Person Term Based; 2 cr.  
 50883 011 LAB, 08:30-11:30 TTh, Biological Science Ctr 282, In Person Term Based; 2 cr.  
 50884 012 LAB, 08:30-11:30 TTh, Biological Science Ctr 286, In Person Term Based; 2 cr.  
 50885 013 LAB, 08:30-11:30 TTh, Biological Science Ctr 343, In Person Term Based; 2 cr.  
 50886 014 LAB, 08:30-11:30 TTh, Biological Science Ctr 347, In Person Term Based; 2 cr.  
 50887 015 LAB, 08:30-11:30 TTh, Biological Science Ctr 355, In Person Term Based; 2 cr.  
 50888 016 LAB, 13:00-16:00 TTh, Biological Science Ctr 282, In Person Term Based; 2 cr.  
 50889 017 LAB, 13:00-16:00 TTh, Biological Science Ctr 286, In Person Term Based; 2 cr.  
 50890 018 LAB, 13:00-16:00 TTh, Biological Science Ctr 343, In Person Term Based; 2 cr.  
 50891 019 LAB, 13:00-16:00 TTh, Biological Science Ctr 347, In Person Term Based; 2 cr.  
 50892 020 LAB, 13:00-16:00 TTh, Biological Science Ctr 355, In Person Term Based; 2 cr.  
 50893 021 LAB, 17:10-20:10 TTh, Biological Science Ctr 282, In Person Term Based; 2 cr.  
 50894 022 LAB, 17:10-20:10 TTh, Biological Science Ctr 286, In Person Term Based; 2 cr.  
 50895 023 LAB, 17:10-20:10 TTh, Biological Science Ctr 343, In Person Term Based; 2 cr.  
 50896 024 LAB, 17:10-20:10 TTh, Biological Science Ctr 347, In Person Term Based; 2 cr.

### 2001 Career Planning for Biologists

(S-N or Audit ;)  
 68338 001 DIS, 14:30-15:20 T, Mechanical Engineering 321, In Person Term Based; Mary Shannon Bocock ; 1 cr.

### 2003 Foundations of Biology for Biological Sciences Majors, Part II

(A-F only ;)  
 50712 001 LEC, 11:15-13:10 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 2003H; Brian Gibbens, Peter Kennedy ; 3 cr.  
 50713 002 LEC, 13:25-15:20 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 2003H; Tamar Resnick, Deena Wassenberg ; 3 cr.

### 2003H Foundations of Biology for Biological Sciences Majors, Part II

(A-F only ;)  
 50727 001 LEC, 11:15-13:10 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 2003; Brian Gibbens, Peter Kennedy ; 3 cr.  
 50728 002 LEC, 13:25-15:20 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 2003; Tamar Resnick, Deena Wassenberg ; 3 cr.

### 2005 Animal Diversity Laboratory

(Student Option ;)  
 50592 001 LAB, 09:35-12:35 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50593 002 LAB, 13:55-16:55 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50594 003 LAB, 18:10-21:10 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50595 004 LAB, 09:35-12:35 W, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50596 005 LAB, 13:55-16:55 W, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50597 006 LAB, 15:00-18:00 W, Biological Sciences Ctr 182, In Person Term Based; 2 cr.  
 50598 007 LAB, 09:35-12:35 Th, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50599 008 LAB, 13:55-16:55 Th, Biological Sciences Ctr 107, In Person Term Based; 2 cr.  
 50600 009 LAB, 11:45-14:45 F, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

### 2007 Marine Animal Diversity Laboratory

(A-F only; Prereq/coreq: BIOL 2005 or BIOL 2012)  
 50808 001 LAB, 12:50-15:50 Th, Biological Sciences Ctr 182, In Person Term Based; 1 cr.

### 2012 General Zoology

(Student Option; Prereq: One semester of college biology)  
 50580 001 LEC, 09:35-10:25 MWF, Ruttan Hall B35, In Person Term Based; Adam Engelhardt ; 4 cr.  
 50581 002 LAB, 08:30-11:30 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

50582 003 LAB, 12:50-15:50 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.  
 50583 004 LAB, 17:10-20:10 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.  
 50584 005 LAB, 10:40-13:40 W, Biological Sciences Ctr 182, In Person Term Based; 4 cr.  
 50687 006 LAB, 08:30-11:30 Th, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

### 2101 Brewing: The Biology, History, and Practice

(A-F only; Prereq: BIOL 1001 or 1009 or 1951 or 2002 or 2003 or 2004 Students must be 21 by the first day of class to register, we will check IDs on the first day of class. There are three required field trips. For the field trips students meet in McNeal Hall at 1:00pm and return approximately at 5pm to McNeal Hall.)  
 50840 001 LEC, 17:00-17:50 W, McNeal Hall 144, In Person Term Based; James Cotner, Dana Davis ; 3 cr.  
 50906 002 LAB, 18:00-20:00 W, McNeal Hall 126, In Person Term Based; James Cotner, Dana Davis ; 3 cr.

### 2301 Dean's Scholar: Critical Service Learning

(S-N only; Prereq: 1301, CBS Dean's Scholar)  
 50783 002 DIS, 10:10-12:05 Th, Bruininks Hall 117, In Person Term Based; Aryn Lipnicki ; 2 cr.

### 2906 Nature of Life, Part IV

(S-N only; Prereq: 2905)  
 50811 001 IND, 00:00-00:00 , ONLINE, Completely Online; Frances Wood ; 0.5 cr.

### 2960H Exploring Research in the Biological Sciences

(A-F only; Prereq: CBS, Honors program, soph, dept consent)  
 66630 001 LEC, 11:15-12:30 T, Bruininks Hall 131A, In Person Term Based; Dana Davis ; 1 cr.

### 2996 Directed Introduction to Research (S-N only ;)

66402 001 IND, Independent/Directed Study; 1 cr.

### 3004 Foundations of Biology for Biological Sciences Majors, Part II Laboratory

(A-F only; Prereq: Foundations of Biology Lab I: BIOL 1961, 1961H, 2002, or 2002H AND CHEM 1021, 1061, 1071H, or 1081. Credit will not be granted if credit has been received for: BIOL 3004H.)  
 50979 001 LEC, 08:30-10:25 T, Ecology Building 170, In Person Term Based; 3 cr.  
 50980 002 LEC, 12:50-14:45 W, Ecology Building 170, In Person Term Based; 3 cr.  
 50981 003 LEC, 16:05-18:00 Th, Ecology Building 170, In Person Term Based; 3 cr.  
 50982 004 LEC, 16:05-18:00 T, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50983 005 LEC, 13:55-15:50 W, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50984 006 LEC, 08:30-10:25 Th, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50985 007 LEC, 08:30-10:25 T, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50986 008 LEC, 11:45-13:40 W, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50987 009 LEC, 16:05-18:00 W, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50988 010 LEC, 16:05-18:00 Th, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50989 011 LEC, 13:55-15:50 F, Biological Sciences Ctr 12, In Person Term Based; 3 cr.  
 50990 012 LEC, 16:05-18:00 T, Ecology Building 170, In Person Term Based; 3 cr.  
 50991 013 LEC, 10:40-12:35 W, Ecology Building 170, In Person Term Based; 3 cr.  
 67988 014 LEC, 15:00-16:55 W, Ecology Building 170, In Person Term Based; 3 cr.  
 67989 015 LEC, 08:30-10:25 Th, Ecology Building 170, In Person Term Based; 3 cr.  
 67990 016 LEC, 15:00-16:55 F, Ecology Building 170, In Person Term Based; 3 cr.  
 67991 017 LEC, 09:35-11:30 F, Ecology Building 170, In Person Term Based; 3 cr.

### 3015 Molecular Biology

(Student Option ;)  
 67795 001 LEC, 11:15-12:05 MW, Molecular Cellular Biol 2-120, In Person Term Based; Anath Das ; 2 cr.

### 3025 Molecular Biology and Society

(Student Option; Prerequisites include BIOL2003/2003H or [BIOL1009/1009H AND Chem1061/1061H].TS)

50842 001 LEC, 14:30-15:45 MW, Bruininks Hall 312, In Person Term Based; Aaron Engelhart ; 3 cr.  
 50854 002 LEC, 10:15-11:30 TTh, Biological Sciences Ctr 64, In Person Term Based; Kathryn Fixen, Jeffrey Gralnick ; 3 cr.  
 50902 003 LEC, 13:00-14:15 TTh, Bruininks Hall 312, In Person Term Based; Kate Adamala ; 3 cr.

**3051 Genome Editing and Engineering**  
 (Student Option; Prerequisites: Introductory biology such as Biol 1951 and 2003, Biol 1009 or BMEN 2501TS)

66535 001 LEC, 10:15-11:30 TTh, Alderman Hall 405, In Person Term Based; Kyle Costa, Feng Zhang ; 3 cr.

**3209 Understanding the Evolution-Creationism Controversy**

(A-F only; Prereq: BIOL 1001, 1009, 1951 or 2002, or equivCIV)

67897 001 LEC, 08:15-09:30 TTh, Molecular Cellular Biol 2-122, In Person Term Based; Randy Moore ; 3 cr.  
 67898 002 LEC, 09:45-11:00 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], [CHEM 1062/1066 or 1082/1086], [2005 is recommended])

50588 001 LEC, 14:30-15:45 TTh, Bruininks Hall 312, In Person Term Based; Sarah Malmquist ; 3 cr.  
 69364 090 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Sarah Malmquist ; 3 cr.

**3272 Applied Biostatistics**

(A-F only; Prereq: High school algebra; BIOL 2003 recommended)

50810 001 LEC, 10:15-11:30 MWF, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 5272001 BIOL 3272H; Yaniv Brandvain ; 4 cr.

**3272H Applied Biostatistics**

(A-F only; Prereq: High school algebra; BIOL 2003 recommended.)

50905 001 LEC, 10:15-11:30 MWF, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 3272001 BIOL 5272; Yaniv Brandvain ; 4 cr.

**3302 Dean's Scholar: Leadership Capstone Experience**

(S-N only; Prereq: 1301, 2301, CBS dean's scholar)

50752 001 DIS, 16:40-17:55 M, Ford Hall 127, In Person Term Based; Nikki Letawsky Shultz ; 1 cr.

**3610 Internship: Professional Experience in Biological Sciences**

(S-N or Audit; Prereq: Acceptance into CBS Internship Program, internship workshop, college consent.)

50610 001 FWK, In Person Term Based; Kirsten Petersen ; 1-6 cr.

**3960H Communicating in the Biological Sciences**

(A-F only;)

50789 001 LEC, 12:20-13:10 M, Bruininks Hall 119, In Person Term Based; Neil Olszewski ; 1 cr.  
 50934 002 LEC, 13:25-14:15 W, Bruininks Hall 512B, In Person Term Based; Neil Olszewski ; 1 cr.

**4003 Genetics**

(Student Option; Prereq: Biol 2003/2003H or BioC 3021 or BioC 4331 or grad)

50661 002 LEC, 08:45-10:00 TTh, Biological Sciences Ctr 64, In Person Term Based; Nathan Springer ; 3 cr.  
 50792 001 LEC, 14:30-15:45 MW, Bruininks Hall 330, In Person Term Based; Robert Brooker ; 3 cr.  
 50865 090 LEC, Completely Online; Nathan Springer ; 3 cr.

**4004 Cell Biology**

(Student Option; Prereq: Completion of Biol 4003 is preferred, Biol2003/2003H or Biol4003 or grad)

50660 002 LEC, 11:15-12:30 TTh, Smith Hall 231, In Person Term Based; Duncan Clarke ; 3 cr.  
 50685 003 LEC, 09:05-09:55 MWF, Bruininks Hall 432, In Person Term Based; Deanna Koepf ; 3 cr.  
 50793 001 LEC, Completely Online; Clay Carter ; 3 cr.  
 50866 090 LEC, Completely Online; Jan Norrander ; 3 cr.

**4321W Deconstructing Research: Writing about Biological Research for Non-scientists**

(Student Option; WI)

50850 001 DIS, 16:40-18:20 T, Bruininks Hall 420A, In Person Term Based; Maxwell Kramer ; 2 cr.

**4793W Directed Studies: Writing Intensive**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements. WI)

50742 001 IND, Independent/Directed Study; Tamar Resnick ; 1-7 cr.

**4794W Directed Research: Writing Intensive**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements. WI)

50743 001 IND, Independent/Directed Study; Tamar Resnick ; 1-7 cr.

51007 002 IND, Independent/Directed Study; Tamar Resnick ; 1-7 cr.

**4961H Thesis Writing in the Biological Sciences: Conveying and Contextualizing Results**

(A-F only;)

50786 001 LEC, 12:20-13:10 W, Bruininks Hall 432, In Person Term Based; Leslie Schiff ; 1 cr.

**4993 Directed Studies**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)

50732 001 IND, Independent/Directed Study; Tamar Resnick ; 1-7 cr.

**4994 Directed Research**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)

50733 001 IND, Independent/Directed Study; Tamar Resnick ; 1-7 cr.

**5272 Applied Biostatistics**

(A-F only; Prereq: High school algebra; BIOL 2003 recommended.)

50816 001 LEC, 10:15-11:30 MWF, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 3272H001 BIOL 3272; Yaniv Brandvain ; 4 cr.

**5701 Science Communication: A Primer for Scientists**

(Student Option;)

51024 001 LEC, 09:00-11:00 M, Biological Sciences Ctr 12, In Person Term Based; Caitlin Looby ; 2 cr.

**Biology, Society, and Environment (BSE)**

**2001 An Introduction to Biology, Society, and Environment**

(A-F only;)

54598 001 LEC, 14:30-16:10 W, Anderson Hall 270, In Person Term Based; Ivan Bialostosky ; 2 cr.

**3991 Biology, Society and Environment Capstone**

(S-N only;)

68126 001 IND, Completely Online; Katherine Klink ; 1 cr.

**3991H BSE Capstone Honors**

(A-F only;)

68127 001 IND, Completely Online; Katherine Klink ; 1 cr.

**3994 Directed Research in Biology, Society, and Environment**

(Student Option;)

68987 001 IND, In Person Term Based; Katherine Klink ; 1-8 cr.

**3996 Senior Project Directed Research**

(A-F only; Prereq: instr consent, dept consent, college consent.)

55290 001 IND, In Person Term Based; Bruce Braun ; 3-4 cr.  
 55291 002 IND, In Person Term Based; Kathryn Grace ; 3-4 cr.  
 55292 003 IND, In Person Term Based; Daniel Griffin ; 3-4 cr.  
 55293 004 IND, In Person Term Based; Kurt Kipfmuller ; 3-4 cr.  
 55294 005 IND, In Person Term Based; Katherine Klink ; 3-4 cr.  
 55295 006 IND, In Person Term Based; Arun Saldanha ; 3-4 cr.

55296 007 IND, In Person Term Based; Abdi Samatar ; 3-4 cr.

55297 008 IND, In Person Term Based; 3-4 cr.

55298 009 IND, In Person Term Based; 3-4 cr.

**3997 Senior Project**

(A-F only; Prereq: instr consent, dept consent, college consent.)

55302 001 IND, In Person Term Based; Bruce Braun ; 2 cr.  
 55303 002 IND, In Person Term Based; Kathryn Grace ; 2 cr.  
 55304 003 IND, In Person Term Based; Daniel Griffin ; 2 cr.  
 55305 004 IND, In Person Term Based; Kurt Kipfmuller ; 2 cr.  
 55306 005 IND, In Person Term Based; Katherine Klink ; 2 cr.  
 55307 006 IND, In Person Term Based; Arun Saldanha ; 2 cr.  
 55308 007 IND, In Person Term Based; Abdi Samatar ; 2 cr.  
 55309 008 IND, In Person Term Based; 2 cr.  
 55310 009 IND, In Person Term Based; 2 cr.

**Biomedical Engineering (BMEN)**

**1602 Biomedical Engineering Undergraduate Seminar II**

(A-F only; Prereq: CSE student or instructor approval.)

59700 001 LEC, 14:30-15:20 W, Molecular Cellular Biol 3-120, In Person Term Based; Robert Tranquillo ; 1 cr.

**2101 Biomedical Thermodynamics and Kinetics**

(A-F only; Prerequisites BMEN 2501, CHEM 1022, MATH 2373, concurrent registration is required (or allowed) in MATH 2374)

60642 001 LEC, 13:00-14:15 TTh, Bruininks Hall 220, In Person Term Based; Jonathan Sachs, Brittany Hartwell, Adam McConnell ; 3 cr.  
 60685 002 DIS, 12:20-13:10 M, Bruininks Hall 117, In Person Term Based; Jonathan Sachs, Brittany Hartwell ; 3 cr.  
 60686 003 DIS, 12:20-13:10 W, Bruininks Hall 123, In Person Term Based; Jonathan Sachs, Brittany Hartwell ; 3 cr.  
 60687 004 DIS, 12:20-13:10 F, Bruininks Hall 121, In Person Term Based; Jonathan Sachs, Brittany Hartwell ; 3 cr.  
 60688 005 DIS, 08:00-08:50 T, Bruininks Hall 121, In Person Term Based; Jonathan Sachs, Brittany Hartwell ; 3 cr.  
 60689 006 DIS, 08:00-08:50 Th, Bruininks Hall 121, In Person Term Based; Jonathan Sachs, Brittany Hartwell ; 3 cr.

**2151 Introductory Medical Device Prototyping**

(A-F only;)

61270 001 LEC, 10:10-11:00 MW, Mayo Medical Device Ctr G217-1, In Person Term Based; Steven Salterman ; 3 cr.  
 61271 002 LAB, 10:10-12:05 Th, Mayo Medical Device Ctr G217-1, In Person Term Based; Steven Salterman ; 3 cr.  
 61351 004 LAB, 14:30-16:25 F, Mayo Medical Device Ctr G217-1, In Person Term Based; Steven Salterman ; 3 cr.  
 61382 003 LEC, 13:25-14:15 MW, Mayo Medical Device Ctr G217-1, In Person Term Based; Steven Salterman ; 3 cr.

**3111 Biomedical Transport Processes**

(A-F or Audit; Prereq: [3011, 3015], [BMEN upper div or dept consent])

60904 001 LEC, 10:10-11:00 MWF, Jackson Hall 2-137, In Person Term Based; David Odde, David Wood ; 3 cr.  
 60905 002 DIS, 09:05-09:55 T, Arundson Hall 120, In Person Term Based; David Odde, David Wood ; 3 cr.  
 60906 003 DIS, 09:05-09:55 Th, Arundson Hall 120, In Person Term Based; David Odde, David Wood ; 3 cr.  
 60907 004 DIS, 08:00-08:50 W, Arundson Hall 120, In Person Term Based; David Odde, 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])

60924 001 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-238, In Person Term Based; David Odde, David Wood ; 1 cr.  
 60925 002 LAB, 12:20-14:15 T, Moos Health Sci Tower 3-238, In Person Term Based; David Odde, David Wood ; 1 cr.  
 60926 003 LAB, 10:10-12:05 Th, Moos Health Sci Tower 3-238, In Person Term Based; David Odde, David Wood ; 1 cr.  
 60927 004 LAB, 12:20-14:15 Th, Moos Health Sci Tower 3-238, In Person Term Based; David Odde, David Wood ; 1 cr.

**3311 Biomaterials**

(A-F or Audit; Prereq: 2101, [BMEN Upper Div or dept consent])

60908 001 LEC, 11:15-12:05 MWF, Jackson Hall 2-137, In Person Term Based; Chun Wang ; 3 cr.

60909 002 DIS, 11:15-12:05 T, Amundson Hall 116, In Person Term Based; Chun Wang ; 3 cr.  
60910 003 DIS, 11:15-12:05 Th, Amundson Hall 116, In Person Term Based; Chun Wang ; 3 cr.  
60911 004 DIS, 08:00-08:50 W, Amundson Hall 116, In Person Term Based; Chun Wang ; 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])

60912 001 LAB, 12:20-14:15 T, Moos Health Sci Tower 3-244, In Person Term Based; Chun Wang ; 1 cr.  
60913 002 LAB, 14:30-16:25 T, Moos Health Sci Tower 3-244, In Person Term Based; Chun Wang ; 1 cr.  
60914 003 LAB, 12:20-14:15 Th, Moos Health Sci Tower 3-244, In Person Term Based; Chun Wang ; 1 cr.  
60915 004 LAB, 14:30-16:25 Th, Moos Health Sci Tower 3-244, In Person Term Based; Chun Wang ; 1 cr.

### 3411 Biomedical Systems Analysis

(A-F or Audit; Prereq: 3211, [BME Upper Div or dept consent])

60916 001 LEC, 09:05-09:55 MWF, Jackson Hall 2-137, In Person Term Based; Matthew Johnson ; 3 cr.  
60917 002 DIS, 15:35-16:25 T, Amundson Hall 124, In Person Term Based; Matthew Johnson ; 3 cr.  
60918 003 DIS, 15:35-16:25 Th, Amundson Hall 124, In Person Term Based; Matthew Johnson ; 3 cr.  
60919 004 DIS, 08:00-08:50 Th, Amundson Hall 116, 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])

60920 001 LAB, 08:00-09:55 T, Moos Health Sci Tower 3-349, In Person Term Based; Matthew Johnson ; 1 cr.  
60921 002 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-349, In Person Term Based; Matthew Johnson ; 1 cr.  
60922 003 LAB, 08:00-09:55 Th, Moos Health Sci Tower 3-349, In Person Term Based; Matthew Johnson ; 1 cr.  
60923 004 LAB, 10:10-12:05 Th, Moos Health Sci Tower 3-349, In Person Term Based; Matthew Johnson ; 1 cr.

### 4002W Biomedical Engineering Design II

(A-F or Audit; Prereq: 4001WWI)

59719 002 DIS, In Person Term Based; Shai Ashkenazi ; 3 cr.  
60345 001 LEC, 15:35-16:25 W, Molecular Cellular Biol 3-120, In Person Term Based; Shai Ashkenazi ; 3 cr.

### 4793 Directed Study

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

59702 001 IND, In Person Term Based; Chun Wang ; 1-4 cr.

### 4794 Directed Research

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

59701 001 IND, 00:00-00:00 , In Person Term Based; Chun Wang ; 1-4 cr.

### 4996W Industrial Assignment II: Co-op Program

(A-F only; Prereq: 4896, registered in co-op progWI)

60812 001 FWK, 00:00-00:00 , Independent/Directed Study; Chun Wang ; 4 cr.

### 5041 Tissue Engineering

(Student Option; Prereq: CSE upper div or grad student or med student or instr consent)

61221 001 LEC, 13:00-14:15 TTh, Keller Hall 3-125, In Person Term Based; Wei Shen ; 3 cr.  
61302 883 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Wei Shen ; 3 cr.

### 5101 Advanced Bioelectricity and Instrumentation

(Student Option; Prereq: [CSE upper div, grad student] or instructor consent)

59842 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Alena Talkachova ; 3 cr.

### 5111 Biomedical Ultrasound

(Student Option; Prereq: [[PHYS 1302 or equiv], [MATH 2374 or equiv]] or instr consent)

65953 001 LEC, 13:00-14:15 MW, Amundson Hall 156, 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)

60679 001 LEC, 15:35-17:30 Th, Molecular Cellular Biol 2-120, In Person Term Based; Steven Saliterman ; 2 cr.

### 5311 Advanced Biomedical Transport Processes

(Student Option; )

59527 001 LEC, 09:05-09:55 MWF, Mechanical Engineering 102, In Person Term Based; Meets With: 001 CHEN 5753; Robert Tranquillo ; 3 cr.

61105 883 LEC, 09:05-09:55 MWF, Twin Cities Remote, Completely Online; Robert Tranquillo ; 3 cr.

### 5361 3D Bioprinting

(A-F only; )

66132 001 LEC, 16:50-18:30 M, Moos Health Sci Tower 2-520, In Person Term Based; Angela Panoskaltis-Mortari ; 2 cr.

### 5413 Neural Decoding and Interfacing

(A-F or Audit; Prereq: CSE upper division student, CSE graduate student, or instructor approval. recommended: BMEN 3411)

61274 001 LEC, 09:45-11:00 MW, Bruininks Hal 121, In Person Term Based; Tay Netoff ; 3 cr.

### 5421 Introduction to Biomedical Optics

(A-F or Audit; Prereq: CSE sr or grad student)

61272 001 LEC, 11:15-12:30 TTh, Bruininks Hal 121, In Person Term Based; Taner Akkin ; 3 cr.

### 5601 Cardiovascular Devices

(A-F or Audit; Prereq: BMEN 3011, 3111, 3211, or equivalents with instr consent)

61234 001 LEC, 14:30-15:20 Th, Keller Hall 3-125, In Person Term Based; Jason Bjork ; 1 cr.

## Bioproducts and Biosystems Eng (BBE)

### 1002 Biorenewable Resources

(Student Option; TS)

56959 001 LEC, Completely Online; William Tai Yin Tze, Lucas Stolp ; 3 cr.

### 2201 Renewable Energy and the Environment

(Student Option; TS)

57063 001 LEC, 00:00-00:00 , ONLINE, 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])

60676 001 LEC, 09:30-10:45 MW, Biosystems & Ag Eng Bldg 106, In Person Term Based; Bo Hu, Jiayu Li ; 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])

60749 001 LEC, 08:30-09:20 MWF, Ruttan Hall B35, In Person Term Based; Bruce Wilson ; 3 cr.

### 3093 Directed Studies

(Student Option; Prereq: instr consent)

59453 001 IND, 00:00-00:00 , In Person Term Based; 1-5 cr.

### 3201 Sustainability of Food Systems: A Life Cycle Perspective

(A-F only; GP)

57109 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Natalie Hunt ; 3 cr.

### 3394 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )

56704 001 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.

### 3396 Industry Assignment

(A-F or Audit; )

56703 001 FWK, 00:00-00:00 , In Person Term Based; 1 cr.

### 4013 Transport in Biological Processes II

(A-F or Audit; Prereq: 3012, 3043, [upper div CSE or instr consent])

60333 001 LEC, 12:50-13:40 MWF, Kaufert Laboratory 302, In Person Term Based; Ping Wang ; 3 cr.

60802 002 DIS, 13:55-14:45 M, Kaufert Laboratory 302, In Person Term Based; Ping Wang ; 3 cr.

### 4302 Biodegradation of Bioproducts

(Student Option; Prereq: 1002 or instr consent)

56960 001 LEC, 11:45-13:00 T, Alderman Hall 415, In Person Term Based; Meets With: 001 BBE 5302; Jiwei Zhang ; 3 cr.  
56961 002 LAB, 11:45-13:00 Th, Alderman Hall 415, In Person Term Based; Meets With: 002 BBE 5302; Jiwei Zhang ; 3 cr.

### 4303 Introduction to Bio-based Materials Science

(A-F or Audit; Prereq: 2001 or instr consent)

60677 001 LEC, 16:30-17:45 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5303; Steve Severson ; 3 cr.

### 4305 Pulp and Paper Technology

(Student Option; Prereq: Junior or senior or instr consent)

57090 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 BBE 5305; Shri Ramaswamy ; 3 cr.

### 4403 Bio-based Products Engineering Lab I

(A-F or Audit; Prereq: BBE 4001)

61370 001 LAB, 08:30-11:00 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 5403; Ulrike Tschirner ; 2 cr.

61407 002 LAB, 08:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 5403; Ulrike Tschirner ; 2 cr.

### 4502W BBE Capstone Design

(A-F or Audit; Prereq: BBE 3002 and BBE 3012 and BBE 4013 and or concurrent with BBE 4013 and CSE Upper Division.WI)

60239 001 LEC, 15:00-17:00 MW, Biosystems & Ag Eng Bldg 106, In Person Term Based; David Schmidt, Kevin Janni ; 4 cr.

### 4523 Ecological Engineering Design

(A-F or Audit; Prereq: BBE 3012 and CSE upper division or instr consent)

60402 001 LEC, 11:45-12:35 MWF, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 5523; Chris Lenhart, John Nieber ; 3 cr.

### 4533 Sustainable Waste Management Engineering

(A-F or Audit; Prereq: 3023, upper div CSE)

60334 001 LEC, 13:15-14:05 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Sara Heger ; 3 cr.  
60335 002 LAB, 11:30-13:00 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Sara Heger ; 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)

60336 001 LEC, 11:45-12:35 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5713; Abdennour ABBAS ; 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)

60742 001 LEC, 10:40-11:55 TTh, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 BBE 5723; R. Ruan, Min Addy ; 3 cr.

### 4733 Renewable Energy Technologies

(A-F or Audit; Prereq: Junior or seniorTS)

60412 001 LEC, 15:00-16:15 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 BBE 5733; R. Ruan, Min Addy ; 3 cr.

### 4753 Air Quality and Pollution Control Engineering

(A-F or Audit; Prereqs: BBE 3012, 3043, upper division CSE, graduate student or instructor consent. Credit will not be granted if credit has been received for CEGE 5561)

61300 001 LEC, 10:15-11:30 MW, Ruttan Hall 143, In Person Term Based; Meets With: 001 BBE 5753; Jiayu Li, Kevin Janni ; 3 cr.

### 4900 Intern Reports

(A-F or Audit; Prereq: [CSE or CFANS] student in BBE, instr consent)

59305 001 FWK, 00:00-00:00 , In Person Term Based; 2 cr.

**5093 Directed Study**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)  
57151 001 IND, In Person Term Based; 1-4 cr.

**5094 Directed Research**

(Student Option; Prereq: instr consent)  
59454 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**5302 Biodegradation of Bioproducts**

(Student Option; Prereq: Grad student or instr consent)  
56963 001 LEC, 11:45-13:00 T, Alderman Hall 415, In Person Term Based; Meets With: 001 BBE 4302; Jiwei Zhang ; 3 cr.  
56964 002 LAB, 11:45-13:00 Th, Alderman Hall 415, In Person Term Based; Meets With: 002 BBE 4302; Jiwei Zhang ; 3 cr.

**5303 Introduction to Bio-based Materials Science**

(Student Option; Prereq: Grad student or instr consent)  
60678 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; )  
57091 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 BBE 4305; Shri Ramaswamy ; 3 cr.

**5403 Bio-based Products Engineering Lab I**

(A-F or Audit; Prereq: Grad student or instr consent)  
61371 001 LAB, 08:30-11:00 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 4403; Ulrike Tschirner ; 2 cr.  
61408 002 LAB, 08:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 4403; Ulrike Tschirner ; 2 cr.

**5523 Ecological Engineering Design**

(A-F only; Prereq: Graduate student or instr consent)  
60721 001 LEC, 11:45-12:35 MWF, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 4523; Chris Lenhart, John Nieber ; 3 cr.

**5713 Biological Process Engineering**

(A-F only; Prereq: [3033, [4013 or concurrent registration is required (or allowed) in 4013], or instr consent)  
60757 001 LEC, 11:45-12:35 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4713; Abdennour ABBAS ; 3 cr.

**5723 Food Process Engineering**

(A-F or Audit; Prereq: [[4013 or concurrent registration is required (or allowed) in 4013], or instr consent)  
60755 001 LEC, 10:40-11:55 TTh, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 BBE 4723; Min Addy, R. Ruan ; 3 cr.

**5733 Renewable Energy Technologies**

(A-F or Audit; Prereq: Grad student or instr consent)  
60754 001 LEC, 15:00-16:15 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 BBE 4733; R. Ruan, Min Addy ; 3 cr.

**5753 Air Quality and Pollution Control Engineering**

(A-F or Audit; Prerequisites Graduate student or instructor consent Credit will not be granted if credit has been received for CEGE 5561)  
61301 001 LEC, 10:15-11:30 MW, Ruttan Hall 143, In Person Term Based; Meets With: 001 BBE 4753; Jiayu Li, Kevin Janni ; 3 cr.

**Business Administration (BA)****1001 Introduction to Analyzing Business Problems using Excel**

(A-F only; )  
58119 001 LEC, 08:00-08:50 MW, Carlson School of Mgmt 1-143, In Person Term Based; Eric White ; 1 cr.  
58120 002 LEC, 10:10-11:00 MW, Carlson School of Mgmt 1-143, In Person Term Based; Lisa Kline ; 1 cr.  
58121 003 LEC, 12:20-13:10 MW, Carlson School of Mgmt 1-143, In Person Term Based; Jeff Bailey ; 1 cr.  
58122 004 LEC, 12:20-13:10 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Lisa Kline ; 1 cr.

58123 005 LEC, 13:25-14:15 TTh, Carlson School of Mgmt L-122, In Person Term Based; Jeff Bailey ; 1 cr.

**2021 Career Skills**

(S-N only; Prereq: Carlson School undergraduate student)  
57769 001 LEC, 11:50-13:05 M, Carlson School of Mgmt L-122, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
57770 002 LEC, 13:45-15:00 M, Carlson School of Mgmt L-126, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
58008 003 LEC, 16:00-17:15 M, Carlson School of Mgmt L-122, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
58009 004 LEC, 08:15-09:30 T, Carlson School of Mgmt L-122, In Person Term Based; Rebecca Dordel ; 1 cr.  
58010 005 LEC, 09:55-11:10 T, Carlson School of Mgmt 1-123, In Person Term Based; Lisa Novack ; 1 cr.  
58011 006 LEC, 11:50-13:05 T, Carlson School of Mgmt 1-149, In Person Term Based; Maggie Tomas ; 1 cr.  
58012 007 LEC, 16:00-17:15 T, Carlson School of Mgmt L-122, In Person Term Based; Britney Hayes ; 1 cr.  
58136 008 LEC, 11:50-13:05 W, Carlson School of Mgmt L-122, In Person Term Based; Annie Montemayor ; 1 cr.  
58277 009 LEC, 13:45-15:00 W, Carlson School of Mgmt L-126, In Person Term Based; Annie Montemayor ; 1 cr.  
66009 010 LEC, 16:00-17:15 W, Carlson School of Mgmt L-122, In Person Term Based; Britney Hayes ; 1 cr.  
66010 011 LEC, 09:55-11:10 Th, Carlson School of Mgmt 1-123, In Person Term Based; Mai Xiong ; 1 cr.  
66011 012 LEC, 11:50-13:05 Th, Carlson School of Mgmt L-122, In Person Term Based; Mai Xiong ; 1 cr.

**3001 Race, Power, and Justice in Business**

(A-F only; Prereq: BA 1011 recommended DSJ)  
68690 001 LEC, 13:00-14:15 MW, Carlson School of Mgmt 2-207, In Person Term Based; SooJin Pate ; 3 cr.

**3900 Topics**

(Student Option; )  
68115 001 LEC, 14:00-18:00 T, Carlson School of Mgmt 1-143, In Person Term Based; Vladas Griskevicius ; 1-4 cr.

**3993 Directed Study**

(Student Option; Prereq: Instructor consent)  
57748 001 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.

**3996 Internship Seminar**

(S-N only; Prereq: Approved internship, instructor consent)  
57758 001 IND, 00:00-00:00 , , In Person Term Based; Mai Xiong ; 1 cr.  
66013 002 IND, 00:00-00:00 , , In Person Term Based; Mai Xiong ; 1 cr.

**4501 Carlson Growth Equity Fund**

(A-F only; Prereq: approved application)  
58132 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Meets With: 001 MBA 6501; Susanna Gibbons ; 2-4 cr.

**4502 Carlson Fixed Income Fund**

(A-F only; Prereq: approved application)  
58133 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Meets With: 001 MBA 6502; Susanna Gibbons ; 2-4 cr.

**4503 Carlson Ventures Enterprise**

(Student Option No Audit; Prereq: CSOM junior or senior, approved application)  
58043 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Meets With: 001 MBA 6503; Tobin Nord ; 2-4 cr.

**4504 Carlson Consulting Enterprise**

(A-F only; Prereq: approved application)  
57865 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Meets With: 001 MBA 6504; Siddharth Chandramouli ; 4 cr.

**4505 Brand Enterprise**

(Student Option No Audit; Prereq: approved application)  
57830 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Meets With: 001 MBA 6505; David Hopkins ; 4 cr.

**Business Law (BLAW)****3059 Real Estate Law**

(A-F only; )  
69671 001 LEC, 17:45-21:05 W, Carlson School of Mgmt 2-206, In Person Term Based; Jack Kramer ; 2 cr.

**3061 Business Law Basics**

(A-F only; Prerequisite for this course. The goal is to provide basic concepts that can be used throughout your career to spot legal issues, identify potential concerns, and with the aid of counsel, solve or avoid problems. General topics include: various legal entities in which business can be conducted, tort law (with emphasis on negligence), real estate law, the law of agency, intellectual property (patents, copyrights, trade secrets and trademarks), warranty law, product liability, employment law, certain discrimination laws (including Minnesota's fairly recent protections for women in the workplace), alternative dispute resolution and administrative law. Throughout the course, we will examine the impact of the Supreme Court on American business. NOTE: Students who previously took BLAW 3058 (4 credit course) should NOT take this course.)

65998 001 LEC, 10:10-11:50 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 2 cr.  
69494 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-114, In Person Term Based; Jack Kramer ; 2 cr.

**3062 Contract Law and Corporate Regulation**

(A-F only; Prerequisite for this course. General topics include: (1) the law of contracts and transactions involving the sale of goods, (2) secured transactions (how creditors can use a debtor's assets as collateral to secure indebtedness), and (3) the basics of bankruptcy law. Public company subjects include: pros and cons of going public, the IPO process, federal securities laws and SEC regulations regarding public company reporting requirements, insider trading, the Sarbanes-Oxley Act of 2002 and its impact on corporate governance, trends in shareholder democracy rights and shareholder activism, and the role of boards and audit committees. Throughout the course, we will examine the impact of the Supreme Court on American business. NOTE: Students who previously took BLAW 3058 (4 credit course) should NOT take this course.)

65999 001 LEC, 08:00-09:40 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 2 cr.  
66000 002 LEC, 10:10-11:50 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 2 cr.  
66001 003 LEC, 08:00-09:40 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 2 cr.

**CAPA Barcelona Study Abr Prgm (BCLA)****Carlson Executive MBA (CMBA)****5832 Advanced Management Topic Elective: Business Analytics for Competitive Advantage**

(A-F only; )  
66016 001 LEC, In Person Term Based; Ravi Bapna ; 1.5 cr.

**Cellular/Organismal Physiology (COP)****4793W Writing Intensive Directed Studies**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793, 4794, 4993W, 4994W counts towards CBS major requirements. WI)  
51020 001 IND, Independent/Directed Study; Sarah Malmquist ; 1-7 cr.

**4794W Writing Intensive Directed Research**

(S-N only; WI)  
51009 001 IND, Independent/Directed Study; Sarah Malmquist ; 1-7 cr.  
51010 002 IND, Independent/Directed Study; Sarah Malmquist ; 1-7 cr.

**4993 Directed Studies**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793, 4794, 4993W, 4994W counts towards CBS major requirements.)  
51021 001 IND, In Person Term Based; Sarah Malmquist ; 1-7 cr.

**4994 Directed Research**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793, 4794, 4993W, 4994W counts towards CBS major requirements. )

51022 001 IND, In Person Term Based; Sarah Malmquist ; 1-7 cr.

## Chemical Engineering (CHEN)

### 1901 Chemical Engineering & Society

(S-N only ; )  
67913 001 DIS, 15:35-16:25 W, Amundson Hall 104, In Person Term Based; Samira Azarin, Kevin Dorfman ; 1 cr.

### 2594 Directed Research Lower Division

(Student Option No Audit; Prereq: instr consent, DUGS consent)  
61839 001 IND, In Person Term Based; Kevin Dorfman ; 1-4 cr.

### 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)  
60247 001 LEC, 11:15-12:05 MWF, Amundson Hall B75, In Person Term Based; Joseph Zasadzinski ; 4 cr.  
60248 002 DIS, 09:05-09:55 TTh, Amundson Hall 158, In Person Term Based; Joseph Zasadzinski ; 4 cr.  
60249 003 DIS, 12:20-13:10 TTh, Amundson Hall 116, In Person Term Based; Joseph Zasadzinski ; 4 cr.  
60250 004 DIS, 14:30-15:20 TTh, Akerman Hall 313, In Person Term Based; Joseph Zasadzinski ; 4 cr.  
60805 005 DIS, 15:35-16:25 TTh, Amundson Hall 120, In Person Term Based; Joseph Zasadzinski ; 4 cr.

### 3101 Chemical Engineering

#### Thermodynamics

(A-F only; Prereq: ChEn 2001, Math 2374 or equivalent, CHEM 4501 (or 8), & Math 2373 or equivalent)  
65725 001 LEC, 08:00-08:50 MWF, Amundson Hall B75, In Person Term Based; Paul Dauenhauer ; 4 cr.  
65726 002 DIS, 09:05-09:55 TTh, Amundson Hall 116, In Person Term Based; Paul Dauenhauer ; 4 cr.  
65727 003 DIS, 10:10-11:00 TTh, Amundson Hall 116, In Person Term Based; Paul Dauenhauer ; 4 cr.  
65728 004 DIS, 11:15-12:05 TTh, Amundson Hall 120, In Person Term Based; Paul Dauenhauer ; 4 cr.  
65729 005 DIS, 14:30-15:20 TTh, Akerman Hall 215, In Person Term Based; Paul Dauenhauer ; 4 cr.  
65730 006 DIS, 15:35-16:25 TTh, Amundson Hall 116, In Person Term Based; Paul Dauenhauer ; 4 cr.

### 3401W Junior Chemical Engineering Lab

(A-F only; Prereq: ChEn 3005; upper div ChEn majorWl)  
60729 001 LEC, 09:05-09:55 MWF, Amundson Hall B75, In Person Term Based; Kevin Dorfman ; 2 cr.  
60730 002 LAB, 13:25-17:25 MF, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.  
60731 004 LAB, 13:25-17:25 TTh, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.  
60732 005 LAB, 13:25-17:25 WM, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.  
60733 006 LAB, 08:00-12:00 ThT, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.  
60734 007 LAB, 13:25-17:25 ThT, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.  
60736 003 LAB, 08:00-12:00 TTh, Lab TBA, In Person Term Based; Kevin Dorfman ; 2 cr.

### 3701 Introduction to Biomolecular Engineering

(A-F or Audit; Prereq: Chem 2302, ChEn 3201, Math 2373 (or equivalent))  
65733 001 LEC, 10:10-11:00 MWF, Amundson Hall B75, In Person Term Based; Benjamin Hackel ; 3 cr.  
65734 002 DIS, 08:00-08:50 T, Amundson Hall 116, In Person Term Based; Benjamin Hackel ; 3 cr.  
65735 003 DIS, 09:05-09:55 T, Amundson Hall 124, In Person Term Based; Benjamin Hackel ; 3 cr.  
65736 004 DIS, 10:10-11:00 T, Amundson Hall 120, In Person Term Based; Benjamin Hackel ; 3 cr.  
65737 005 DIS, 12:20-13:10 T, Amundson Hall 120, In Person Term Based; Benjamin Hackel ; 3 cr.  
65738 006 DIS, 14:30-15:20 T, Amundson Hall 124, In Person Term Based; Benjamin Hackel ; 3 cr.

### 4214 Polymers

(A-F or Audit; Prereq: [[MATS 3011, [3101 or MATS 3001], [upper div Mats or ChEn]]] or instr consent)  
60654 001 LEC, 11:15-12:05 MWF, Smith Hall 100, In Person Term Based; Meets With: 001 CHEM 4214001 MATS 4214; Frank Bates ; 3 cr.

### 4223W Polymer Laboratory

#### (Student Option; WI)

60693 001 LEC, 08:00-08:50 M, Smith Hall 331, In Person Term Based; Meets With: 001 MATS 4223W001 CHEM 4223W; Marc Hillmyer ; 2 cr.  
60694 002 LAB, 08:00-11:50 T, Smith Hall 249A, In Person Term Based; Meets With: 002 MATS 4223W002 CHEM 4223W; Marc Hillmyer ; 2 cr.  
60695 003 LAB, In Person Term Based; Meets With: 003 MATS 4223W003 CHEM 4223W; 2 cr.  
68772 004 LAB, 08:00-11:50 Th, Smith Hall 249A, In Person Term Based; Marc Hillmyer ; 2 cr.

### 4501W Chemical Engineering Design

(A-F only; Prereq: CHEN 3401W, ChEn 3102, ChEn 3006 (or &3006)WI)  
61550 001 LEC, 13:25-14:15 MWF, Amundson Hall B75, In Person Term Based; Qi Zhang ; 4 cr.  
61551 002 DIS, 08:00-08:50 TTh, Amundson Hall 158, In Person Term Based; Qi Zhang ; 4 cr.  
61552 003 DIS, 09:05-09:55 TTh, Ford Hall 127, In Person Term Based; Qi Zhang ; 4 cr.  
61553 005 DIS, 10:10-11:00 TTh, Mechanical Engineering 25, In Person Term Based; Qi Zhang ; 4 cr.  
61554 006 DIS, 14:30-15:20 TTh, Rapson Hall 58, In Person Term Based; Qi Zhang ; 4 cr.  
61555 008 DIS, 15:35-16:25 TTh, Amundson Hall 158, In Person Term Based; Qi Zhang ; 4 cr.

### 4593 Directed study

(Student Option No Audit; Prereq: ChEn major upper division, instr consent)  
59691 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Dorfman ; 1-4 cr.

### 4594 Directed Research

(Student Option No Audit; Prereq: Upper div ChEn)  
59692 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Dorfman ; 1-4 cr.

### 4708 Advanced Undergraduate Chemical Rate Processes: Analysis of Chemical Reactors

(A-F only; Prereq: [3102 or 4102], ChEn major upper div)  
67835 001 LEC, 11:15-12:05 MWF, Akerman Hall 209, In Person Term Based; Meets With: 001 CHEN 8501; Aditya Bhan ; 3 cr.

### 5753 Advanced Biomedical Transport Processes

(A-F or Audit; Prereq: 3005 or 4005 or equiv)  
59794 001 LEC, 09:05-09:55 MWF, Mechanical Engineering 102, In Person Term Based; Meets With: 001 BMEN 5311; Robert Tranquillo ; 3 cr.  
69661 883 LEC, 09:05-09:55 MWF, Twin Cities Remote, Completely Online; Robert Tranquillo ; 3 cr.

## Chemistry (CHEM)

### 1015 Introductory Chemistry: Lecture

(Student Option; Prereq: [High school chemistry or equiv], two yrs high school math, not passed chem placement exam, high school physics recommended; Students who will go on to take CHEM 1061/1065 should take CHEM 1015 only. Students who will NOT be continuing on to CHEM 1061/1065 and need to fulfill the Physical Science/Lab core requirement need take the 1-credit lab course CHEM 1017 either concurrently or consecutively. This course will NOT fulfill the Physical Science/Lab core requirement unless the CHEM 1017 lab course is completed either concurrently or consecutively. PHYS)  
60337 001 LEC, Completely 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)  
60338 001 LAB, 14:30-17:20 T, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
60339 002 LAB, 14:30-17:20 W, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
60340 003 LAB, 08:00-10:50 Th, 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)  
60884 001 LEC, 08:00-08:50 MWF, Smith Hall 100, In Person Term Based; Andreas Stein ; 3 cr.  
60885 002 LEC, 12:20-13:10 MWF, Smith Hall 100, In Person Term Based; Debra Salmon ; 3 cr.  
60886 003 LEC, 14:30-15:20 MWF, Smith Hall 100, In Person Term Based; Kenneth Leopold ; 3 cr.  
61103 004 LEC, 09:45-11:00 TTh, Smith Hall 100, 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)  
60857 001 LEC, 13:00-14:15 TTh, Smith Hall 100, In Person Term Based; Nathan Burrows ; 3 cr.  
60858 002 LEC, 09:45-11:00 T, Bruininks Hall 114, Partially Online; Michelle Driessen ; 3 cr.  
60947 003 LEC, 09:45-11:00 Th, Bruininks Hall 114, Partially Online; Michelle Driessen ; 3 cr.  
60989 004 LEC, Completely Online; Michelle Driessen ; 3 cr.

### 1065 Chemical Principles I Laboratory

(A-F only; Prereq: concurrent registration is required (or allowed) in 1061PHYS)  
60860 002 LAB, 11:15-14:05 M, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60861 003 LAB, 14:30-17:20 M, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60862 004 LAB, 08:00-10:50 T, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60863 005 LAB, 11:15-14:05 Th, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60864 006 LAB, 14:30-17:20 T, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60865 007 LAB, 08:00-10:50 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60866 008 LAB, 11:15-14:05 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60867 009 LAB, 14:30-17:20 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
60869 011 LAB, 11:15-14:05 Th, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
61378 012 LAB, 14:30-17:20 Th, 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)  
60871 002 LAB, 11:15-14:05 M, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60872 003 LAB, 14:30-17:20 M, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60873 004 LAB, 08:00-10:50 T, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60874 005 LAB, 11:15-14:05 T, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60875 006 LAB, 14:30-17:20 T, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60876 007 LAB, 08:00-10:50 W, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60877 008 LAB, 11:15-14:05 W, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60878 009 LAB, 14:30-17:20 W, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60879 011 LAB, 11:15-14:05 Th, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
60880 012 LAB, 14:30-17:20 Th, Smith Hall 210, In Person Term Based; Michelle Driessen ; 1 cr.  
61385 013 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 1072HPHYS)  
60881 001 LEC, 09:05-09:55 MWF, Smith Hall 331, In Person Term Based; Renee Frontiera ; 3 cr.

### 1076H Honors Chemistry II Laboratory

(A-F only; Prereq: concurrent registration is required (or allowed) in 1072HPHYS)  
60882 001 LAB, 13:25-16:10 M, Smith Hall 249A, In Person Term Based; Michelle Driessen ; 1 cr.  
60883 002 LAB, 13:25-16:10 T, Smith Hall 249A, In Person Term Based; Michelle Driessen ; 1 cr.

**1082 Chemistry for the Life Sciences II**

(Student Option; Prereq: grade of a C- or better in CHEM 1081 (lecture) and CHEM 1065 (lab); concurrent registration is required (or allowed) in 1086; registration for 1086 must precede registration for 1082. This course is recommended for CBS majors.)  
61195 001 LEC, 11:15-12:30 TTh, Smith Hall 100, In Person Term Based; Angela Perkins ; 3 cr.

**1086 Chemistry for the Life Sciences II**

**Laboratory**  
(Student Option; Prereq: grade of a C- or better in CHEM 1081 (lecture) and CHEM 1065 (lab). Concurrent registration in CHEM 1082 is required. This course is recommended for CBS majors.)

61198 003 LAB, 08:00-11:00 T, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61199 004 LAB, 13:00-16:00 T, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61257 006 LAB, 10:10-13:10 W, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61258 007 LAB, 13:25-16:25 W, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61259 008 LAB, 08:00-11:00 Th, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61260 009 LAB, 13:00-16:00 Th, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.  
61546 010 LAB, 17:00-20:00 Th, Kolthoff Hall 583, In Person Term Based; Angela Perkins ; 1 cr.

**1911W Quantum Mechanics and Popular Philosophy**

(Student Option; WI)

66901 001 LEC, 14:30-16:10 M, Smith Hall 111, In Person Term Based; Doreen Leopold ; 2 cr.

**2094 Directed Research**

(Student Option; Prereq: instr consent)

61736 001 IND, In Person Term Based; Stephanie Stathopoulos ; 1-3 cr.

**2301 Organic Chemistry I**

(Student Option; Prereq: C- or better in 1062/1066 or 1072H/1076H)

59219 001 LEC, 10:10-11:00 MWF, Bruininks Hall 230, In Person Term Based; William Pomerantz ; 3 cr.  
59220 002 LEC, 13:25-14:15 MWF, Bruininks Hall 230, In Person Term Based; Debra Salmon ; 3 cr.  
60408 003 LEC, 18:00-21:00 W, Bruininks Hall 230, In Person Term Based; Ian Tonks ; 3 cr.

**2302 Organic Chemistry II**

(Student Option; Prereq: Grade of at least C- in 2301)

59221 001 LEC, 09:05-09:55 MWF, Smith Hall 100, In Person Term Based; Courtney Roberts, Jessica Lamb ; 3 cr.  
59222 002 LEC, 10:10-11:00 MWF, Smith Hall 100, In Person Term Based; Jessica Lamb, Courtney Roberts ; 3 cr.  
60967 003 LEC, 18:00-21:00 W, Smith Hall 100, In Person Term Based; Thomas Hoye ; 3 cr.

**2311 Organic Lab**

(Student Option; Prereq: Grade of at least C- in [2302] or [concurrent registration is required (or allowed) in 2302])

59224 001 LEC, 11:15-12:05 T, Bruininks Hall 230, In Person Term Based; Jane Wissinger ; 4 cr.  
59225 002 LEC, 12:20-13:10 T, Bruininks Hall 230, In Person Term Based; Jane Wissinger ; 4 cr.  
59226 003 LEC, 16:55-17:45 T, Bruininks Hall 230, In Person Term Based; Jane Wissinger ; 4 cr.  
59227 005 LAB, 08:00-11:50 TTh, Smith Hall 349, In Person Term Based; 4 cr.  
59228 007 LAB, 12:20-16:10 TTh, Smith Hall 349, In Person Term Based; 4 cr.  
60409 008 LAB, 18:00-21:50 TTh, Smith Hall 349, In Person Term Based; 4 cr.  
60761 006 LAB, 12:20-16:10 MW, Smith Hall 349, In Person Term Based; 4 cr.

**3121 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)

59230 001 LEC, 12:20-13:10 MWF, Bruininks Hall 230, In Person Term Based; Kyle Bantz ; 3 cr.  
59231 002 LAB, 08:00-11:50 T, Smith Hall 310, In Person Term Based; 3 cr.  
59232 003 LAB, 08:00-11:50 T, Smith Hall 310, In Person Term Based; 3 cr.  
59233 005 LAB, 13:25-17:15 T, Smith Hall 310, In Person Term Based; 3 cr.

59847 007 LAB, 08:00-11:50 Th, Smith Hall 310, In Person Term Based; 3 cr.  
60696 004 LAB, 13:25-17:15 T, Smith Hall 310, In Person Term Based; 3 cr.  
60697 006 LAB, 08:00-11:50 Th, Smith Hall 310, In Person Term Based; 3 cr.  
68718 008 LAB, 13:25-17:15 Th, Smith Hall 310, In Person Term Based; 3 cr.  
68719 009 LAB, 13:25-17:15 Th, Smith Hall 310, In Person Term Based; 3 cr.

**4021 Computational Chemistry**

(Student Option; Prereq: [4502 or equiv], instr consent)

59309 001 LEC, 09:05-09:55 MWF, Smith Hall 231, In Person Term Based; Meets With: 001 CHEM 8021; Jiali Gao ; 3 cr.

**4094W Directed Research**

(Student Option; Prereq: Any 3xxx or 4xxx chem course, instr consentWI)

59462 001 IND, 00:00-00:00 , In Person Term Based; 1-5 cr.

**4101 Modern Instrumental Methods of Chemical Analysis**

(A-F or Audit; Prereq: 2101, 2111)

61255 001 LEC, 09:05-09:55 MWF, Ford Hall 150, In Person Term Based; Michael Bowser ; 3 cr.

**4111W Modern Instrumental Methods of Chemical Analysis Lab**

(A-F or Audit; Prereq: 4101 or concurrent registration is required (or allowed) WI)

59234 001 LEC, 11:15-12:05 T, Bruininks Hall 530A, In Person Term Based; Kyle Bantz ; 2 cr.  
61396 002 LAB, 12:20-16:10 T, Smith Hall 310, In Person Term Based; 2 cr.  
61544 004 LAB, 12:20-16:10 Th, Smith Hall 310, In Person Term Based; 2 cr.

**4223W Polymer Laboratory**

(Student Option; Prereq: CHEM 4221 coreq CHEM 4214 or CHEN 4214 or MATS 4214 or instr consentWI)

59310 002 LAB, 08:00-11:50 T, Smith Hall 249A, In Person Term Based; Meets With: 002 CHEN 4223W002 MATS 4223W; Marc Hillmyer ; 2 cr.  
59542 001 LEC, 08:00-08:50 M, Smith Hall 331, In Person Term Based; Meets With: 001 CHEN 4223W001 MATS 4223W; Marc Hillmyer ; 2 cr.  
67633 004 LAB, 08:00-11:50 Th, Smith Hall 249A, In Person Term Based; Marc Hillmyer ; 2 cr.

**4311W Advanced Organic Chemistry Lab**

(Student Option; Prereq: 2311WI)

59236 001 LEC, 13:25-14:15 F, Kolthoff Hall 139, In Person Term Based; Angela Perkins ; 4 cr.  
59821 002 LAB, 12:20-17:20 MW, Kolthoff Hall 594, In Person Term Based; 4 cr.  
60548 003 LAB, 12:20-17:20 TTh, Kolthoff Hall 594, In Person Term Based; 4 cr.

**4322 Advanced Organic Chemistry**

(Student Option; Prereq: [2302 or equiv], 4501, instr consent)

59313 001 LEC, 11:15-12:05 MWF, Smith Hall 331, In Person Term Based; Meets With: 001 CHEM 8322; Christopher Douglas ; 3 cr.

**4352 Physical Organic Chemistry**

(Student Option; Prereq: 4501, [4011 or 8011])

59315 001 LEC, 10:10-11:00 MWF, Smith Hall 331, 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)

61486 001 LEC, 11:15-12:45 MW, Kolthoff Hall 139, In Person Term Based; Meets With: 001 CHEM 8412; Mark Distefano ; 3 cr.

**4423W Foundations of Chemical Biology Laboratory**

(Student Option; Prereq: [2302 or 2304], 2311, 2111WI)

61093 001 LEC, 16:00-17:15 W, Smith Hall 100, In Person Term Based; Erin Carlson ; 2 cr.  
61095 003 LAB, 12:20-16:10 T, Kolthoff Hall 494, In Person Term Based; 2 cr.  
61096 004 LAB, 08:00-11:50 Th, Kolthoff Hall 494, In Person Term Based; 2 cr.  
61466 005 LAB, 12:20-16:10 Th, Kolthoff Hall 494, In Person Term Based; 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])  
60407 001 LEC, 11:15-12:05 MWF, Bruininks Hall 230, In Person Term Based; Sapna Sarupria ; 3 cr.

**4502 Introduction to Quantum Mechanics and Spectroscopy**

(A-F or Audit; Prereq: [1062/1066 or 1072H/1076H or 1082/1086], [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])

59523 001 LEC, 10:10-11:00 MWF, Bruininks Hall 220, In Person Term Based; Doreen Leopold ; 3 cr.

**4601 Green Chemistry**

(Student Option; Prereq: [2302 or 2081 or equiv]ENV)

60790 001 LEC, 14:30-15:45 MW, Bruininks Hall 432, In Person Term Based; Theresa Reineke ; 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])

60719 001 LEC, 12:20-13:10 MWF, Smith Hall 331, In Person Term Based; Valerie Pierre ; 3 cr.

**4711W Advanced Inorganic Chemistry Lab**

(A-F or Audit; Prereq: 4701, chem majorWI)

59237 001 LEC, 11:15-12:05 TTh, Smith Hall 331, In Person Term Based; Ambika Bhagi-Damodaran ; 3 cr.  
59522 002 LAB, 12:20-16:10 TTh, Kolthoff Hall 491, In Person Term Based; 3 cr.  
61036 003 LAB, 12:20-16:10 MW, Kolthoff Hall 491, In Person Term Based; 3 cr.

**4735 Bioinorganic Chemistry**

(Student Option; Prereq: 4701 or equiv, chem grad or instr consent)

61648 001 LEC, 11:15-12:30 TTh, Smith Hall 111, In Person Term Based; Meets With: 001 CHEM 8735; Larry Que ; 3 cr.

**4894 Directed Thesis**

(A-F only; Prereq: instr consent)

61201 001 IND, In Person Term Based; Stephanie Stathopoulos ; 1-3 cr.

**5210 Materials Characterization**

(Student Option; Prereq: grad student or instr consent)

59524 001 LEC, 13:25-15:20 MW, Bruininks Hall 530A, In Person Term Based; Aaron Massari ; 4 cr.

**5755 X-Ray Crystallography**

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

59525 001 LEC, 12:20-13:10 MWF, Smith Hall 111, In Person Term Based; Victor Young ; 4 cr.

**Chicano Studies (CHIC)****1102 Latinos in the United States: Culture and Citizenship**

(Student Option; DSJ,HIS)

54667 001 LEC, 13:00-14:15 TTh, Anderson Hall 350, In Person Term Based; Meets With: 001 CHIC 1102H; Guillermo Narv?ez ; 3 cr.

**1102H Honors: Latinos in the United States: Culture and Citizenship**

(A-F only; DSJ,HIS)

54668 001 LEC, 13:00-14:15 TTh, Anderson Hall 350, In Person Term Based; Meets With: 001 CHIC 1102; Guillermo Narv?ez ; 3 cr.

**1112 Paradigms in Chicana/o Studies**

(Student Option; DSJ)

52527 001 LEC, 09:45-11:00 MW, Bruininks Hall 144, In Person Term Based; Jimmy Patino ; 3 cr.

**3212 Chicana Feminism: La Chicana in Contemporary Society**

(Student Option; AH,DSJ)

55879 001 LEC, Completely Online; 3 cr.

### 3223 Chicana/o and Latina/o Representation in Film

(Student Option; AH,DSJ)  
66857 001 LEC, Completely Online; Alexandra Covarrubias ; 3 cr.

### 3374 Migrant Farmworkers in the United States: Families, Work, and Advocacy

(Student Option; CIV)  
54888 001 DIS, 11:15-12:30 TTh, Peik Hall 215, In Person Term Based; Meets With: 001 CHIC 5374; Olga Hernandez Villar ; 4 cr.

### 3446 Chicana and Chicano History II: WWII, El Movimiento, and the New Millennium

(Student Option; DSJ,HIS)  
53871 001 LEC, 09:45-11:00 TTh, Appleby Hall 219, In Person Term Based; Jimmy Patino ; 3 cr.

### 3507W Introduction to Chicana/o Literature

(Student Option; DSJ,WI,LITR)  
53952 001 LEC, 00:00-12:00 , ONLINE, Completely Online; Meets With: 001 ENGL 3507W; Vanessa Ramos ; 3 cr.  
54230 002 LEC, 11:15-12:30 MW, Nicholson Hall 335, In Person Term Based; Meets With: 002 ENGL 3507W; Roy Guzman ; 3 cr.

### 3672 Chicana/o Experience in the Midwest

(Student Option; DSJ)  
68484 001 LEC, 13:00-15:50 W, Blegen Hall 110, In Person Term Based; Vanessa Ramos ; 3 cr.

### 3771 Latino Social Power and Social Movements in the U.S.

(Student Option; )  
68485 001 LEC, 13:00-14:15 TTh, Appleby Hall 103, In Person Term Based; Jimmy Patino ; 3 cr.

### 3852 Chicana/o Politics

(Student Option; DSJ,SOCS)  
68486 001 LEC, 14:30-15:45 MW, Ford Hall B10, In Person Term Based; Meets With: 002 PA 5190001 POL 3752; Guillermo Narvez ; 3 cr.

### 3896 Internship for Academic Credit

(Student Option; )  
56544 001 IND, In Person Term Based; Karen Mary Davalos ; 1-4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent)  
54857 001 IND, In Person Term Based; 1-9 cr.  
54887 002 IND, 00:00-00:00 , , In Person Term Based; 1-9 cr.

### 4901W Senior Paper

(A-F only; WI)  
56654 001 IND, In Person Term Based; Jimmy Patino ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent)  
52528 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.  
53967 002 IND, 00:00-00:00 , , In Person Term Based; Jimmy Patino ; 1-3 cr.

## Child Psychology (CPSY)

### 2301 Introduction to Child Psychology

(Student Option; SOCS)  
51065 001 LEC, 09:45-11:00 MW, Nicholson Hall 275, In Person Term Based; Meets With: 001 CPSY 3301; Henriette Warren ; 4 cr.  
51066 002 DIS, 09:45-10:35 F, Peik Hall 225, In Person Term Based; Henriette Warren ; 4 cr.  
52227 005 LEC, Completely Online; Meets With: 003 CPSY 3301; Lauren Eales, Emmy Reilly ; 4 cr.  
52249 008 LEC, 09:05-11:00 TTh, Peik Hall 215, In Person Term Based; Erika DeAngelis ; 4 cr.  
52350 006 LEC, 14:30-16:25 TTh, Appleby Hall 219, In Person Term Based; Sarah Gillespie, Trevor Day ; 4 cr.  
65859 007 LEC, 14:30-16:25 MW, Peik Hall 335, In Person Term Based; Destany Calma-Birling, Romulus Castelo ; 4 cr.

### 3301 Introduction to Child Psychology

(Student Option; SOCS)  
51915 001 LEC, 09:45-11:00 MW, Nicholson Hall 275, In Person Term Based; Meets With: 001 CPSY 2301; Henriette Warren ; 4 cr.

51916 002 DIS, 10:50-11:40 F, Peik Hall 215, In Person Term Based; Henriette Warren ; 4 cr.  
51941 003 LEC, Completely Online; Meets With: 005 CPSY 2301; Lauren Eales, Emmy Reilly ; 4 cr.  
69601 004 DIS, 09:45-10:35 F, Peik Hall 215, In Person Term Based; Henriette Warren ; 4 cr.

### 3308W Introduction to Research Methods in Child Psychology

(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv WI)  
51070 001 LEC, 09:15-10:55 MW, Peik Hall 155, In Person Term Based; Chryle Elieff ; 4 cr.  
52348 002 LEC, 14:00-15:40 TTh, 10 Church Street SE 100, In Person Term Based; Canan Karatekin ; 4 cr.

### 3360H Child Psychology Honors Seminar

(A-F or Audit; Prereq: CPsy honors student)  
65865 001 LEC, 16:15-17:55 W, Folwell Hall 5, In Person Term Based; Philip Zelazo ; 2 cr.

### 3601 Introduction to Child Life Theory and Practice

(A-F or Audit; Prereq: any introductory course in the areas of Child Development, Psychology, Human Development, Family Systems (CPSY 2/3301 strongly recommended))  
67706 001 DIS, Completely Online; Abigail Horton ; 3 cr.

### 3896 Internship in Child Psychology

(S-N only; )  
52349 001 FWK, Completely Online; Meghan Eliason ; 1-4 cr.

### 4302 Infant Development

(A-F or Audit; Prereq: CPSY 2301 or equivalent or instructor consent)  
65861 001 LEC, 14:30-15:45 MW, Nicholson Hall 35, In Person Term Based; Sarah Lukowski ; 3 cr.

### 4303 Adolescent Psychology

(A-F or Audit; Prereq: PSY 1001 or equivalent)  
52293 001 DIS, Completely Online; Amanda Hodel ; 3 cr.

### 4310 Special Topics in Developmental Psychology

(Student Option; )  
67774 001 LEC, 14:30-15:45 TTh, Peik Hall 335, In Person Term Based; Charisse Pickron ; 1-4 cr.

### 4313W Disabilities and Development

(Student Option; Prereq: Psy 1001WI)  
51068 001 LEC, 09:15-10:55 TTh, Peik Hall 28, In Person Term Based; Brian Abery, Renata Ticha ; 4 cr.

### 4314 Trauma-Informed Care Practices in Early Childhood

(Student Option; )  
65862 001 LEC, 09:00-11:30 T, Blegen Hall 240, In Person Term Based; Marie Lister ; 3 cr.

### 4315 Practicum in Early Childhood Trauma-Informed Care

(S-N only; )  
65863 001 FWK, 11:30-12:00 T, Blegen Hall 240, In Person Term Based; Marie Lister ; 2 cr.

### 4329 Biological Foundations of Development

(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
51718 001 LEC, 12:45-14:00 MW, Rapson Hall 56, In Person Term Based; Jed Elison ; 3 cr.

### 4331 Social and Personality Development

(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
51025 001 LEC, 13:00-14:15 MW, Nicholson Hall 35, In Person Term Based; Henriette Warren ; 3 cr.

### 4343 Cognitive Development

(A-F or Audit; Prereq: CPSY 2301 or 3301 or equivalent)  
51071 001 LEC, 16:00-17:15 TTh, Nicholson Hall 35, In Person Term Based; Philip Zelazo ; 3 cr.

### 4345 Language Development and Communication

(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
51069 001 LEC, 11:15-12:30 TTh, Blegen Hall 110, In Person Term Based; Anne Larson ; 3 cr.

### 4347W Child Psychology Capstone

(A-F or Audit; Prereq: Senior and completion of CPSY 3308W (or approved equiv)WI)  
51289 001 LEC, 11:15-12:30 MW, Elliott Hall N119, In Person Term Based; Chryle Elieff ; 3 cr.

65864 002 LEC, 09:45-11:00 MW, Peik Hall 215, In Person Term Based; Arthur Reynolds ; 3 cr.

### 4994 Directed Research in Developmental Psychology

(Student Option; )  
52388 001 LAB, In Person Term Based; Daniel Berry ; 1-4 cr.  
52389 002 LAB, In Person Term Based; Elizabeth Carlson ; 1-4 cr.  
52390 003 LAB, In Person Term Based; Stephanie Carlson ; 1-4 cr.  
52391 004 LAB, In Person Term Based; Dante Cicchetti ; 1-4 cr.  
52392 005 LAB, In Person Term Based; Jed Elison ; 1-4 cr.  
52393 006 LAB, In Person Term Based; Gail Ferguson ; 1-4 cr.  
52394 007 LAB, In Person Term Based; Michael Georgieff ; 1-4 cr.  
52395 008 LAB, In Person Term Based; Damien Fair ; 1-4 cr.  
52396 009 LAB, In Person Term Based; Megan Gunnar ; 1-4 cr.  
52397 010 LAB, In Person Term Based; Canan Karatekin ; 1-4 cr.  
52398 011 LAB, In Person Term Based; Melissa Koenig ; 1-4 cr.  
52399 012 LAB, In Person Term Based; Ann Masten ; 1-4 cr.  
52400 013 LAB, In Person Term Based; Michele Mazzocco ; 1-4 cr.  
52401 014 LAB, In Person Term Based; Arthur Reynolds ; 1-4 cr.  
52402 015 LAB, In Person Term Based; Glenn Roisman ; 1-4 cr.  
52403 016 LAB, In Person Term Based; Maria Sera ; 1-4 cr.  
52404 017 LAB, In Person Term Based; Kathleen Thomas ; 1-4 cr.  
52405 018 LAB, In Person Term Based; Syla Wilson ; 1-4 cr.  
52406 019 LAB, In Person Term Based; Philip Zelazo ; 1-4 cr.  
52407 020 LAB, In Person Term Based; Maria Kroupina ; 1-4 cr.  
52408 021 LAB, In Person Term Based; Rebecca Shlafer ; 1-4 cr.  
52409 022 LAB, In Person Term Based; Charisse Pickron ; 1-4 cr.  
52453 023 LAB, In Person Term Based; Andrew Barnes ; 1-4 cr.  
67792 024 LAB, In Person Term Based; Anne Larson ; 1-4 cr.  
69596 025 LAB, In Person Term Based; Alyssa Meuwissen ; 1-4 cr.

### 4994V Directed Research in Child Psychology (Honors Thesis)

(Student Option; Prereq: 4 cr in CPsy, CPsy honors, instr consent, dept consentWI)  
51259 001 IND, 00:00-00:00 , , In Person Term Based; Charisse Pickron ; 1-6 cr.  
51309 002 IND, 00:00-00:00 , , In Person Term Based; Andrew Barnes ; 1-6 cr.  
51311 004 IND, In Person Term Based; Stephanie Carlson ; 1-6 cr.  
51312 005 IND, In Person Term Based; Dante Cicchetti ; 1-6 cr.  
51313 006 IND, 00:00-00:00 , , In Person Term Based; Jed Elison ; 1-6 cr.  
51314 007 IND, 00:00-00:00 , , In Person Term Based; Daniel Berry ; 1-6 cr.  
51315 008 IND, 00:00-00:00 , , In Person Term Based; Michael Georgieff ; 1-6 cr.  
51316 009 IND, 00:00-00:00 , , In Person Term Based; Charisse Pickron ; 1-6 cr.  
51317 010 IND, 00:00-00:00 , , In Person Term Based; Megan Gunnar ; 1-6 cr.  
51318 011 IND, 00:00-00:00 , , In Person Term Based; Canan Karatekin ; 1-6 cr.  
51319 012 IND, 00:00-00:00 , , In Person Term Based; Melissa Koenig ; 1-6 cr.  
51320 013 IND, 00:00-00:00 , , In Person Term Based; Maria Kroupina ; 1-6 cr.  
51321 014 IND, 00:00-00:00 , , In Person Term Based; Gail Ferguson ; 1-6 cr.  
51322 015 IND, 00:00-00:00 , , In Person Term Based; Ann Masten ; 1-6 cr.  
51323 016 IND, 00:00-00:00 , , In Person Term Based; Michele Mazzocco ; 1-6 cr.  
51599 017 IND, 00:00-00:00 , , In Person Term Based; Damien Fair ; 1-6 cr.  
51632 018 IND, 00:00-00:00 , , In Person Term Based; Arthur Reynolds ; 1-6 cr.  
51661 019 IND, 00:00-00:00 , , In Person Term Based; Glenn Roisman ; 1-6 cr.  
51662 020 IND, 00:00-00:00 , , In Person Term Based; Maria Sera ; 1-6 cr.  
51663 021 IND, 00:00-00:00 , , In Person Term Based; Rebecca Shlafer ; 1-6 cr.  
52074 022 IND, In Person Term Based; Kathleen Thomas ; 1-6 cr.

52075 023 IND, In Person Term Based; Philip Zelazo ; 1-6 cr.

### 5181 Clinical Experience in Elementary School Teaching

(S-N or Audit; )  
51115 001 FWK, In Person Term Based; Ann Carlson ; 10 cr.

### 5187 Capstone Project: Improvement of Teaching in Early Childhood Education

(Student Option No Audit; Prereq: Completion of all requirements for Early Childhood Teacher Licensure, other than CI 5181, which is taken concurrently.)

52345 001 DIS, 16:30-18:30 M, Peik Hall 225, In Person Term Based; Ann Carlson ; 2 cr.

### 5241 Practicum in Early Childhood Education

(A-F only; )  
51753 001 LEC, 16:00-18:40 Th, Burton Hall 125, In Person Term Based; Asha Stenzel ; 3 cr.

### 5252 Facilitating Social and Emotional Learning in Early Childhood Education

(A-F only; Prereq: CPSY 2301 or equiv or instr consent. For Early Childhood or ECSE students.)

51286 001 LEC, 16:00-18:40 T, Peik Hall 28, In Person Term Based; Elizabeth Criswell ; 3 cr.

### 5254 Facilitating Creative and Motor Learning in Early Childhood Education

(A-F only; Prereq: CPSY 2301 or equiv or instr consent. For Early Childhood and ECSE students.)

51754 001 LEC, 15:00-16:40 F, Peik Hall 215, In Person Term Based; Kylene Glassmann ; 2 cr.

### 5281 Student Teaching in Early Childhood Education

(S-N or Audit; Prereq: Early Childhood or ECSE student plus successful completion of CPSY 5241, 5252, 5253, and 5254.)

51186 001 FWK, 07:45-12:30 MTWThF, Room TBA, 12:30-14:00 F, Appleby Hall 102, In Person Term Based; Sheila Williams Ridge, Sarah McKee ; 6-8 cr.  
52200 002 FWK, 11:45-16:30 MWTh, Room TBA, 12:30-14:00 F, Appleby Hall 204, In Person Term Based; Sheila Williams Ridge, Sarah McKee ; 6-8 cr.

### 5303 Social and Emotional Development

(Student Option; )

52212 001 LEC, Completely Online; Gail Ferguson ; 3 cr.

### 5503 Development and Psychopathology in Early Childhood

(Student Option; Prereq: 5501 or enrolled in MA program or IECMH graduate minor)  
52210 001 LEC, Completely Online; Elizabeth Carlson ; 3 cr.

### 5506 Infant Observation Seminar I

(S-N only; )  
52211 001 LEC, Completely Online; Michele Fallon ; 1 cr.

### 5521 Prevention and Intervention in Early Childhood: Practice

(A-F only; )  
52351 001 LEC, Completely Online; Jane Ellison, Teya Dahle ; 3 cr.

### 5601 Child Life Theory, Practice and Program Development

(A-F only; )  
52213 001 LEC, Completely Online; Sarah Wiebler ; 3 cr.

### 5602 Developmental Perspectives on Illness and Injury in Healthcare

(A-F only; )  
52214 001 LEC, Completely Online; JoHannah Orman ; 3 cr.

### 5605 Childhood Death and Bereavement

(A-F only; )  
52352 001 LEC, Completely Online; Rachel Calvert ; 3 cr.

### 5991 Independent Study in Child Development

(Student Option No Audit; )  
69600 001 IND, In Person Term Based; Michele Mazzocco ; 1-12 cr.

### 5996 Field Experience in Applied Child and Adolescent Development

(S-N only; )

52353 001 FWK, Completely Online; Anne Larson ; 1-12 cr.  
52354 002 FWK, Completely Online; Arielle Handevit, Carol Siegel ; 1-12 cr.

52355 003 FWK, Completely Online; Sarah Wiebler, Theresa Bunkers ; 1-12 cr.

52410 004 FWK, Completely Online; Elizabeth Carlson ; 1-12 cr.

67793 005 FWK, In Person Term Based; Elizabeth Carlson ; 1-12 cr.

69452 006 FWK, In Person Term Based; Michele Mazzocco ; 1-12 cr.

## China Executive MBA (CHMB)

### 5800 Organizational Behavior

(A-F only; )  
58243 001 LEC, Study Abroad; Michelle Duffy ; 3 cr.

## Chinese (CHN)

### 1012 Beginning Modern Chinese II

(Student Option No Audit; Prereq: 1011 or equiv or instr consent)  
52850 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 001 CHN 4002; Sheng-Fang FU ; 5 cr.  
52851 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 28, In Person Term Based; Meets With: 003 CHN 4002; Hai Liu ; 5 cr.

53532 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 8, In Person Term Based; Meets With: 002 CHN 4002; Jin Stone ; 5 cr.  
53591 050 LEC, 17:30-18:20 Th, Twin Cities Remote, 17:30-19:20 MW, Twin Cities Remote, Completely Online; Meets With: 050 CHN 4002; Hai Liu ; 5 cr.

### 3016 Accelerated Intermediate Modern Chinese

(Student Option No Audit; Prereq: 1012 or 1015; oral/aural skills or speaker of other Chinese dialect recommended)  
53356 001 LEC, 14:30-15:20 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 CHN 4006; Jin Stone ; 5 cr.

### 3022 Intermediate Modern Chinese II

(Student Option No Audit; Prereq: 3021)  
52853 001 LEC, 11:15-12:05 MTWThF, Folwell Hall 4, In Person Term Based; Meets With: 001 CHN 4004; Ling Wang ; 5 cr.  
52854 002 LEC, 13:25-14:15 MTWThF, Folwell Hall 106, In Person Term Based; Meets With: 002 CHN 4004; Ling Wang ; 5 cr.  
53592 050 LEC, 16:30-17:20 Th, Twin Cities Remote, 16:30-18:20 MW, Twin Cities Remote, Completely Online; Meets With: 050 CHN 4004; Ling Wang ; 5 cr.

### 3032 Advanced Modern Chinese II

(Student Option No Audit; Prereq: 3031 or equiv or instr consent)  
53534 001 LEC, 11:15-12:05 MTWTh, Bruininks Hall 123, In Person Term Based; Meets With: 001 CHN 4008; Sheng-Fang FU ; 4 cr.  
54550 002 LEC, 13:25-14:15 MTWTh, Smith Hall 121, In Person Term Based; Meets With: 002 CHN 4008; Sheng-Fang FU ; 4 cr.

### 3202 Intermediate Chinese Calligraphy

(Student Option; Prereq: 3201 or instr consent)  
53533 050 LAB, 18:00-20:00 T, Appleby Hall 201, In Person Term Based; Hong Zhang ; 2 cr.

### 3203 Advanced Chinese Handwriting

(Student Option; )  
55182 001 LAB, 14:30-16:25 T, Appleby Hall 201, In Person Term Based; Hong Zhang ; 2 cr.

### 3993 Directed Studies

(Student Option No Audit; Prereq: instr consent, dept consent, college consent)  
54874 001 IND, In Person Term Based; 1-5 cr.

### 4002 Beginning Modern Chinese II for Graduate Student Research

(Student Option No Audit; Prereq: 4001)  
53605 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 001 CHN 1012; Sheng-Fang FU ; 5 cr.  
53606 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 8, In Person Term Based; Meets With: 002 CHN 1012; Jin Stone ; 5 cr.

53608 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 28, In Person Term Based; Meets With: 003 CHN 1012; Hai Liu ; 5 cr.

53610 050 LEC, 17:30-18:20 Th, Twin Cities Remote, 17:30-19:20 MW, Twin Cities Remote, Completely Online; Meets With: 050 CHN 1012; Hai Liu ; 5 cr.

### 4004 Intermediate Modern Chinese II for Graduate Student Research

(Student Option No Audit; Prereq: 4003)  
53612 001 LEC, 11:15-12:05 MTWThF, Folwell Hall 4, In Person Term Based; Meets With: 001 CHN 3022; Ling Wang ; 5 cr.  
53613 002 LEC, 13:25-14:15 MTWThF, Folwell Hall 106, In Person Term Based; Meets With: 002 CHN 3022; Ling Wang ; 5 cr.  
53685 050 LEC, 16:30-17:20 Th, Twin Cities Remote, 16:30-18:20 MW, Twin Cities Remote, Completely Online; Meets With: 050 CHN 3022; Ling Wang ; 5 cr.

### 4006 Accelerated Intermediate Modern Chinese for Graduate Student Research

(Student Option No Audit; Prereq: 1012 or 1015; oral/aural skills or other Chinese dialect recommended)

54308 001 LEC, 14:30-15:20 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 CHN 3016; Jin Stone ; 5 cr.

### 4008 Advanced Modern Chinese II for Graduate Student Research

(Student Option No Audit; Prereq: 4007)  
53918 001 LEC, 11:15-12:05 MTWTh, Bruininks Hall 123, In Person Term Based; Meets With: 001 CHN 3032; Sheng-Fang FU ; 4 cr.  
54551 002 LEC, 13:25-14:15 MTWTh, Smith Hall 121, In Person Term Based; Meets With: 002 CHN 3032; Sheng-Fang FU ; 4 cr.

### 4022 Flagship Chinese for Professional Purposes

(A-F only; )  
55844 001 LEC, 16:40-18:35 W, Folwell Hall 118, In Person Term Based; Yao Tu ; 2 cr.

### 4042 Advanced Readings in Modern Chinese II

(Student Option; Prereq: 3032 or instr consent)  
54579 001 LEC, 14:30-16:20 TTh, Folwell Hall 116, In Person Term Based; Hai Liu ; 4 cr.

### 5042 Contemporary Chinese Texts 1949-present

(A-F or Audit; Prereq: CHN 4042 or instructor consent. Recommended: CHN 5041)  
55447 001 LEC, 13:25-14:15 MWF, Folwell Hall 119, In Person Term Based; Zhen Zou ; 3 cr.

## Civil, Environ, and Geo-Engin (CEGE)

### 1101 Introduction to Civil, Environmental, and Geo-Engineering

(S-N only; Prereq: Lower div)  
65769 001 LEC, 10:10-11:00 W, Civil Engineering Bldg 205, In Person Term Based; Michelle Anderson ; 1 cr.

### 1501 Environmental Issues and Solutions

(Student Option; Prereq: High school chemistry or equiv, one yr high school algebra ENV, PHYS)  
61288 001 LEC, 11:15-12:30 TTh, Rapson Hall 56, In Person Term Based; Kathy Wabner, Sebastian Behrens ; 4 cr.  
61292 002 LAB, 09:00-12:00 M, Civil Engineering Bldg 650, In Person Term Based; Kathy Wabner, Sebastian Behrens ; 4 cr.  
61293 003 LAB, 13:00-16:00 M, Civil Engineering Bldg 650, In Person Term Based; Kathy Wabner, Sebastian Behrens ; 4 cr.  
61294 004 LAB, 13:00-16:00 T, Civil Engineering Bldg 650, In Person Term Based; Kathy Wabner, Sebastian Behrens ; 4 cr.  
61295 005 LAB, 13:00-16:00 W, Civil Engineering Bldg 650, In Person Term Based; Kathy Wabner, Sebastian Behrens ; 4 cr.

### 3101 Computer Applications I

(A-F or Audit; Prereq: MATH 1372, PHYS 1301, CSE or instructor consent)  
59752 001 LEC, 14:30-15:45 MW, Civil Engineering Bldg 210, In Person Term Based; Stefano Gonella ; 3 cr.

### 3102 Uncertainty and Decision Analysis

**(A-F or Audit; Prereq: MATH 1372 or equiv)**

60238 001 LEC, 10:10-11:00 MW, Rapson Hall 45, In Person Term Based; Randal Barnes ; 3 cr.

60793 003 DIS, 13:25-14:15 W, Civil Engineering Bldg 221, In Person Term Based; Randal Barnes ; 3 cr.

60794 004 DIS, 14:30-15:20 W, Civil Engineering Bldg 221, In Person Term Based; Randal Barnes ; 3 cr.

**3103 Engineering Ethics and Professional Practice****(A-F only; Prereq: Civil Eng. or Environmental Eng. or Geoengineering Upper Division)**

61367 001 DIS, 08:40-09:30 T, Civil Engineering Bldg 205, In Person Term Based; Vaughan Voller ; 1 cr.

**3111 CADD for Civil Engineers****(A-F only; Prereq: CECE 3201)**

61205 001 LAB, 08:00-09:55 MW, Civil Engineering Bldg 221, In Person Term Based; Evan Cosgriff, Jay Dennis ; 2 cr.

**3190 Curricular Practical Training Internship****(S-N only; Prereq: CE, EnvE, or Geo major )**

61405 001 FWK, In Person Term Based; Joseph Labuz ; 1 cr.

**3201 Transportation Engineering****(A-F or Audit; Prereq: PHYS 1301, (CEGE 3101, CECE 3102 can be taken concurrently))**

59256 001 LEC, 13:00-13:50 TTh, Tate Hall 105, In Person Term Based; Michael Levin ; 3 cr.

59257 002 DIS, 14:30-15:20 Th, Civil Engineering Bldg 221, In Person Term Based; Michael Levin ; 3 cr.

**3301 Soil Mechanics I****(A-F or Audit; Prereq: upper division CSE, AEM 3031, CECE 3101, or instructor consent)**

59322 001 LEC, 14:30-15:45 TTh, Mechanical Engineering 212, In Person Term Based; Bojan Guzina ; 3 cr.

59323 002 LAB, 16:00-18:00 M, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina ; 3 cr.

59324 003 LAB, 16:00-18:00 T, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina ; 3 cr.

59325 004 LAB, 16:00-18:00 W, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina ; 3 cr.

59704 005 LAB, 16:00-18:00 Th, Civil Engineering Bldg 350, In Person Term Based; Bojan Guzina ; 3 cr.

**3401 Linear Structural Analysis****(A-F or Audit; Prereq: AEM 3031, upper division CSE or instructor consent)**

59353 001 LEC, 13:00-14:15 MW, Civil Engineering Bldg 210, In Person Term Based; Jialiang Le ; 3 cr.

**3402 Civil Engineering Materials****(A-F or Audit; Prereq: AEM 3031)**

59395 001 LEC, 13:00-14:15 TTh, Civil Engineering Bldg 210, In Person Term Based; Mihai Marasteanu, Merry Rendahl ; 3 cr.

59396 002 LAB, 14:30-16:10 T, Civil Engineering Bldg 188, In Person Term Based; Mihai Marasteanu ; 3 cr.

59397 003 LAB, 11:10-12:50 W, Civil Engineering Bldg 188, In Person Term Based; Mihai Marasteanu ; 3 cr.

59398 004 LAB, 09:00-10:40 Th, Civil Engineering Bldg 188, In Person Term Based; Mihai Marasteanu ; 3 cr.

**3501 Introduction to Environmental Engineering****(A-F or Audit; Prereq: Chem 1062, Phys 1302, Math 1372 or equivalent/ENV)**

59321 001 LEC, 09:45-11:00 TTh, Fraser Hall 101, In Person Term Based; Erin Surdo ; 3 cr.

**3502 Fluid Mechanics****(A-F or Audit; Prereq: [AEM 2012 or AEM 3031], Math 2373, CECE 3101)**

59429 001 LEC, 11:15-12:30 TTh, Civil Engineering Bldg 210, In Person Term Based; Meets With: 001 CECE 4522; Kimberly Hill ; 4 cr.

59430 002 LAB, 09:00-11:00 M, Civil Engineering Bldg 277, In Person Term Based; Kimberly Hill ; 4 cr.

59431 003 LAB, 08:00-10:00 T, Civil Engineering Bldg 277, In Person Term Based; Kimberly Hill ; 4 cr.

59432 004 LAB, 12:45-14:45 T, Civil Engineering Bldg 277, In Person Term Based; Kimberly Hill ; 4 cr.

60948 005 LAB, 14:30-16:30 W, Civil Engineering Bldg 277, In Person Term Based; Kimberly Hill ; 4 cr.

**4000H Honors Research Seminar****(A-F only; Prereq: Upper div CE, EnvE, GeoE, Enrolled in the University Honors Program or instructor consent)**

60808 001 LEC, 00:00-00:00 , , In Person Term Based; Randal Barnes ; 1 cr.

**4094H Senior Honors Thesis****(A-F only; Prereq: Upper div CE)**

61296 001 IND, In Person Term Based; Randal Barnes ; 2 cr.

**4101W Project Management and Engineering Economics****(A-F only; Prerequisites: Civil Eng. or Environmental Eng. or Geoengineering upper divisionWI)**

61368 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 210, In Person Term Based; Randal Barnes ; 3 cr.

**4102W Capstone Design for Civil Engineering****(A-F only; Prereq: 4101W, 4301, 4401, 4501, 4502WI)**

59253 001 LEC, 16:00-18:00 TTh, Civil Engineering Bldg 210, In Person Term Based; Meets With: 001 CECE 4104W001 CECE 4103W; Merry Rendahl, Vaughan Voller ; 4 cr.

**4103W Capstone Design for Environmental Engineering****(A-F only; Prereqs: CECE 4101W, 4501, 4502WI)**

66293 001 LEC, 16:00-18:00 TTh, Civil Engineering Bldg 210, In Person Term Based; Meets With: 001 CECE 4102W001 CECE 4104W; Merry Rendahl, Vaughan Voller ; 4 cr.

**4104W Capstone Design for Geoengineering****(A-F only; Prereq: CECE 4101W, CECE 4121, CECE 4311, CECE 4351, ESCI 4501WI)**

61098 001 LEC, 16:00-18:00 TTh, Civil Engineering Bldg 210, In Person Term Based; Meets With: 001 CECE 4103W001 CECE 4102W; Merry Rendahl, Vaughan Voller ; 4 cr.

**4121 Computer Applications II****(A-F or Audit; Prereq: CECE 3101, MATH 2373 or equivalent, MATH 2374 or equivalent, upper division CSE or instructor consent)**

60655 001 LEC, 13:00-14:15 TTh, Civil Engineering Bldg 202, In Person Term Based; Bojan Guzina ; 3 cr.

**4160 Special Topics****(A-F only; Prereq: Upper div CSE)**

68232 001 LEC, 17:30-18:45 MW, Civil Engineering Bldg 205, In Person Term Based; Meets With: 001 CECE 5180; Judy Yang ; 1-4 cr.

**4180 Independent Study II****(Student Option; Prereq: instr consent)**

59254 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4190 Engineering Co-op Assignment****(A-F only; Prereq: Upper div CE, approval of department co-op director)**

59255 001 FWK, 00:00-00:00 , , In Person Term Based; Joseph Labuz ; 2-6 cr.

**4194 Directed Research****(Student Option; Prereq: Instructor Consent)**

66344 001 IND, In Person Term Based; Erin Surdo, Miki Hondzo, Randal Barnes, Joseph Labuz ; 1-4 cr.

**4201 Principles of Highway Design****(A-F or Audit; Prereq: upper division CSE student, CECE 3201 or instr consent)**

61208 001 LEC, 11:15-12:30 TTh, Civil Engineering Bldg 202, In Person Term Based; Gary Davis ; 3 cr.

**4253 Pavement Engineering and Management****(A-F or Audit; Prereq: [3201, 3301, 3402, upper div CSE] or grad student or instr consent)**

65763 001 LEC, 11:15-12:30 MW, Civil Engineering Bldg 205, In Person Term Based; Mihai Marasteanu ; 3 cr.

**4301 Soil Mechanics II****(A-F or Audit; Prereq: CECE 3301, upper div CSE, or instr consent)**

59538 002 LAB, 16:00-18:00 M, Civil Engineering Bldg 350, In Person Term Based; Otto Strack ; 3 cr.

59705 001 LEC, 14:30-15:45 TTh, Civil Engineering Bldg 210, In Person Term Based; Otto Strack ; 3 cr.

59706 003 LAB, 16:00-18:00 T, Civil Engineering Bldg 350, In Person Term Based; Otto Strack ; 3 cr.

59707 004 LAB, 16:00-18:00 W, Civil Engineering Bldg 350, In Person Term Based; Otto Strack ; 3 cr.

59729 005 LAB, 16:00-18:00 Th, Civil Engineering Bldg 350, In Person Term Based; Otto Strack ; 3 cr.

**4352 Groundwater Modeling****(A-F or Audit; Prereq: 4351, upper div CSE or grad student or instr consent)**

61099 001 LEC, 09:45-11:00 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])**

59457 001 LEC, 09:05-11:00 MW, Civil Engineering Bldg 210, In Person Term Based; Lauren Linderman ; 4 cr.

59458 003 DIS, 12:20-13:10 M, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman ; 4 cr.

59459 004 DIS, 13:25-14:15 M, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman ; 4 cr.

61569 002 DIS, 11:15-12:05 M, Civil Engineering Bldg 202, In Person Term Based; Lauren Linderman ; 4 cr.

**4411 Matrix Structural Analysis****(A-F or Audit; Prereq: CECE 3101, CECE 3401, upper div CSE or grad student or instr consent)**

61289 001 LEC, 14:30-15:20 TTh, Civil Engineering Bldg 205, In Person Term Based; Henryk Stolarski ; 3 cr.

**4412 Reinforced Concrete II****(A-F or Audit; Prereq: CECE 4401, upper div CSE or instr consent; 4411 recommended)**

61290 001 LEC, 13:00-14:15 MW, Civil Engineering Bldg 205, In Person Term Based; Catherine French ; 3 cr.

**4502 Water and Wastewater Treatment****(A-F or Audit; Prereq: CECE 3501 or ChEn 2001 or BBE 3033)**

59378 001 LEC, 09:45-11:00 TTh, Civil Engineering Bldg 210, In Person Term Based; Raymond Hozalski ; 3 cr.

**4512 Open Channel Hydraulics****(A-F or Audit; )**

61572 001 LEC, 11:15-13:10 MW, Amundson Hall 240, In Person Term Based; Michele Guala ; 4 cr.

**4515 Satellite Hydrology: An Introduction to Physical and Data Sciences****(A-F only; Prereqs: CECE 3102, Stat 3021 or equivalent, CECE 4501 recommended)**

69663 001 LEC, 09:45-11:00 MW, Civil Engineering Bldg 188, In Person Term Based; Meets With: 001 CECE 5515; Ardeshir Ebtehaj ; 3 cr.

**4522 Review of Introductory Fluid Mechanics for Graduate Students****(A-F or Audit; )**

61207 001 LEC, 11:15-12:30 TTh, Civil Engineering Bldg 210, In Person Term Based; Meets With: 001 CECE 3502; Kimberly Hill ; 3 cr.

**4561 Solids and Hazardous Wastes****(A-F or Audit; )**

61291 001 LEC, 08:15-09:30 MW, Civil Engineering Bldg 205, In Person Term Based; Paige Novak ; 3 cr.

**5094 Directed Research****(A-F only; Prereq: instr consent)**

69611 001 IND, In Person Term Based; 1-4 cr.

**5180 Special Topics****(A-F or Audit; Prereq: instr consent)**

68244 001 LEC, 17:30-18:45 MW, Civil Engineering Bldg 205, In Person Term Based; Meets With: 001 CECE 4160; Judy Yang ; 1-4 cr.

**5414 Prestressed Concrete Design****(A-F or Audit; Prereq: CECE 4401, upper div CSE or grad student or instr consent)**

61691 001 LEC, 14:30-15:45 MW, Civil Engineering Bldg 205, In Person Term Based; Pouyan Asem ; 3 cr.

**5515 Satellite Hydrology: An Introduction to Physical and Data Sciences****(A-F or Audit; Prereqs: CECE 4501 is recommended)**

69664 001 LEC, 09:45-11:00 MW, Civil Engineering Bldg 188, In Person Term Based; Meets With: 001 CECE 4515; Ardeshir Ebtehaj ; 3 cr.

**Classical/Near Eastern Rel/Cul (CNRC)****1003 World of Rome****(Student Option; HIS)**

54390 001 LEC, 12:20-13:10 MWF, Bruininks Hall 114, In Person Term Based; Spencer Cole ; 3 cr.

**1042 Greek and Roman Mythology****(Student Option; AH)**

53692 001 LEC, 11:15-12:05 MF, Nicholson Hall 275, In Person Term Based; Meets With: 001 CNRC 1042H; Charles McNamara ; 4 cr.

53826 003 DIS, 08:15-09:30 Th, Nicholson Hall 355, In Person Term Based; 4 cr.

53827 004 DIS, 09:45-11:00 T, Koltthoff Hall 140, In Person Term Based; 4 cr.

53828 002 DIS, 08:15-09:30 T, Nicholson Hall 355, In Person Term Based; 4 cr.

53980 005 DIS, 09:45-11:00 Th, Nicholson Hall 120, In Person Term Based; 4 cr.

**1042H Honors Course: Greek and Roman Mythology****(A-F only; AH)**

53693 001 LEC, 11:15-12:05 MF, Nicholson Hall 275, In Person Term Based; Meets With: 001 CNRC 1042; Charles McNamara ; 4 cr.

53694 002 DIS, 11:15-12:30 W, Nicholson Hall 355, In Person Term Based; Charles McNamara ; 4 cr.

**1082 Jesus in History, Art & Culture****(Student Option; HIS)**

55541 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In Person Term Based; Meets With: 001 RELS 3092001 HIST 3092001 RELS 1082001 HIST 1082001 CNRC 3092; Stephen Ahearne-Kroll ; 3 cr.

56057 002 DIS, 10:10-11:00 F, Nicholson Hall 145, In Person Term Based; Meets With: 003 RELS 1082003 HIST 1082; Kristi Lee ; 3 cr.

**3042 Myths, Legends, and Literature of the Ancient Near East****(Student Option; AH)**

68145 001 DIS, 11:15-12:30 TTh, Nicholson Hall 335, In Person Term Based; Eva von Dassow ; 3 cr.

**3061 "Bread and Circuses:" Spectacles and Mass Culture in Antiquity****(Student Option; CIV,HIS)**

66418 001 LEC, 13:00-14:15 MW, Elliott Hall N119, In Person Term Based; Meets With: 001 HIST 3061; Andrew Gallia ; 3 cr.

**3071 Greek and Hellenistic Religions****(Student Option; HIS)**

68136 001 LEC, 11:15-12:30 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 CNRC 5071001 RELS 3071; Stephen Ahearne-Kroll ; 3 cr.

**3072 The Birth of Christianity****(Student Option; AH)**

68137 001 LEC, 14:30-15:45 MW, Nicholson Hall 115, In Person Term Based; Meets With: 001 RELS 3072; Joshua Reno ; 3 cr.

**3074 Exploring the Quran: An intellectual odyssey with Islam's holy scripture****(A-F or Audit; AH)**

55491 001 DIS, 09:45-11:00 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 RELS 3704; Adam Flowers ; 3 cr.

**3081W Classical Epic in Translation****(Student Option; LITR,WI)**

56023 001 DIS, 14:30-15:45 MW, Burton Hall 123, In Person Term Based; Nita Krevans ; 3 cr.

**3092 Jesus in History, Art & Culture****(Student Option; HIS)**

55542 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In Person Term Based; Meets With: 001 CNRC 1082001 HIST 3092001 RELS 1082001 HIST 1082001 RELS 3092; Stephen Ahearne-Kroll ; 3 cr.

56065 003 DIS, 12:20-13:10 F, Nicholson Hall 345, In Person Term Based; Meets With: 002 RELS 3092002 HIST 3092; Kristi Lee ; 3 cr.

**3103 Ancient Greece: Alexander and the East****(Student Option; HIS)**

56024 001 LEC, 09:45-11:00 MW, Nicholson Hall 335, In Person Term Based; Patricia Ahearne-Kroll ; 3 cr.

**3105 Ancient Rome: The Age of Augustus****(Student Option; )**

68186 001 LEC, 14:30-15:45 TTh, Nicholson Hall 145, In Person Term Based; Spencer Cole ; 3 cr.

**3205 Women, Gender, and the Hebrew Bible****(Student Option; AH)**

55493 001 LEC, 13:00-14:15 MW, Nicholson Hall 125, In Person Term Based; Meets With: 001 JWST 3205001 RELS 3205; Tina Sherman ; 3 cr.

**3206 Sex, Murder, and Bodily Discharges: Purity and Pollution in the Ancient World****(Student Option; )**

55505 001 DIS, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 JWST 3206001 RELS 3206001 ANTH 3206001 MEST 3206; Patricia Ahearne-Kroll ; 3 cr.

**3506 The Israeli Mossad in Film and Literature: History, Narrative, and Ethics****(Student Option; GP)**

66488 001 LEC, 14:30-15:45 MW, Koltthoff Hall 137, In Person Term Based; Meets With: 001 JWST 3506; Renana Schneller ; 3 cr.

**3617 Pagans, Christians, Barbarians: The World of Late Antiquity****(A-F or Audit; GP,HIS)**

68969 001 LEC, 08:15-09:30 TTh, Blegen Hall 130, In Person Term Based; Meets With: 001 MEST 3617001 RELS 3543001 HIST 3617; Benjamin Hansen ; 3 cr.

**3896 Internship for Academic Credit****(Student Option; )**

56325 001 IND, In Person Term Based; Spencer Cole ; 1-4 cr.

**3950 Topics in Ancient Culture****(Student Option; )**

69152 001 DIS, 14:30-15:45 TTh, Appleby Hall 223, In Person Term Based; Joshua Reno ; 3 cr.

69163 002 DIS, 11:15-12:30 TTh, Koltthoff Hall 133, In Person Term Based; Charles McNamara ; 3 cr.

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

53803 001 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.

**5071 Greek and Hellenistic Religions****(Student Option; )**

68354 001 DIS, 11:15-12:30 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 CNRC 3071001 RELS 3071; Stephen Ahearne-Kroll ; 3 cr.

**5993 Directed Studies****(Student Option; Prereq-instr consent, dept consent, college consent.)**

53743 001 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.

**5994 Directed Research****(Student Option; Prereq-instr consent, dept consent, college consent.)**

53744 001 IND, In Person Term Based; 1-12 cr.

**5996 Directed Instruction****(Student Option; Prereq-instr consent, dept consent, college consent.)**

53745 001 IND, 00:00-00:00 , In Person Term Based; 1-12 cr.

**Col of Food, Agr & Nat Res Sci (CFAN)****3002 Transfer Student Seminar****(A-F only; )**

65775 001 LEC, 15:00-15:50 T, Twin Cities Remote, Completely Online; Jeff Polski, Anna Capeder ; 1 cr.

**3091V Research Proposals: From Ideas to Strategic Plans****(A-F only; Prereq: If you have less than 60 credits and are interested in this course, please contact the instructor.WI)**

67685 001 LEC, 13:30-14:45 TTh, Haecker Hall 205, In Person Term Based; Meets With: 001 ANSC 5091; Milena Saqui-Salces ; 3 cr.

**3096 Making the Most of your Professional Experience****(A-F only; Prereq: Secured internship, instr consent)**

57119 001 LEC, 14:00-17:00 F, Twin Cities Remote, 14:00-17:00 F, Twin Cities Remote, 14:00-17:00 F, Twin Cities Remote, Completely Online; Mari Ruddy ; 1 cr.

57120 002 LEC, 15:00-18:00 M, Twin Cities Remote, 15:00-18:00 M, Twin Cities Remote, 15:00-18:00 M, Twin Cities Remote, Completely Online; 1 cr.

**3201 Career and Internship Preparation****(A-F only; Prereq: Soph or jr or sr or grad student)**

57015 001 LEC, 11:45-12:35 T, McNeal Hall 395, In Person Term Based; Mary Vidas ; 1 cr.

57197 002 LEC, 16:05-16:55 W, Twin Cities Remote, Completely Online; Mary Vidas ; 1 cr.

**3480 Topics in CFANS****(Student Option; )**

68986 001 LEC, 15:00-16:40 M, Ruttan Hall B22, In Person Term Based; Jeffrey Stamp ; 1-4 cr.

**3523 Greek Agriculture and Gastronomy: A Taste of the Mediterranean****(A-F only; GP)**

67665 001 LEC, 14:30-16:30 F, Coffey Hall 125, 14:30-16:30 F, Coffey Hall 125, 14:30-16:30 F, Coffey Hall 125, 14:30-16:30 F, Coffey Hall 125, 14:30-16:30 F, Coffey Hall 125, In Person Term Based; Tommy Van Norman ; 3 cr.

**3528 Exploring The New Nordic: Food Seasonality and Sustainability in Denmark and Sweden****(A-F only; GP)**

69037 001 LEC, In Person Term Based; Hal DeLaRosby ; 3 cr.

**4801H Honors Thesis****(A-F only; Prereq-Candidate for graduation with honors through CFANS in any major, college consent.)**

57074 001 IND, 00:00-00:00 , Independent/Directed Study; Krishona Martinson ; 3 cr.

57454 002 IND, In Person Term Based; Melissa Palmer ; 3 cr.

57474 003 IND, In Person Term Based; George Annor ; 3 cr.

57483 004 IND, In Person Term Based; Cindy McComas ; 3 cr.

69059 005 IND, In Person Term Based; David Fulton ; 3 cr.

69192 006 IND, In Person Term Based; Jason Hill ; 3 cr.

69380 007 IND, In Person Term Based; Matt Petersen ; 3 cr.

**Coll of Science, Engineering (CSE)****1012 Project-based Inquiry****(A-F only; )**

61525 001 LAB, 14:30-16:25 M, Civil Engineering Bldg 335, In Person Term Based; Lorraine Francis ; 2 cr.

61526 002 LAB, 14:30-16:25 T, Civil Engineering Bldg 335, In Person Term Based; Aaron Massari ; 2 cr.

61527 003 LAB, 13:25-15:20 Th, Civil Engineering Bldg 335, In Person Term Based; Lee (they/them) Penn ; 2 cr.

61528 004 LAB, 10:10-12:05 F, Civil Engineering Bldg 335, In Person Term Based; Joshua Feinberg ; 2 cr.

61529 005 LAB, 09:05-11:00 W, Civil Engineering Bldg 335, In Person Term Based; Lorraine Francis, John Sartori ; 2 cr.

61530 006 LAB, 10:10-12:05 Th, Civil Engineering Bldg 335, In Person Term Based; Lauren Linderman, David Orser ; 2 cr.

**4896 Cooperative Industrial Assignment I****(A-F or Audit; Prerequisites for this course, though it is expected that students taking this course have a background in science or engineering appropriate for their industrial co-op position. Registration is by permission only. Please submit your application to the Co-op Program via Handshake to initiate the course access process. Detailed instructions can be found on the co-op website (<https://cse.umn.edu/coop/application-process>). This is the first course in a two-semester sequence. CSE 4896 is offered in the summer and spring semesters. CSE 4996 is offered in the Summer and fall semesters. It is expected that students complete a co-op experience back-to-back (i.e. summer/fall or spring/summer). If your co-op plan differs from that, please email [co-op@umn.edu](mailto:co-op@umn.edu) to receive permission to take the courses in reverse order.)**

67754 001 LEC, 18:00-18:50 M, Twin Cities Remote, Completely Online; Kia Bazargan ; 2 cr.

67755 002 DIS, 19:00-19:50 M, Twin Cities Remote, Completely Online; Kia Bazargan ; 2 cr.

**College of Liberal Arts (CLA)****1002 CLA First-Year Experience II**

**(S-N only; )**

54616 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Amy Palmer ; 1 cr.

56581 150 LEC, Completely Online; Jennifer Endres ; 1 cr.

**1007 CLA First-Year Experience:****Independent Study****(S-N only; )**

55195 001 IND, Completely Online; Jennifer Endres ; 1 cr.

**1052 Dean's First-Year Research and Creative Scholars Program**

**(Student Option; Prereq-Only available to CLA freshmen receiving a CLA Research Opportunity.)**

54218 001 IND, Independent/Directed Study; 2-3 cr.

**1202 BA MD Medical Education Seminar II**

**(Student Option No Audit; )**

55492 001 LEC, 15:35-16:25 M, Health Sciences Edu Ctr 4-191, In Person Term Based; Andrew Slattengren, Renee Crichlow ; 1 cr.

**1915 Language, Food, and Identity**

**(A-F only; )**

66537 001 DIS, 11:15-12:30 TTh, Bruininks Hall 119, In Person Term Based; Polly Sztatowski ; 3 cr.

**2005 Introduction to Liberal Education and Responsible Citizenship**

**(S-N only; Prereq: [CLA 1005], CLA Presidents Emerging Scholars, freshman)**

55565 001 DIS, 14:30-15:45 W, Appleby Hall 11, In Person Term Based; Sonyna Castillo ; 1 cr.

55566 002 DIS, 14:30-15:45 W, Appleby Hall 128, In Person Term Based; Rodrigue Lauture ; 1 cr.

55567 003 DIS, 14:30-15:45 W, Bruininks Hal 121, In Person Term Based; Quinn Nelson ; 1 cr.

55568 004 DIS, 14:30-15:45 W, Ford Hall 115, In Person Term Based; Pao Moua ; 1 cr.

55569 005 DIS, 14:30-15:45 W, Appleby Hall 319, In Person Term Based; Brian Ung ; 1 cr.

55570 006 DIS, 14:30-15:45 W, Appleby Hall 219, In Person Term Based; Jacob Rudy ; 1 cr.

55571 007 DIS, 14:30-15:45 W, Appleby Hall 303, In Person Term Based; Gayle Smaller, Jr. ; 1 cr.

55572 008 DIS, 14:30-15:45 W, Folwell Hall 32, In Person Term Based; Kamille Hakes ; 1 cr.

55573 009 DIS, 14:30-15:45 W, Bruininks Hall 123, In Person Term Based; Kenzie Drexler ; 1 cr.

56535 010 DIS, 14:30-15:45 W, Bruininks Hall 117, In Person Term Based; Omar Diaz ; 1 cr.

**2202 BA/MD Medical Education Seminar IV**

**(Student Option No Audit; )**

56551 001 LEC, 15:35-16:25 M, Health Sciences Edu Ctr 4-193, In Person Term Based; Renee Crichlow, Andrew Slattengren ; 1 cr.

**3002 Career Kickstart: Finding Internships and Other Career-Related Experiences**

**(Student Option No Audit; )**

67620 001 DIS, Completely Online; Laura Heilman, Bridget Bergin ; 1 cr.

67621 002 DIS, 14:30-15:20 W, Tate Hall 120, In Person Term Based; Abby Trout ; 1 cr.

67622 004 DIS, Completely Online; Marlena Yang, Barbara Goodwin ; 1 cr.

68282 003 DIS, 14:30-15:20 Th, Bruininks Hall 432, In Person Term Based; Abby Trout ; 1 cr.

**3201 Career Planning: Preparing for Your Post-Graduation Plans**

**(Student Option No Audit; )**

67625 001 DIS, Completely Online; Chelsea Ochoa ; 2 cr.

67627 003 DIS, Completely Online; Chelsea Ochoa ; 2 cr.

67628 004 DIS, 10:10-12:05 W, Bruininks Hall 131B, In Person Term Based; Chelsea Ochoa ; 2 cr.

67629 005 DIS, Completely Online; Chelsea Ochoa ; 2 cr.

**3205 Law School Exploration**

**(Student Option; )**

67631 001 LEC, Completely Online; Erin Reichelt ; 2 cr.

**3896 Internship Reflection: Making Meaning of Your Experience**

**(Student Option; Prereq: dept consent)**

67630 001 DIS, Completely Online; Charlene Myers ; 1 cr.

**3901 Community Engagement Scholars Program Integrative Capstone Seminar**

**(A-F only; Prereq: Departmental Consent based on program requirements completed or plan for completion determined with program staff. )**

64736 001 DIS, 15:00-16:45 M, Amundson Hall 116, In Person Term Based; Basanti Miller ; 1 cr.

64737 003 DIS, 17:00-18:45 W, Amundson Hall 162, In Person Term Based; 1 cr.

64738 004 DIS, 09:00-10:30 F, Amundson Hall 162, In Person Term Based; Basanti Miller ; 1 cr.

**3993 Directed Study for Community Engagement**

**(A-F only; Prereq: instr consent, dept consent, college consent.)**

64808 001 DIS, In Person Term Based; Laurel Hirt, Monica McKay ; 1-4 cr.

68960 002 DIS, In Person Term Based; Laurel Hirt, Monica McKay ; 1-4 cr.

**Communication Studies (COMM)****1101 Introduction to Public Speaking**

**(Student Option; CIV)**

53485 002 LEC, Completely Online; Annette Madlock Gatison ; 3 cr.

53486 004 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Wendy Anderson ; 3 cr.

53487 005 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Wendy Anderson ; 3 cr.

53488 006 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Diane Odash ; 3 cr.

53489 007 LEC, 08:15-09:30 TTh, Ford Hall 151, In Person Term Based; Heidi Zimmerman ; 3 cr.

53490 008 LEC, 09:45-11:00 TTh, Ford Hall B53, In Person Term Based; Monica Evans ; 3 cr.

53492 010 LEC, 11:15-12:30 TTh, Ford Hall B80, In Person Term Based; Vanessa Nyarko ; 3 cr.

53493 011 LEC, 11:15-12:30 TTh, Ford Hall B53, In Person Term Based; William Heinze ; 3 cr.

53494 012 LEC, 13:00-14:15 TTh, Ford Hall B29, In Person Term Based; John Nordin ; 3 cr.

53495 013 LEC, 13:00-14:15 TTh, Ford Hall B15, In Person Term Based; Eric Short ; 3 cr.

53496 014 LEC, 14:30-15:45 TTh, Ford Hall 110, In Person Term Based; Eric Short ; 3 cr.

53497 015 LEC, 16:00-17:15 TTh, Ford Hall B80, In Person Term Based; Eric Short ; 3 cr.

53498 016 LEC, 08:15-09:30 MW, Ford Hall 151, In Person Term Based; Mike Baxter-Kauf ; 3 cr.

53499 017 LEC, 09:45-11:00 MW, Kolthoff Hall 133, In Person Term Based; Mike Baxter-Kauf ; 3 cr.

53907 019 LEC, 11:15-12:30 MW, Ford Hall 150, In Person Term Based; Rebecca Jurisz ; 3 cr.

53975 021 LEC, 11:15-12:30 MW, Ford Hall B10, In Person Term Based; Liora Elias ; 3 cr.

53976 023 LEC, 13:00-14:15 MW, Ford Hall B80, In Person Term Based; John Nordin ; 3 cr.

53978 020 LEC, 11:15-12:30 MW, Ford Hall B53, In Person Term Based; Mike Baxter-Kauf ; 3 cr.

53979 024 LEC, 13:00-14:15 MW, Ford Hall B29, In Person Term Based; Caitlin Bond ; 3 cr.

54227 018 LEC, 09:45-11:00 MW, Kolthoff Hall 138, In Person Term Based; Rebecca Jurisz ; 3 cr.

55448 001 LEC, Completely Online; Annette Madlock Gatison ; 3 cr.

55449 003 LEC, 08:15-09:30 TTh, Twin Cities Remote, Completely Online; Rebecca Jurisz ; 3 cr.

55512 022 LEC, 13:00-14:15 MW, Ford Hall 151, In Person Term Based; Liora Elias ; 3 cr.

66493 025 LEC, 14:30-15:45 MW, Ford Hall B15, In Person Term Based; Liora Elias ; 3 cr.

**1101H Honors: Introduction to Public Speaking**

**(A-F only; Prereq: HonorsCIV)**

54266 001 LEC, 09:45-11:00 TTh, Ford Hall 170, In Person Term Based; John Nordin ; 3 cr.

**1313W Analysis of Argument**

**(Student Option; WI)**

53500 006 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Annette Madlock Gatison ; 3 cr.

53501 002 LEC, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Sylvia Vue ; 3 cr.

53502 003 LEC, 11:15-12:30 MW, Ford Hall B29, In Person Term Based; Jeffrey VanCleave ; 3 cr.

53503 004 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Sean Quartz ; 3 cr.

53504 005 LEC, 14:30-15:45 MW, Ford Hall B29, In Person Term Based; Jeffrey VanCleave ; 3 cr.

53505 007 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Allison Brenneise ; 3 cr.

53646 008 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Brittany Knutson ; 3 cr.

53908 009 LEC, Completely Online; Allison Brenneise ; 3 cr.

55395 001 LEC, Completely Online; Allison Brenneise ; 3 cr.

**1916 Reproductive Justice**

**(A-F only; )**

66492 001 DIS, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Emily Winderman ; 3 cr.

**3110 Topics in Communication Studies**

**(Student Option; )**

66482 001 LEC, 09:45-11:00 MW, Ford Hall B80, In Person Term Based; Jeffrey VanCleave ; 3 cr.

66740 002 LEC, 16:00-17:00 MW, Ford Hall B29, In Person Term Based; David Cram Helwich ; 3 cr.

66741 003 LEC, 09:45-11:00 TTh, Ford Hall B80, In Person Term Based; Zornitsa Keremidchieva ; 3 cr.

**3201 Introduction to Electronic Media**

**Production**

**(A-F or Audit; )**

53506 001 LAB, 13:25-15:20 W, Ford Hall B53, 13:25-15:20 M, Rarig Center Studio E, In Person Term Based; Michael Tahmoressi ; 4 cr.

53507 002 LAB, 13:25-15:20 W, Rarig Center Studio E, 13:25-15:20 M, Ford Hall B53, In Person Term Based; Lisa Hutchinson ; 4 cr.

53909 004 LAB, 10:10-12:05 Th, Rarig Center Studio E, 10:10-12:05 T, Ford Hall B10, In Person Term Based; Jasmine Baxter ; 4 cr.

54096 005 LAB, 10:10-12:05 MW, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54228 003 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 004 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 005 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 006 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 007 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 008 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 009 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 010 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 011 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 012 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 013 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 014 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 015 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 016 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 017 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 018 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 019 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 020 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 021 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 022 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 023 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 024 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 025 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 026 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 027 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 028 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 029 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 030 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 031 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 032 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 033 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 034 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

54229 035 LAB, 10:10-12:05 Th, Ford Hall B10, 10:10-12:05 T, Rarig Center Studio E, In Person Term Based; Lisa Hutchinson ; 4 cr.

**Commun Engage Scholars Program (CESP)**

**3409 Nonverbal Communication****(Student Option; SOCS)**

55998 001 LEC, 11:15-12:30 TTh, Ford Hall 127, In Person Term Based; Amy Joyer ; 3 cr.

**3411 Introduction to Small Group Communication****(Student Option; )**

53509 001 LEC, Completely Online; Nan Gesche ; 3 cr.  
 53510 002 LEC, 09:45-11:00 MW, Blegen Hall 115, In Person Term Based; Nan Gesche ; 3 cr.  
 53511 003 LEC, Completely Online; Nan Gesche ; 3 cr.  
 53512 005 LEC, 11:15-12:30 TTh, Ford Hall B29, In Person Term Based; Andrea Shada ; 3 cr.  
 53513 006 LEC, 13:00-14:15 TTh, Ford Hall 151, In Person Term Based; Stephanie Galarneault ; 3 cr.  
 54229 004 LEC, 09:45-11:00 TTh, Ford Hall B29, In Person Term Based; Andrea Shada ; 3 cr.

**3422 Interviewing and Communication****(A-F or Audit; )**

53514 001 LEC, 09:45-11:00 TTh, Ford Hall B15, In Person Term Based; Natalie Warren ; 3 cr.  
 53515 002 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Diane Odash ; 3 cr.  
 53910 003 LEC, 13:00-14:15 TTh, Ford Hall B10, In Person Term Based; Andrea Shada ; 3 cr.  
 54852 004 LEC, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Diane Odash ; 3 cr.

**3431 Persuasion Theories****(Student Option; Prereq: Soph recommended)**

55206 001 LEC, 08:15-09:30 TTh, Ford Hall B80, In Person Term Based; Jeremy Rose ; 3 cr.

**3441 Introduction to Organizational Communication****(Student Option; )**

55207 001 LEC, 14:30-15:45 TTh, Ford Hall B80, In Person Term Based; Stephanie Galarneault ; 3 cr.  
 66754 002 LEC, 13:00-14:15 MW, Ford Hall B15, In Person Term Based; Bree Trisler ; 3 cr.

**3601 Introduction to Rhetorical Theory****(Student Option; )**

53516 001 LEC, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Atilla Hallsby ; 3 cr.

**3605W Persuasive Speaking and Speech Writing****(Student Option; Prereq: 1101, sophWI)**

54707 001 LEC, 09:45-11:00 MW, Ford Hall B29, In Person Term Based; Jack Lassiter ; 3 cr.

**3614 Advanced Public Policy and Debate****(A-F only; )**

55344 001 DIS, 18:00-21:00 W, Tate Hall 110, In Person Term Based; David Cram Helwich ; 3 cr.

**3625W Communication Ethics****(A-F or Audit; WI)**

55450 001 LEC, 08:15-09:30 TTh, Twin Cities Remote, Completely Online; Wendy Anderson ; 3 cr.

**3631 Freedom of Speech****(Student Option; CIV)**

54553 001 LEC, 11:15-12:30 TTh, Ford Hall B15, In Person Term Based; Gilbert Rodman ; 3 cr.

**3635W Famous Speeches****(A-F only; WI)**

65823 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Emily Winderman ; 3 cr.

**3645W How Pictures Persuade****(A-F only; WI)**

55579 001 LEC, 13:00-14:15 TTh, Ford Hall B53, In Person Term Based; Austin Fleming ; 3 cr.

**3682W Communicating War****(Student Option; AH,WI,CIV)**

65824 001 LEC, 11:15-12:30 MW, Ford Hall 151, In Person Term Based; Mary Vavrus ; 3 cr.

**3896 Internship for Academic Credit****(Student Option; )**

55630 001 IND, In Person Term Based; Andrea Shada ; 1-4 cr.

**3993 Directed Study****(Student Option; )**

56003 001 IND, In Person Term Based; 1-3 cr.

**3994 Directed Research****(Student Option; )**

53553 001 FWK, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**3996 Directed Instruction****(S-N or Audit; )**

53517 001 FWK, 00:00-00:00 , , In Person Term Based; 3 cr.

**3999W Capstone Project****(S-N only; Prerequisites: COMM major; instructor consentWI)**

53524 001 IND, In Person Term Based; Dawn Schot Klotzbach ; 1 cr.  
 54938 002 IND, 00:00-00:00 , , In Person Term Based; Mark Pedelty ; 1 cr.  
 54939 003 IND, 00:00-00:00 , , In Person Term Based; Carly Danielson ; 1 cr.  
 54940 004 IND, In Person Term Based; Susanne Jones ; 1 cr.  
 54942 006 IND, 00:00-00:00 , , In Person Term Based; Zornitsa Keremidchieva ; 1 cr.  
 54943 007 IND, In Person Term Based; Atilla Hallsby ; 1 cr.  
 56388 008 IND, In Person Term Based; Gilbert Rodman ; 1 cr.  
 69466 005 IND, In Person Term Based; Jeremy Rose ; 1 cr.

**4204 Producing for Television: Theory and Practice****(Student Option; Prereq: 3201, 3204)**

55852 001 FWK, 14:30-16:15 MW, Rarig Center Studio B, In Person Term Based; Dawn Schot Klotzbach ; 4 cr.

**4251 Environmental Communication****(A-F only; ENV)**

55845 001 DIS, Completely Online; Mark Pedelty ; 3 cr.

**4407 Communication and Conflict****(A-F or Audit; Prereq: 3401 or instr consent)**

65825 001 LEC, 11:15-12:30 MW, Ford Hall B80, In Person Term Based; Carly Danielson ; 3 cr.

**4461 Prosocial Communication and Health****(A-F or Audit; )**

56490 001 LEC, 09:45-11:00 MW, Ford Hall B53, In Person Term Based; Susanne Jones ; 3 cr.

**4471 Communication in Marriage and Family****(Student Option; Prereq: 3401 or 3402 or instr consent)**

69465 001 LEC, 11:15-12:30 TTh, Nicholson Hall 125, In Person Term Based; Jeremy Rose ; 3 cr.

**4621W Rhetoric of Feminism****(Student Option; DSJ,WI)**

55847 001 LEC, 13:00-14:15 TTh, Ford Hall B80, In Person Term Based; Zornitsa Keremidchieva ; 3 cr.

**5110 Special Topics in Communication Theory****(Student Option; )**

66742 001 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Atilla Hallsby ; 3 cr.

**5221 Media, Race, and Identity****(Student Option; Prereq: 3211 or instr consent)**

68550 001 LEC, 14:30-15:45 TTh, Ford Hall B29, In Person Term Based; Gilbert Rodman ; 3 cr.

**5441 Communication in Human Organizations****(Student Option; )**

53912 001 LEC, 17:30-20:30 T, Ford Hall B53, In Person Term Based; Jeremy Rose ; 3 cr.

**5970 Directed Study****(Student Option; )**

53518 002 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**Comparative & Molecular Biosci (CMB)****5201 Stopping the next pandemic: vaccines and drugs for battling viral infections****(A-F only; )**

66783 001 LEC, 10:00-12:00 M, Animal Science / Vet Med 295M, In Person Term Based; Yuying Liang, Fang Li ; 2 cr.

**5303 Comparative Models of Disease****(A-F only; )**

45456 001 DIS, In Person Term Based; 2 cr.

**5571 Pathogenomics and Molecular Epidemiology - Learning to Fly****(A-F only; )**

45458 001 LEC, 13:30-15:00 MW, Veterinary Science 215, In Person Term Based; Meets With: 001 CMB 8571; Tim Johnson, Yinduo Ji ; 3 cr.

**5594 Directed Research in Comparative and Molecular Biosciences****(Student Option; Prereq: Jr, instr consent)**

45285 001 LAB, 00:00-00:00 , , In Person Term Based; Hinh Ly ; 1-4 cr.

**5910 Grantwriting: What Makes a Winning Proposal?****(Student Option; )**

45318 001 LEC, 15:00-16:30 M, Veterinary Science 215, In Person Term Based; Meets With: 001 VMED 5910; Mark Rutherford ; 2 cr.

**Comparative Literature (CL)****5992 Directed Reading in Comparative Literature****(Student Option; Prereq: instr consent)**

52856 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**Computer Science (CSCI)****1113 Introduction to C/C++ Programming for Scientists and Engineers****(Student Option; Prereq: Math 1271 or Math 1371 or Math 1571H or instr consent)**

59264 001 LEC, 11:15-12:05 MWF, Keller Hall 3-210, In Person Term Based; Timothy Wrenn ; 4 cr.  
 59265 003 LAB, 14:30-17:30 W, Walter Library B28, In Person Term Based; Timothy Wrenn ; 4 cr.  
 59266 004 LAB, 17:45-20:45 W, Walter Library 106, In Person Term Based; Meets With: 005 CSCI 1113; Timothy Wrenn ; 4 cr.  
 59267 006 LAB, 08:00-11:00 Th, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.  
 59268 005 LAB, 17:45-20:45 W, Walter Library 106, In Person Term Based; Meets With: 004 CSCI 1113; Timothy Wrenn ; 4 cr.  
 59269 007 LAB, 11:15-14:15 Th, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.  
 60282 002 LAB, 14:30-17:30 W, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.  
 60763 011 LAB, 17:45-20:45 W, Keller Hall 1-250, In Person Term Based; Timothy Wrenn ; 4 cr.  
 60981 012 LAB, 17:45-20:45 Th, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.  
 61007 013 LAB, 08:00-11:00 W, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.  
 61051 010 LEC, 15:35-16:25 MWF, Fraser Hall 101, In Person Term Based; Timothy Wrenn ; 4 cr.  
 61073 008 LAB, 14:30-17:30 Th, Walter Library 106, In Person Term Based; Timothy Wrenn ; 4 cr.

**1115 Exploring Computer Science Exercises in C++****(S-N only; )**

61884 001 LEC, 18:00-20:00 M, Bruininks Hall 412, In Person Term Based; Timothy Wrenn ; 1 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)**

60942 001 LEC, 10:10-11:00 MWF, Keller Hall 3-210, In Person Term Based; Nathan Taylor ; 4 cr.  
 60943 002 LAB, 08:00-09:55 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 60944 003 LAB, 10:10-12:05 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 60945 004 LAB, 12:20-14:15 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 60946 005 LAB, 14:30-16:25 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 60993 010 LEC, 18:30-21:00 W, Keller Hall 3-230, In Person Term Based; Andrew Exley ; 4 cr.  
 60994 011 LAB, 18:50-20:45 Th, Keller Hall 1-260, In Person Term Based; Andrew Exley ; 4 cr.

60995 012 LAB, 10:10-12:05 F, Keller Hall 1-260, In Person Term Based; Andrew Exley ; 4 cr.  
 61026 013 LAB, 12:20-14:15 F, Walter Library 106, In Person Term Based; Andrew Exley ; 4 cr.  
 61180 022 LAB, 10:10-12:05 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61181 023 LAB, 12:20-14:15 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61182 024 LAB, 14:30-16:25 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61203 021 LAB, 08:00-09:55 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61204 020 LEC, 10:10-11:00 MWF, Fraser Hall 102, In Person Term Based; Andrew Exley ; 4 cr.  
 61252 006 LAB, 16:40-18:35 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 61265 025 LAB, 16:40-18:35 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61397 007 LAB, 18:50-20:45 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
 61592 027 LAB, 18:50-20:45 Th, Keller Hall 1-250, In Person Term Based; Andrew Exley ; 4 cr.  
 61684 030 LEC, 10:10-11:00 MWF, Amundson Hall 120, In Person Term Based; Charles Chuankai Zhang ; 4 cr.  
 61685 031 LAB, 08:00-09:55 Th, Walter Library B28, In Person Term Based; Charles Chuankai Zhang ; 4 cr.  
 61686 032 LAB, 10:10-12:05 Th, Walter Library B28, In Person Term Based; Charles Chuankai Zhang ; 4 cr.  
 66349 040 LEC, 10:10-11:00 MWF, Amundson Hall 116, In Person Term Based; Angel Sylvester ; 4 cr.  
 66350 041 LAB, 08:00-09:55 Th, Keller Hall 1-260, In Person Term Based; Angel Sylvester ; 4 cr.  
 66351 042 LAB, 10:10-12:05 Th, Keller Hall 1-260, In Person Term Based; Angel Sylvester ; 4 cr.  
 66352 050 LEC, 12:20-13:10 MWF, Amundson Hall 124, In Person Term Based; Logan Stapleton ; 4 cr.  
 66353 051 LAB, 12:20-14:15 Th, Walter Library B28, In Person Term Based; Logan Stapleton ; 4 cr.  
 66354 052 LAB, 14:30-16:25 Th, Walter Library B28, In Person Term Based; Logan Stapleton ; 4 cr.  
 66355 060 LEC, 12:20-13:10 MWF, Amundson Hall 120, In Person Term Based; Risako Owan ; 4 cr.  
 66356 061 LAB, 12:20-14:15 Th, Keller Hall 1-260, In Person Term Based; Risako Owan ; 4 cr.  
 66357 062 LAB, 14:30-16:25 Th, Keller Hall 1-260, In Person Term Based; Risako Owan ; 4 cr.  
 66358 070 LEC, 12:20-13:10 MWF, Amundson Hall 116, In Person Term Based; Nabil Khan ; 4 cr.  
 66359 071 LAB, 16:40-18:35 Th, Lab TBA, In Person Term Based; Nabil Khan ; 4 cr.  
 66360 072 LAB, 08:00-09:55 F, Walter Library B28, In Person Term Based; Nabil Khan ; 4 cr.  
 68109 008 LAB, 08:00-09:55 F, Twin Cities Remote, Completely Online; Nathan Taylor ; 4 cr.

### 1135 Exploring Computer Science Exercises in Python

(S-N only ;)  
 61883 001 LEC, 18:00-20:00 T, Bruininks Hall 432, In Person Term Based; Nathan Taylor, Andrew Exley ; 1 cr.

### 1913 Introduction to Algorithms, Data Structures, and Program Development

(Student Option; Prereq: (EE major and EE 1301) or (CmpE major and EE 1301) or 1103 or 1113 or instr consent)

60940 001 LEC, 14:30-15:20 MWF, Bruininks Hall 230, In Person Term Based; Daniel Kløver ; 4 cr.  
 60941 003 LAB, 14:30-16:25 T, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61008 004 LAB, 16:40-18:35 T, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61071 005 LAB, 18:50-20:45 T, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61074 006 LAB, 08:00-09:55 W, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61161 007 LAB, 10:10-12:05 W, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61183 002 LAB, 12:20-14:15 T, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.  
 61398 008 LAB, 12:20-14:15 W, Walter Library 106, In Person Term Based; Daniel Kløver ; 4 cr.

### 1933 Introduction to Algorithms and Data Structures

(Student Option; Prereq: 1133 or instr consent)  
 60996 001 LEC, 14:30-15:20 MWF, 10 Church Street SE 100, In Person Term Based; Meets With: 001 CSCI 1933H; Chris Dovolis ; 4 cr.  
 60997 002 LAB, 08:00-09:55 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
 60998 003 LAB, 10:10-12:05 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
 60999 004 LAB, 14:30-16:25 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.

61000 005 LAB, 08:00-09:55 W, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
 61001 006 LAB, 10:10-12:05 W, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
 61009 010 LEC, 18:30-21:00 Th, Amundson Hall B75, In Person Term Based; Chad Myers ; 4 cr.  
 61010 011 LAB, 16:40-18:35 M, Keller Hall 1-262, In Person Term Based; Chad Myers ; 4 cr.  
 61011 012 LAB, 18:50-20:45 M, Keller Hall 1-262, In Person Term Based; Chad Myers ; 4 cr.  
 61849 007 LAB, 12:20-14:15 T, Walter Library B28, In Person Term Based; Chris Dovolis ; 4 cr.  
 61866 013 LAB, 14:30-16:25 T, Walter Library B28, In Person Term Based; Chad Myers ; 4 cr.  
 61890 014 LAB, 16:40-18:35 T, Lab TBA, In Person Term Based; Chad Myers ; 4 cr.  
 66404 015 LAB, 18:50-20:45 T, Keller Hall 1-262, In Person Term Based; Chad Myers ; 4 cr.  
 66405 016 LAB, 16:40-18:35 T, Lab TBA, In Person Term Based; Chad Myers ; 4 cr.

### 1933H Honors Introduction to Algorithms and Data Structures

(A-F only; Prereq: [1133 or 1133H] and honors student, or instr consent)  
 61250 001 LEC, 14:30-15:20 MWF, 10 Church Street SE 100, In Person Term Based; Meets With: 001 CSCI 1933; Chris Dovolis ; 4 cr.  
 61254 002 LAB, 12:20-14:15 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)  
 59270 001 LEC, 09:05-09:55 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Kathryn Jensen ; 4 cr.  
 59271 002 DIS, 08:00-08:50 T, Keller Hall 3-111, In Person Term Based; Kathryn Jensen ; 4 cr.  
 59272 003 DIS, 09:05-09:55 T, Keller Hall 2-260, In Person Term Based; Kathryn Jensen ; 4 cr.  
 60361 004 DIS, 10:10-11:00 T, Keller Hall 2-260, In Person Term Based; Kathryn Jensen ; 4 cr.  
 60814 005 DIS, 11:15-12:05 T, Keller Hall 3-111, In Person Term Based; Kathryn Jensen ; 4 cr.  
 60852 006 DIS, 12:20-13:10 T, Molecular Cellular Biol 2-122, In Person Term Based; Kathryn Jensen ; 4 cr.  
 61075 010 LEC, 18:30-21:00 Th, Tate Hall 101, In Person Term Based; Kathryn Jensen ; 4 cr.  
 61076 011 DIS, 15:35-16:25 M, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
 61077 012 DIS, 16:40-17:30 M, Keller Hall 3-111, In Person Term Based; Kathryn Jensen ; 4 cr.  
 61184 013 DIS, 17:45-18:35 M, Keller Hall 3-111, In Person Term Based; Kathryn Jensen ; 4 cr.  
 61593 020 LEC, 15:35-16:25 MWF, Amundson Hall B75, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61594 021 DIS, 14:30-15:20 T, Amundson Hall 120, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61597 022 DIS, 15:35-16:25 T, Akerman Hall 225, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61598 023 DIS, 16:40-17:30 T, Amundson Hall 116, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61735 024 DIS, 17:45-18:35 T, Amundson Hall 116, In Person Term Based; Carl Sturtivant ; 4 cr.

### 2011H Honors Discrete Structures of Computer Science

(A-F only; Prereq: [MATH 1271 or MATH 1371 or MATH 1571H], honors student.)  
 60938 001 LEC, 14:30-15:45 TTh, Keller Hall 3-111, In Person Term Based; Ravi Janardan ; 4 cr.  
 60939 002 DIS, 15:35-16:25 W, Akerman Hall 225, In Person Term Based; Ravi Janardan ; 4 cr.

### 2021 Machine Architecture and Organization

(Student Option; Prereq: 1913 or 1933 or instr consent)  
 59273 001 LEC, 13:25-14:15 MWF, Bruininks Hall 220, In Person Term Based; Christopher Kauffman ; 4 cr.  
 59274 003 LAB, 09:05-09:55 W, Walter Library B28, In Person Term Based; Christopher Kauffman ; 4 cr.  
 59275 004 LAB, 10:10-11:00 W, Walter Library B28, In Person Term Based; Christopher Kauffman ; 4 cr.  
 59854 002 LAB, 08:00-08:50 W, Walter Library B28, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61041 010 LEC, 15:35-16:25 MWF, Bruininks Hall 230, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61085 012 LAB, 09:00-09:50 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61086 013 LAB, 12:20-13:10 W, Keller Hall 1-262, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61185 005 LAB, 10:10-11:00 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.

61399 006 LAB, 11:15-12:05 W, Walter Library B28, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61595 011 LAB, 08:00-08:50 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61738 007 LAB, 11:15-12:05 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61739 008 LAB, 12:20-13:10 W, Walter Library B28, In Person Term Based; Christopher Kauffman ; 4 cr.  
 61740 014 LAB, 13:25-14:15 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
 66407 009 LAB, 12:20-13:10 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
 67807 015 LAB, 14:30-15:20 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.

### 2033 Elementary Computational Linear Algebra

(Student Option; Prereq: [MATH 1271 or MATH 1371], [1113 or 1133 or knowledge of programming concepts])  
 60780 001 LEC, 10:10-11:00 MWF, Anderson Hall 310, In Person Term Based; Ju Sun ; 4 cr.  
 60781 002 DIS, 10:10-11:00 T, Rapson Hall 58, In Person Term Based; Ju Sun ; 4 cr.  
 60782 003 DIS, 11:15-12:05 T, Amundson Hall 240, In Person Term Based; Ju Sun ; 4 cr.  
 60783 004 DIS, 12:20-13:10 T, Amundson Hall 240, In Person Term Based; Ju Sun ; 4 cr.  
 61100 013 DIS, 15:35-16:25 T, Amundson Hall 240, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61101 011 DIS, 13:25-14:15 T, Amundson Hall 240, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61102 012 DIS, 14:30-15:20 T, Keller Hall 3-125, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61266 010 LEC, 13:25-14:15 MWF, Nicholson Hall 155, In Person Term Based; Carl Sturtivant ; 4 cr.  
 61741 005 DIS, 13:25-14:15 T, Vincent Hall 207, In Person Term Based; Ju Sun ; 4 cr.  
 66408 014 DIS, 16:40-17:30 T, Akerman Hall 327, In Person Term Based; Carl Sturtivant ; 4 cr.

### 2041 Advanced Programming Principles

(Student Option; Prereq: [1913 or 1933], 2011)  
 61013 001 LEC, 13:25-14:15 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Nick Hopper ; 4 cr.  
 61014 002 LAB, 08:00-08:50 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61015 003 LAB, 09:05-09:55 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61016 004 LAB, 10:10-11:00 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61017 005 LAB, 11:15-12:05 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61018 006 LAB, 12:20-13:10 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61019 007 LAB, 13:25-14:15 T, Keller Hall 1-250, In Person Term Based; Nick Hopper ; 4 cr.  
 61186 010 LEC, 09:05-09:55 MWF, Anderson Hall 310, In Person Term Based; Eric Van Wyk ; 4 cr.  
 61187 011 LAB, 15:35-16:25 T, Keller Hall 1-250, In Person Term Based; Eric Van Wyk ; 4 cr.  
 61188 012 LAB, 16:40-17:30 T, Keller Hall 1-250, In Person Term Based; Eric Van Wyk ; 4 cr.  
 61400 013 LAB, 17:45-18:40 T, Keller Hall 1-250, In Person Term Based; Eric Van Wyk ; 4 cr.  
 66409 014 LAB, 14:30-15:20 T, Keller Hall 1-250, In Person Term Based; Eric Van Wyk ; 4 cr.  
 68048 015 LAB, 09:05-09:55 T, Walter Library 106, In Person Term Based; Eric Van Wyk ; 4 cr.  
 68049 016 LAB, 10:10-11:00 T, Walter Library 106, In Person Term Based; Eric Van Wyk ; 4 cr.

### 2081 Introduction to Software Development

(Student Option; Prereq: CSci1133)  
 66414 001 LEC, 14:30-15:20 MW, Molecular Cellular Biol 2-122, Partially Online; Dan Challou ; 4 cr.  
 66415 002 LAB, 15:35-17:30 M, Walter Library 106, In Person Term Based; Dan Challou ; 4 cr.  
 66416 003 LAB, 17:45-19:40 M, Walter Library 106, In Person Term Based; Dan Challou ; 4 cr.

### 2915 Teaching Methods in Computer Science

(S-N only ;)  
 69390 001 LEC, 17:45-19:40 Th, Keller Hall 2-260, In Person Term Based; Phillip Barry, Jacquelyn Burt ; 1 cr.

### 2980 Special Topics in Computer Science

(A-F or Audit ;)  
 68217 001 LEC, 18:00-20:00 M, Bruininks Hall 230, In Person Term Based; Shana Watters, Maria Gini ; 1-4 cr.  
 68696 002 LEC, 18:00-20:00 T, Bruininks Hall 530A, In Person Term Based; Shana Watters ; 1-4 cr.

### 3041 Introduction to Discrete Structures and Algorithms

(Student Option; Prerequisite: CSci 2081, concurrent registration with CSci 2081 and upper class standing, or instructor permission.)

66438 001 LEC, 15:35-16:25 MWF, Akerman Hall 327, In Person Term Based; Nathan Taylor ; 4 cr.  
66439 002 DIS, 13:25-14:15 F, Bruininks Hall 119, In Person Term Based; Nathan Taylor ; 4 cr.  
66440 003 DIS, 14:30-15:20 F, Bruininks Hall 119, In Person Term Based; Nathan Taylor ; 4 cr.

### 3061 Introduction to Computer Systems

(Student Option; Prereq: CSci 2081 or instructor permission)

66442 001 LEC, 11:15-12:05 MWF, Akerman Hall 327, In Person Term Based; Chris Dovolis ; 4 cr.  
68952 004 LAB, 11:15-12:05 T, In Person Term Based; Chris Dovolis ; 4 cr.

### 3081W Program Design and Development

(Student Option; Prereq: [2021, 2041]; CS upper div, CS grad, or dept. permissionWI)

59791 001 LEC, 09:45-11:00 TTh, Amundson Hall B75, In Person Term Based; Daniel Orban ; 4 cr.  
59792 002 LAB, 08:00-08:50 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
59793 003 LAB, 09:05-09:55 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
60764 004 LAB, 10:10-11:00 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
61012 011 LAB, 12:20-13:10 F, Keller Hall 1-262, In Person Term Based; Daniel Orban ; 4 cr.  
61027 010 LEC, 14:30-15:45 TTh, Keller Hall 3-210, In Person Term Based; Daniel Orban ; 4 cr.  
61028 012 LAB, 13:25-14:15 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
61253 013 LAB, 14:30-15:20 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
61596 014 LAB, 15:35-16:25 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
66446 005 LAB, 11:15-12:05 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
66447 006 LAB, 12:20-13:10 F, Keller Hall 1-250, In Person Term Based; Daniel Orban ; 4 cr.  
66450 015 LAB, 11:15-12:05 F, Keller Hall 1-262, In Person Term Based; Daniel Orban ; 4 cr.

### 3970 Industrial Student Co-op Assignment

(S-N or Audit; Prereq: CSci, in co-op program, instr consent)

59545 001 FWK, 00:00-00:00, Independent/Directed Study; Chris Dovolis ; 2 cr.

### 4011 Formal Languages and Automata

#### Theory

(Student Option; Prereq: 2041 or instr consent)

59214 001 LEC, 13:00-14:15 MW, Tate Hall 105, In Person Term Based; Gopalan Nadathur ; 4 cr.  
59215 002 DIS, 12:20-13:10 F, Keller Hall 3-125, In Person Term Based; Gopalan Nadathur ; 4 cr.  
59216 003 DIS, 13:25-14:15 F, Keller Hall 3-125, In Person Term Based; Gopalan Nadathur ; 4 cr.  
60895 004 DIS, 14:30-15:20 F, Amundson Hall 240, In Person Term Based; Gopalan Nadathur ; 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)

59276 001 LEC, 13:00-14:15 TTh, Keller Hall 3-210, In Person Term Based; James Moen ; 4 cr.  
59277 003 DIS, 10:10-11:00 F, Keller Hall 3-125, In Person Term Based; James Moen ; 4 cr.  
59855 002 DIS, 09:05-09:55 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.  
60552 004 DIS, 11:15-12:05 F, Keller Hall 3-125, In Person Term Based; James Moen ; 4 cr.  
60765 005 DIS, 12:20-13:10 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.  
60804 006 DIS, 13:25-14:15 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.  
61078 007 DIS, 14:30-15:20 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.  
61189 010 LEC, 16:00-17:15 MW, Keller Hall 3-210, In Person Term Based; James Parker ; 4 cr.  
61190 011 DIS, 15:35-16:25 Th, Amundson Hall 240, In Person Term Based; James Parker ; 4 cr.  
61191 012 DIS, 16:40-17:30 Th, Amundson Hall 240, In Person Term Based; James Parker ; 4 cr.  
61473 020 LEC, 09:45-11:00 TTh, Tate Hall 105, In Person Term Based; James Moen ; 4 cr.  
61474 021 DIS, 09:00-09:55 F, Keller Hall 3-125, In Person Term Based; James Moen ; 4 cr.  
61475 022 DIS, 10:10-11:00 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.  
61599 023 DIS, 11:15-12:05 F, Rapson Hall 45, In Person Term Based; James Moen ; 4 cr.

### 4061 Introduction to Operating Systems

(Student Option; Prereq: 2021 or EE 2361; CS upper div, CS minor, CompE upper div., EE upper div., EE grad, IT upper div., Univ. Honors student, or dept. permission; no cr for grads in CSci.)

59211 001 LEC, 11:15-12:30 TTh, Vincent Hall 16, In Person Term Based; Jack Kolb ; 4 cr.  
59212 003 LAB, 09:05-09:55 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.  
59213 004 LAB, 10:10-11:00 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.  
60706 005 LAB, 11:15-12:05 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.  
60853 011 LAB, 12:20-13:10 M, Keller Hall 1-250, In Person Term Based; Jon Weissman ; 4 cr.  
61087 010 LEC, 13:00-14:15 TTh, Tate Hall 101, In Person Term Based; Jon Weissman ; 4 cr.  
61088 013 LAB, 14:30-15:20 M, Keller Hall 1-250, In Person Term Based; Jon Weissman ; 4 cr.  
61089 014 LAB, 15:35-16:25 M, Keller Hall 1-250, In Person Term Based; Jon Weissman ; 4 cr.  
61160 012 LAB, 13:25-14:15 M, Keller Hall 1-250, In Person Term Based; Jon Weissman ; 4 cr.  
61401 002 LAB, 08:00-08:50 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.  
66459 020 LEC, 16:00-17:15 TTh, Smith Hall 231, In Person Term Based; Jack Kolb ; 4 cr.  
66460 021 LAB, 16:40-17:30 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.  
66461 023 LAB, 15:35-16:25 M, Keller Hall 1-262, In Person Term Based; Jack Kolb ; 4 cr.  
66462 022 LAB, 17:45-18:35 M, Keller Hall 1-250, In Person Term Based; Jack Kolb ; 4 cr.

### 4131 Internet Programming

(Student Option; Prereq: 4061, 4211 recommended, cannot be taken for grad CSci cr)

59737 001 LEC, 11:15-12:30 MW, Tate Hall 101, In Person Term Based; Dan Challou ; 3 cr.  
66465 002 LEC, 18:30-21:00 T, Twin Cities Remote, Completely Online; Dan Challou ; 3 cr.

### 4203 Computer Architecture

(Student Option; Prereq: 2021 or instr consent)

59210 001 LEC, 09:45-11:00 TTh, Vincent Hall 16, In Person Term Based; Meets With: 001 EE 4363; Ulya Karpuzcu ; 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)

60937 001 LEC, 14:30-15:45 MW, Smith Hall 331, In Person Term Based; Feng Qian ; 3 cr.

### 4271W Development of Secure Software

#### Systems

(A-F or Audit; Prerequisites: 3081WWWI)

61623 001 LEC, 09:45-11:00 TTh, Rapson Hall 43, In Person Term Based; Stephen McCamant ; 4 cr.  
61624 002 LAB, 09:05-09:55 M, Keller Hall 1-262, In Person Term Based; Stephen McCamant ; 4 cr.  
61625 003 LAB, 10:10-11:00 M, Keller Hall 1-262, In Person Term Based; Stephen McCamant ; 4 cr.

### 4511W Introduction to Artificial Intelligence

(Student Option; Prereq: 2041 or instr consentWI)

60720 001 LEC, 11:15-12:30 TTh, Amundson Hall B75, In Person Term Based; James Parker ; 4 cr.  
61268 002 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Maria Gini ; 4 cr.

### 4611 Programming Interactive Computer

#### Graphics and Games

(Student Option; Prereq: 2021 or instr consent)

60985 001 LEC, 16:00-17:15 TTh, Tate Hall 101, In Person Term Based; Evan Suma Rosenberg ; 3 cr.

### 4707 Practice of Database Systems

(Student Option; Prereq: 4041 or instr consent)

60854 001 LEC, 09:45-11:00 MW, Anderson Hall 250, In Person Term Based; Jaideep Srivastava ; 3 cr.  
66466 002 LEC, 14:30-15:45 TTh, Smith Hall 331, In Person Term Based; Mohamed Mokbel ; 3 cr.

### 4950 Senior Software Project

(A-F only; Prereq: Upper div CSci, instr consent)

60715 001 DIS, 00:00-00:00, In Person Term Based; Vern Reinhardt, Jeff Lemmerman, Travis Galloway, Mohamed Kishawy ; 3 cr.

### 4970W Advanced Project Laboratory

(Student Option; Prereq: Upper div CSci, 4061, instr consent; cannot be taken for grad crWI)

59514 001 IND, 00:00-00:00, In Person Term Based; 3 cr.  
59908 002 IND, 00:00-00:00, In Person Term Based; Daniel Boley ; 3 cr.  
59909 003 IND, 00:00-00:00, In Person Term Based; Stevie Chancellor ; 3 cr.  
59910 004 IND, 00:00-00:00, In Person Term Based; Abhishek Chandra ; 3 cr.  
59911 005 IND, 00:00-00:00, In Person Term Based; Yao-Yi Chiang ; 3 cr.  
59912 006 IND, 00:00-00:00, In Person Term Based; David Du ; 3 cr.  
59913 007 IND, 00:00-00:00, In Person Term Based; F. Favonia ; 3 cr.  
59914 008 IND, 00:00-00:00, In Person Term Based; Mattia Fazzini ; 3 cr.  
59915 009 IND, 00:00-00:00, In Person Term Based; Maria Gini ; 3 cr.  
59916 010 IND, 00:00-00:00, In Person Term Based; Stephen Guy ; 3 cr.  
59917 011 IND, 00:00-00:00, In Person Term Based; Mats Heimdahl ; 3 cr.  
59918 012 IND, 00:00-00:00, In Person Term Based; Nick Hopper ; 3 cr.  
59919 013 IND, 00:00-00:00, In Person Term Based; Victoria Interrante ; 3 cr.  
59920 014 IND, 00:00-00:00, In Person Term Based; Volkan Isler ; 3 cr.  
59921 015 IND, 00:00-00:00, In Person Term Based; Ravi Janardan ; 3 cr.  
59922 016 IND, 00:00-00:00, In Person Term Based; George Karypis ; 3 cr.  
59923 017 IND, 00:00-00:00, In Person Term Based; Daniel Keefe ; 3 cr.  
59924 018 IND, 00:00-00:00, In Person Term Based; Dan Knights ; 3 cr.  
59925 019 IND, 00:00-00:00, In Person Term Based; Joseph Konstan ; 3 cr.  
59926 020 IND, 00:00-00:00, In Person Term Based; Rui Kuang ; 3 cr.  
59927 021 IND, 00:00-00:00, In Person Term Based; Vipin Kumar ; 3 cr.  
59928 022 IND, 00:00-00:00, In Person Term Based; Kangjie Lu ; 3 cr.  
59929 023 IND, 00:00-00:00, In Person Term Based; Stephen McCamant ; 3 cr.  
59930 024 IND, 00:00-00:00, In Person Term Based; Mohamed Mokbel ; 3 cr.  
59931 025 IND, 00:00-00:00, In Person Term Based; Chad Myers ; 3 cr.  
59932 026 IND, 00:00-00:00, In Person Term Based; Gopalan Nadathur ; 3 cr.  
59933 027 IND, 00:00-00:00, In Person Term Based; Nikolaos Papanikolopoulos ; 3 cr.  
59934 028 IND, 00:00-00:00, In Person Term Based; Hyun Soo Park ; 3 cr.  
59935 029 IND, 00:00-00:00, In Person Term Based; Feng Qian ; 3 cr.  
59936 030 IND, 00:00-00:00, In Person Term Based; Yousef Saad ; 3 cr.  
59937 031 IND, 00:00-00:00, In Person Term Based; Junaed Sattar ; 3 cr.  
59938 032 IND, 00:00-00:00, In Person Term Based; Paul Schrater ; 3 cr.  
59939 033 IND, 00:00-00:00, In Person Term Based; Shashi Shekhar ; 3 cr.  
59940 034 IND, 00:00-00:00, In Person Term Based; Jaideep Srivastava ; 3 cr.  
59941 035 IND, 00:00-00:00, In Person Term Based; Evan Suma Rosenberg ; 3 cr.  
59942 036 IND, 00:00-00:00, In Person Term Based; Ju Sun ; 3 cr.  
59943 037 IND, 00:00-00:00, In Person Term Based; Loren Terveen ; 3 cr.  
59944 038 IND, 00:00-00:00, In Person Term Based; Anand Tripathi ; 3 cr.  
59945 039 IND, 00:00-00:00, In Person Term Based; Eric Van Wyk ; 3 cr.  
59946 040 IND, 00:00-00:00, In Person Term Based; Jon Weissman ; 3 cr.  
60311 041 IND, 00:00-00:00, In Person Term Based; Lana Yarosh ; 3 cr.  
60312 042 IND, 00:00-00:00, In Person Term Based; Pen-Chung Yew ; 3 cr.  
60313 043 IND, 00:00-00:00, In Person Term Based; Antonia Zhai ; 3 cr.  
60667 044 IND, 00:00-00:00, In Person Term Based; Zhi-Li Zhang ; 3 cr.  
61057 045 IND, 00:00-00:00, In Person Term Based; Catherine Zhao ; 3 cr.  
61153 046 IND, 00:00-00:00, In Person Term Based; Ali Anwar ; 3 cr.  
61236 047 IND, In Person Term Based; Dongyeop Kang ; 3 cr.

### 5103 Operating Systems

(Student Option; Prereq: 4061 or instr consent)

60815 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 108, In Person Term Based; Anand Tripathi ; 3 cr.  
60829 883 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Anand Tripathi ; 3 cr.

### 5105 Introduction to Distributed Systems (Student Option; Prereq: [5103 or equiv] or instr consent)

60816 001 LEC, 14:30-15:45 TTh, Mechanical Engineering 108, In Person Term Based; Abhishek Chandra ; 3 cr.  
60832 883 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Abhishek Chandra ; 3 cr.

### 5115 User Interface Design, Implementation and Evaluation (Student Option; Prereq: 4041 or instr consent)

61080 001 LEC, 13:00-14:15 TTh, Akerman Hall 209, In Person Term Based; Lana Yarosh ; 3 cr.  
66637 002 LEC, 16:00-17:15 TTh, Keller Hall 3-115, In Person Term Based; Lana Yarosh ; 3 cr.

### 5117 Developing the Interactive Web

(Student Option; Prereq: 4131 or 5131 or instr consent; upper div or grad in CSci recommended)  
66638 001 LEC, 11:15-12:30 MW, Keller Hall 3-125, In Person Term Based; Daniel Kluever ; 3 cr.

### 5125 Collaborative and Social Computing

(Student Option; Prereq: 5115 or instr consent)  
66639 001 LEC, 09:45-11:00 MW, ONLINE BLENDED, 09:45-11:00 MW, Keller Hall 3-111, Partially Online; Loren Terveen ; 3 cr.

### 5221 Foundations of Advanced Networking

(Student Option; Prereq: 4211 or 5211 or equiv; intro course in computer networks recommended)  
66640 001 LEC, 13:00-14:15 MW, Keller Hall 3-115, In Person Term Based; Zhi-Li Zhang ; 3 cr.  
68470 883 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Zhi-Li Zhang ; 3 cr.

### 5302 Analysis of Numerical Algorithms

(Student Option; Prereq: 2031 or 2033 or instr consent)  
59209 001 LEC, 16:00-17:15 MW, ONLINE BLENDED, 16:00-17:15 MW, Akerman Hall 209, Partially Online; Daniel Boley ; 3 cr.

### 5421 Advanced Algorithms and Data Structures

(Student Option; Prereq: 4041 or instr consent)  
59722 001 LEC, 18:30-21:00 W, Keller Hall 3-210, In Person Term Based; Carl Sturivant ; 3 cr.  
60252 883 LEC, 18:30-21:00 W, Twin Cities Remote, Completely Online; Carl Sturivant ; 3 cr.

### 5451 Introduction to Parallel Computing: Architectures, Algorithms, and Programming

(Student Option; Prereq: 4041 or instr consent)  
60712 001 LEC, 09:45-11:00 TTh, Mechanical Engineering 108, In Person Term Based; Christopher Kauffman ; 3 cr.  
60717 883 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Christopher Kauffman ; 3 cr.

### 5461 Functional Genomics, Systems Biology, and Bioinformatics

(Student Option; Prereq: 3003 or 4041 or instr consent)  
61403 001 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Rui Kuang ; 3 cr.

### 5512 Artificial Intelligence II

(Student Option; Prereq: [STAT 3021, 4041] or instr consent)  
60798 001 LEC, 16:00-17:15 TTh, Mechanical Engineering 212, In Person Term Based; James Parker ; 3 cr.  
60835 883 LEC, 16:00-17:15 TTh, Twin Cities Remote, Completely Online; James Parker ; 3 cr.

### 5521 Machine Learning Fundamentals

(Student Option; Prereq: [2031 or 2033], STAT 3021, and knowledge of partial derivatives)  
61084 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Catherine Zhao ; 3 cr.

### 5523 Introduction to Data Mining

(Student Option; Prereq: 4041 or equiv or instr consent)  
61079 001 LEC, 14:30-15:45 MW, Keller Hall 3-210, In Person Term Based; Michael Steinbach ; 3 cr.  
61114 883 LEC, 14:30-15:34 MW, Twin Cities Remote, Completely Online; Michael Steinbach ; 3 cr.

### 5525 Machine Learning: Analysis and Methods

(Student Option; Prereq: Grad student or instr consent)

61793 001 LEC, 11:15-12:30 TTh, Keller Hall 3-230, In Person Term Based; Paul Schrater ; 3 cr.  
61808 883 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Paul Schrater ; 3 cr.

### 5541 Natural Language Processing

(Student Option; Prerequisite: CSCI 2041)  
68565 001 LEC, 14:30-15:45 MW, Keller Hall 3-230, In Person Term Based; Andrew Exley ; 3 cr.  
69189 883 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Andrew Exley ; 3 cr.

### 5551 Introduction to Intelligent Robotic Systems

(Student Option; Prereq: 2031 or 2033 or instr consent)  
61601 001 LEC, 14:30-15:45 TTh, Keller Hall 3-230, In Person Term Based; Junaed Sattar ; 3 cr.  
61630 883 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Junaed Sattar ; 3 cr.

### 5552 Sensing and Estimation in Robotics

(Student Option; Prereq: [5551, Stat 3021] or instr consent)  
61602 001 LEC, 13:00-14:15 MW, Mechanical Engineering 108, In Person Term Based; Volkan Isler ; 3 cr.  
61637 883 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Volkan Isler ; 3 cr.

### 5561 Computer Vision

(Student Option; Prereq: CSci 5511, 5521, or instructor consent.)  
59376 001 LEC, 16:00-17:15 TTh, Mechanical Engineering 108, In Person Term Based; Hyun Soo Park ; 3 cr.  
60255 883 LEC, 16:00-17:15 TTh, Twin Cities Remote, Completely Online; Hyun Soo Park ; 3 cr.

### 5607 Fundamentals of Computer Graphics 1

(Student Option; Prereq: concurrent registration is required (or allowed) in 2033, concurrent registration is required (or allowed) in 3081)  
61722 001 LEC, 18:30-21:00 T, Mechanical Engineering 108, Partially Online; Victoria Interrante ; 3 cr.  
61724 883 LEC, 18:30-21:00 T, Twin Cities Remote, Completely Online; Victoria Interrante ; 3 cr.

### 5609 Visualization

(Student Option; Prereq: [1913, 4041] or equiv or instr consent)  
66644 001 LEC, 14:30-15:45 MW, Mechanical Engineering 108, In Person Term Based; Daniel Keefe ; 3 cr.  
68726 883 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Daniel Keefe ; 3 cr.

### 5708 Architecture and Implementation of Database Management Systems

(Student Option; Prereq: 4707 or 5707 or instr consent)  
59217 001 LEC, 18:30-21:00 M, Mechanical Engineering 212, In Person Term Based; Mohamed Mokbel ; 3 cr.  
60288 883 LEC, 18:30-21:00 M, Twin Cities Remote, Completely Online; Mohamed Mokbel ; 3 cr.

### 5751 Big Data Engineering and Architecture

(Student Option; Prereq: 4041, 5707, or instructor consent.)  
68551 001 LEC, 14:00-16:45 FSA, Keller Hall 3-111, In Person Term Based; Meets With: 001 SENG 5709; Chad Dvoracek ; 3 cr.

### 5801 Software Engineering I

(Student Option; Prereq: 2041 or instr consent)  
61022 001 LEC, 13:00-14:15 MW, West Bank Skyway 20, In Person Term Based; Shana Watters ; 3 cr.  
61622 002 LEC, 09:45-11:00 MW, Anderson Hall 270, In Person Term Based; Sanjai Rayadurgam ; 3 cr.

### 5802 Software Engineering II

(Student Option; Prereq: 5801 or instr consent)  
60646 001 LEC, 16:00-17:15 MW, Mechanical Engineering 212, In Person Term Based; Mattia Fazzini ; 3 cr.  
60652 883 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Mattia Fazzini ; 3 cr.

### 5980 Special Topics in Computer Science

(Student Option; Prereq: instr consent; may be repeated for cr)  
68165 001 LEC, 09:45-11:00 MW, Keller Hall 3-125, In Person Term Based; Meets With: 002 CSCI 8980; Gopalan Nadathur ; 1-3 cr.  
68166 002 LEC, 16:00-17:15 MW, Amundson Hall 120, In Person Term Based; Meets With: 003 CSCI 8980; Yao-Yi Chiang ; 1-3 cr.

68569 003 LEC, 14:30-15:45 TTh, Molecular Cellular Biol 2-122, In Person Term Based; David Du ; 1-3 cr.

### 5991 Independent Study

(Student Option; Prereq: instr consent; may be repeated for cr)  
59470 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.  
59947 002 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Boley ; 1-3 cr.  
59948 003 IND, 00:00-00:00 , , Independent/Directed Study; Stevie Chancellor ; 1-3 cr.  
59949 004 IND, 00:00-00:00 , , Independent/Directed Study; Abhishek Chandra ; 1-3 cr.  
59950 005 IND, 00:00-00:00 , , Independent/Directed Study; Yao-Yi Chiang ; 1-3 cr.  
59951 006 IND, 00:00-00:00 , , Independent/Directed Study; David Du ; 1-3 cr.  
59952 007 IND, 00:00-00:00 , , Independent/Directed Study; F. Favonia ; 1-3 cr.  
59953 008 IND, 00:00-00:00 , , Independent/Directed Study; Mattia Fazzini ; 1-3 cr.  
59954 009 IND, 00:00-00:00 , , Independent/Directed Study; Maria Gini ; 1-3 cr.  
59955 010 IND, 00:00-00:00 , , Independent/Directed Study; Stephen Guy ; 1-3 cr.  
59956 011 IND, 00:00-00:00 , , Independent/Directed Study; Mats Heimdahl ; 1-3 cr.  
59957 012 IND, 00:00-00:00 , , Independent/Directed Study; Nick Hopper ; 1-3 cr.  
59958 013 IND, 00:00-00:00 , , Independent/Directed Study; Victoria Interrante ; 1-3 cr.  
59959 014 IND, 00:00-00:00 , , Independent/Directed Study; Volkan Isler ; 1-3 cr.  
59960 015 IND, 00:00-00:00 , , Independent/Directed Study; Ravi Janardan ; 1-3 cr.  
59961 016 IND, 00:00-00:00 , , Independent/Directed Study; George Karypis ; 1-3 cr.  
59962 017 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Keefe ; 1-3 cr.  
59963 018 IND, 00:00-00:00 , , Independent/Directed Study; Dan Knights ; 1-3 cr.  
59964 019 IND, 00:00-00:00 , , Independent/Directed Study; Joseph Konstan ; 1-3 cr.  
59965 020 IND, 00:00-00:00 , , Independent/Directed Study; Rui Kuang ; 1-3 cr.  
59966 021 IND, 00:00-00:00 , , Independent/Directed Study; Vipin Kumar ; 1-3 cr.  
59967 022 IND, 00:00-00:00 , , Independent/Directed Study; Kangjie Lu ; 1-3 cr.  
59968 023 IND, 00:00-00:00 , , Independent/Directed Study; Stephen McCamant ; 1-3 cr.  
59969 024 IND, 00:00-00:00 , , Independent/Directed Study; Mohamed Mokbel ; 1-3 cr.  
59970 025 IND, 00:00-00:00 , , Independent/Directed Study; Chad Myers ; 1-3 cr.  
59971 026 IND, 00:00-00:00 , , Independent/Directed Study; Gopalan Nadathur ; 1-3 cr.  
59972 027 IND, 00:00-00:00 , , Independent/Directed Study; Nikolaos Papanikolopoulos ; 1-3 cr.  
59973 028 IND, 00:00-00:00 , , Independent/Directed Study; Hyun Soo Park ; 1-3 cr.  
59974 029 IND, 00:00-00:00 , , Independent/Directed Study; Feng Qian ; 1-3 cr.  
59975 030 IND, 00:00-00:00 , , Independent/Directed Study; Yousef Saad ; 1-3 cr.  
59976 031 IND, 00:00-00:00 , , Independent/Directed Study; Junaed Sattar ; 1-3 cr.  
59977 032 IND, 00:00-00:00 , , Independent/Directed Study; Paul Schrater ; 1-3 cr.  
59978 033 IND, 00:00-00:00 , , Independent/Directed Study; Shashi Shekhar ; 1-3 cr.  
59979 034 IND, 00:00-00:00 , , Independent/Directed Study; Jaideep Srivastava ; 1-3 cr.  
59980 035 IND, 00:00-00:00 , , Independent/Directed Study; Evan Suma Rosenburg ; 1-3 cr.  
59981 036 IND, 00:00-00:00 , , Independent/Directed Study; Ju Sun ; 1-3 cr.  
59982 037 IND, 00:00-00:00 , , Independent/Directed Study; Loren Terveen ; 1-3 cr.  
59983 038 IND, 00:00-00:00 , , Independent/Directed Study; Anand Tripathi ; 1-3 cr.  
59984 039 IND, 00:00-00:00 , , Independent/Directed Study; Eric Van Wyk ; 1-3 cr.  
59985 040 IND, 00:00-00:00 , , Independent/Directed Study; Jon Weissman ; 1-3 cr.  
60314 041 IND, 00:00-00:00 , , Independent/Directed Study; Lana Yarosh ; 1-3 cr.  
60315 042 IND, 00:00-00:00 , , Independent/Directed Study; Pen-Chung Yew ; 1-3 cr.  
60316 043 IND, 00:00-00:00 , , Independent/Directed Study; Antonia Zhai ; 1-3 cr.  
60668 044 IND, 00:00-00:00 , , Independent/Directed Study; Zhi-Li Zhang ; 1-3 cr.  
61058 045 IND, 00:00-00:00 , , In Person Term Based; Catherine Zhao ; 1-3 cr.



63525 001 LAB, 09:30-13:30 Sa, Twin Cities Remote, 09:30-13:30 Sa, Twin Cities Remote, 09:30-13:30 Sa, Twin Cities Remote, 09:30-13:30 Sa, Twin Cities Remote, 09:30-13:30 Sa, Twin Cities Remote, Completely Online; Katie Schuver ; 3 cr.

63526 002 LEC, 13:30-19:30 Sa, Twin Cities Remote, 13:30-19:30 Sa, Twin Cities Remote, 13:30-19:30 Sa, Twin Cities Remote, 13:30-19:30 Sa, Twin Cities Remote, 13:30-19:30 Sa, Twin Cities Remote, Completely Online; Katie Schuver ; 3 cr.

**4312 Hatha Yoga Philosophy, Lifestyle, & Ethics**  
(Student Option; Prereq: CSPH 4311 Foundations of Hatha Yoga: Alignment & Movement Principles. These courses can be taken concurrently.)

63527 001 LAB, 09:30-13:30 Su, Twin Cities Remote, 09:30-13:30 Su, Twin Cities Remote, 09:30-13:30 Su, Twin Cities Remote, 09:30-13:30 Su, Twin Cities Remote, 09:30-13:30 Su, Twin Cities Remote, Completely Online; Katie Schuver ; 3 cr.

63528 002 LEC, 13:30-19:30 Su, Twin Cities Remote, 13:30-19:30 Su, Twin Cities Remote, 13:30-19:30 Su, Twin Cities Remote, 13:30-19:30 Su, Twin Cities Remote, 13:30-19:30 Su, Twin Cities Remote, Completely Online; Katie Schuver ; 3 cr.

**4313 Hatha Yoga Teaching Principles & Methodology**  
(Student Option; Prereq: CSPH 4311 Foundations of Hatha Yoga: Alignment & Movement Principles and CSPH 4312 Hatha Yoga Philosophy, Lifestyle, & Ethics)

63541 002 LAB, 10:00-13:00 F, Twin Cities Remote, Completely Online; Katie Schuver ; 2 cr.

**5101 Introduction to Integrative Healing Practices**  
(Student Option; Prereq: Jr or sr or grad student; or instructor consent)

63504 001 LEC, Completely Online; Robin Austin ; 3 cr.  
63521 002 LEC, Completely Online; Teri Verner ; 3 cr.

**5102 Art of Healing: Self as Healer**  
(Student Option; Prereq: Jr or sr or grad student or instr consent)

63508 001 LEC, 08:00-17:00 F, Weaver-Densford Hall W2-110, 08:00-17:00 F, Weaver-Densford Hall W2-110, Primarily Online; Maureen Anderson ; 1 cr.

**5115 Cultural Awareness, Knowledge and Health**  
(Student Option; Prereq: Jr or sr or grad student or instr consent)

63510 001 LEC, 15:30-18:15 M, Mayo Bldg & Additions D199, In Person Term Based; Craig Hassel ; 3 cr.

**5118 Whole Person, Whole Community: The Reciprocity of Wellbeing**  
(Student Option No Audit; )

63542 001 LEC, Completely Online; Sara Nystuen ; 3 cr.

**5201 Spirituality and Resilience**  
(Student Option; Prereq: Jr or Sr or Grad, or instructor consent)

67710 001 LEC, 16:00-18:30 W, Twin Cities Remote, 09:00-11:30 Sa, Twin Cities Remote, 09:00-11:30 Sa, Twin Cities Remote, 09:00-11:30 Sa, Twin Cities Remote, 09:00-11:30 Sa, Twin Cities Remote, Completely Online; Kathy Marshall ; 2 cr.

**5212 Peacebuilding Through Mindfulness: Transformative Dialogue in the Global Community**  
(Student Option; Prereq: Jr or Sr or Grad, or instructor consent.)

63534 001 LEC, 09:00-16:00 Sa, Mayo Bldg B393 Meditation Rm, 09:00-16:00 Sa, Mayo Bldg & Additions D199, 09:00-16:00 Sa, Mayo Bldg B393 Meditation Rm, Primarily Online; Mark Umbreit ; 3 cr.

**5226 Advanced Meditation: Body, Brain, Mind, and Universe**  
(Student Option; Prereq: CSPH 5225, Jr or sr or grad student, or instr consent)

63506 001 LEC, Completely Online; Douglas Kennedy ; 1 cr.  
67758 002 LEC, Completely Online; Mary Jo Kreitzer ; 1 cr.

**5303 Pain Management and Evidence Based Complementary Health Approaches**  
(A-F only; Prerequisite: Graduate or Professional program student. )

63545 001 LEC, Completely Online; Roni Evans, Gert Bronfort ; 3 cr.

**5305 Introduction to Integrative Mental Health**

(Student Option; Prerequisite: Graduate or Professional student. This course focuses on introducing students to the concept of integrative mental health (IMH). Definitions of IMH, the history and background of the concept, and how it relates to psychiatric care and health care in general will be explored. Students will explore and practice risk-benefit profiles of different modalities in the context of evidence-based mental health care. An emphasis will be placed on the connection between physical and mental health and how that can be approached from an integrative perspective. Topics such as mindfulness and mental health, nutrition and mental health, herbs and supplements in psychiatric care, and the role of functional medicine in IMH will be covered, as well as how psychotherapy and psychotropic medications fit in the IMH framework. Students will review the current diagnostic system for mental health disorders and that can both help and hinder an integrative approach to mental health care. Integrative approaches for assessing mental health concerns will be reviewed, and how to use these approaches alongside a traditional medical approach for maximum benefit will be explored. Students will further review specific modalities for mental health and wellbeing that are less focused on specific systems and more focused on holism and the interplay of systems. Students will also identify and explore different ways of viewing mental health and wellbeing based on cultural and geographical issues, and how these may impact the approaches. )

63787 001 LEC, Completely Online; Laura Sandquist ; 2 cr.

**5313 Acupressure**  
(Student Option; )

67762 001 LEC, 08:00-12:00 Sa, Mayo Bldg & Additions 1250, Primarily Online; Maureen Anderson ; 1 cr.

**5315 Traditional Tibetan Medicine: Ethics, Spirituality, and Healing**  
(Student Option; Prereq: Jr or sr or grad student or instr consent)

63536 001 LEC, Completely Online; Miriam Cameron ; 2 cr.

**5317 Yoga: Ethics, Spirituality, and Healing**  
(Student Option; Prereq Jr or sr or grad; or instructor consent)

63523 001 LEC, Completely Online; Katie Schuver ; 2 cr.

**5343 Ayurveda Medicine: The Science of Self-healing**  
(Student Option; )

63524 001 LEC, Completely Online; Asavari Manvikar ; 2 cr.

**5401 People, Plants, and Drugs: Introduction to Ethnopharmacology**  
(Student Option; Prereq: Jr or Sr or Grad, or instructor consent. Courses in Botany, Chemistry and Pharmacology are useful but not required.)

63517 001 LEC, Completely Online; Lisa Philander ; 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)

63507 001 LEC, 15:30-17:00 T, Twin Cities Remote, Completely Online; Carolyn Denton ; 2 cr.

**5503 Aromatherapy Fundamentals**  
(Student Option; Prereq: Jr or Sr or Grad, or Inst consent)

63533 001 LEC, Completely Online; Janet Tomaino ; 1 cr.

**5535 Reiki Healing**  
(S-N only; Prereq: Jr or sr or grad student or instr consent)

63509 001 LEC, 09:00-17:00 Sa, Twin Cities Remote, 09:00-17:00 Sa, Twin Cities Remote, Completely Online; Deborah Ringdahl ; 1 cr.

**5536 Advanced Reiki Healing: Level II**  
(S-N only; Prereq: CSPH 5535 or instr consent. Students must wait 4-6 months after taking CSPH 5535 before taking CSPH 5536. )

69489 001 LEC, 09:00-17:00 Sa, Twin Cities Remote, 09:00-17:00 Sa, Twin Cities Remote, Completely Online; Deborah Ringdahl ; 1 cr.

**5555 Introduction to Body and Movement-based Therapies**

(Student Option; Prereq: Jr or sr or grad student; or instructor consent)

63505 001 LEC, 15:00-20:00 F, Mayo Bldg & Additions D199, 09:00-16:00 Sa, Mayo Bldg & Additions D199, 15:00-20:00 F, Mayo Bldg & Additions D199, 09:00-16:00 Sa, Mayo Bldg & Additions D199, Partially Online; Barbara Nordstrom-Loeb ; 2 cr.

**5601 Music, Health and Healing**

(Student Option; Prereq: Jr or sr or grad student or instr consent)

63785 001 LEC, Completely Online; Jenzi Silverman ; 2 cr.

**5631 Healing Imagery I**

(Student Option; Prereq: Jr or Sr or Grad, or instructor consent)

63518 001 LEC, Completely Online; Susan Thompson ; 2 cr.

**5641 Animals in Health Care: The Healing Dimensions of Human/Animal Relationships**

(Student Option; Prereq: Jr or sr or grad student, or instructor consent)

63786 001 LEC, Completely Online; Jean Larson ; 3 cr.

**5642 Nature Heals: An Introduction to Nature-Based Therapeutics**

(Student Option; Prereq: Jr, Sr or Grad, or instructor consent)

63535 001 LEC, Completely Online; Jean Larson ; 3 cr.

**5702 Fundamentals of Health Coaching II**

(A-F or Audit; Prereq: CSPH 5701; admitted to Integrative Health and Wellbeing Coaching MA program; or, Integrative Therapies and Healing Practices Certificate-Health Coaching track; or, instr consent. )

63512 001 LEC, 08:30-17:00 ThFSa, Mayo Bldg B393 Meditation Rm, 08:30-17:00 ThFSa, Mayo Bldg B393 Meditation Rm, Partially Online; Karen Lawson, Theresa Nutt ; 4 cr.

**5705 Health Coaching Professional Internship**

(S-N only; Prereq: CSPH 5101, 5701, 5702, 5703, 5706, 5707 (MA only); admitted to Integrative Health and Wellbeing Coaching MA; or, Integrative Therapies and Healing Practices Certificate-Health Coaching track.)

63514 001 LEC, 18:00-21:00 Th, Twin Cities Remote, 18:00-21:00 Th, Twin Cities Remote, 18:00-21:00 Th, Twin Cities Remote, 18:00-21:00 Th, Twin Cities Remote, Completely Online; Theresa Nutt, Karen Lawson ; 2 cr.

**5708 Mind-Body Science and the Art of Transformation**

(Student Option; )

63531 001 LEC, Completely Online; Michele Rae ; 1 cr.

**5709 Health and Wellbeing Group Coaching**

(Student Option No Audit; Prereq: - Admission to the Master of Arts in Integrative Health and Wellbeing Coaching program; or - Admission to or graduation from the Integrative Therapies and Healing Practice Certificate program Health Coaching track; or - Special permission by the Instructors - Satisfactory completion of each of the following courses with a 3.0 or better: CSPH 5701, CSPH 5702, CSPH 5703, CSPH 5705, CSPH 5706, CSPH 5707. )

63538 001 LEC, 12:00-16:00 F, Twin Cities Remote, Completely Online; Theresa Nutt, Karen Lawson ; 2 cr.

**5806 Wellbeing and Resiliency for Health Professionals**

(Student Option; Prereq: Jr or sr or grad, or instructor consent)

63537 001 LEC, Completely Online; Kate Hathaway ; 1 cr.

**5807 Mindfulness in the Workplace: Pause, Practice, Perform**

(Student Option; Prereq Jr or sr or grad, or instructor consent)

63543 001 LEC, Completely Online; Alex Haley ; 2 cr.

**5905 Food Matters: Cook Like Your Life Depends On It**

(Student Option; Prereq: Graduate student in a health professions field, or instructor consent)

68280 002 LEC, 17:00-19:30 M, Twin Cities Remote, 17:00-19:30 M, Twin Cities Remote, 17:00-19:30 M, Twin Cities Remote, 17:00-19:30 M, Twin Cities Remote, 17:00-19:30 M, Twin Cities Remote, 17:00-19:30 M, Twin Cities Remote, Completely Online; Jennifer Breen, Kate Shafto ; 1 cr.

## Cultural Study/Comparative Lit (CSCL)

### 1001W Introduction to Cultural Studies

(Student Option; AH,WI,DSJ)  
52539 001 LEC, 11:15-12:30 TTh, Keller Hall 3-210, In Person Term Based; Matthew Hadley ; 3 cr.

### 1101W Literature

(Student Option; LITR,WI)  
52836 001 LEC, 12:45-14:00 MW, 10 Church Street SE 100, In Person Term Based; Christian Uwe ; 3 cr.

### 1201V Honors Course: Cinema

(Student Option; AH,WI)  
56172 002 DIS, 09:05-09:55 Th, Bruininks Hall 119, In Person Term Based; Meets With: 002 SCMC 1201V; Michelle Lekas ; 4 cr.  
56340 001 LEC, 09:05-12:05 F, Blegen Hall 10, In Person Term Based; Meets With: 001 SCMC 1201V001 CSCL 1201W001 SCMC 1201W; Michelle Lekas ; 4 cr.

### 1201W Cinema

(Student Option; AH,WI)  
53641 001 LEC, 09:05-12:05 F, Blegen Hall 10, In Person Term Based; Meets With: 001 SCMC 1201V001 SCMC 1201W001 CSCL 1201V; Michelle Lekas ; 4 cr.  
54945 002 DIS, 09:05-09:55 T, Bruininks Hall 144, In Person Term Based; Meets With: 002 SCMC 1201W; 4 cr.  
54946 003 DIS, 10:10-11:00 T, Bruininks Hall 144, In Person Term Based; Meets With: 003 SCMC 1201W; Zosha Winegar-Schultz ; 4 cr.  
54947 004 DIS, 10:10-11:00 Th, Tate Hall B65, In Person Term Based; Meets With: 004 SCMC 1201W; Nicholas Henderson ; 4 cr.  
54948 005 DIS, 10:10-11:00 W, Tate Hall B45, In Person Term Based; Meets With: 005 SCMC 1201W; Nicholas Henderson ; 4 cr.  
55055 006 DIS, 11:15-12:05 W, Tate Hall B45, In Person Term Based; Meets With: 006 SCMC 1201W; Nicholas Henderson ; 4 cr.

### 1202W Media: Word, Image, Sound

(Student Option; AH,WI,TS)  
54949 001 LEC, 11:15-12:30 MW, Anderson Hall 270, In Person Term Based; Meets With: 001 SCMC 1202W; Eva Hudecova ; 4 cr.  
54950 002 DIS, 09:05-09:55 M, Keller Hall 2-260, In Person Term Based; Meets With: 002 SCMC 1202W; Clare Harmon ; 4 cr.  
54951 003 DIS, 10:10-11:00 M, Keller Hall 2-260, In Person Term Based; Meets With: 003 SCMC 1202W; Clare Harmon ; 4 cr.  
54952 004 DIS, 10:10-11:00 F, Nicholson Hall 335, In Person Term Based; Meets With: 004 SCMC 1202W; Clare Harmon ; 4 cr.  
54953 005 DIS, 09:05-09:55 W, Nicholson Hall 355, In Person Term Based; Meets With: 005 SCMC 1202W; Lucas Martin ; 4 cr.  
55632 006 DIS, 10:10-11:00 W, Nicholson Hall 355, In Person Term Based; Meets With: 006 SCMC 1202W; Lucas Martin ; 4 cr.

### 1301W Reading Culture: Theory and Practice

(Student Option; AH,WI)  
54653 001 LEC, 08:15-09:30 MW, Nicholson Hall 335, In Person Term Based; Daniel Aufmann ; 3 cr.  
54654 002 LEC, 11:15-12:05 MW, Burton Hall 125, In Person Term Based; Ansel Arnold ; 3 cr.  
54659 003 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Joseph Sannicandro ; 3 cr.

### 1401W Reading Literature: Theory and Practice

(Student Option; LITR,WI)  
54655 001 LEC, 14:30-15:45 MW, Nicholson Hall 355, In Person Term Based; Brad Stiffler ; 3 cr.  
54657 003 LEC, 16:00-17:15 MW, Nicholson Hall 125, In Person Term Based; Christian Uwe ; 3 cr.  
54658 004 LEC, 18:20-20:50 W, Nicholson Hall 355, In Person Term Based; Kyle Baasch ; 3 cr.  
55056 005 LEC, 11:15-12:30 TTh, Vincent Hall 213, In Person Term Based; Paulomi Sharma ; 3 cr.

55641 006 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Drishadwati Bargi ; 3 cr.

### 1501W Reading History: Theory and Practice

(Student Option; HIS,WI)  
55181 002 LEC, 11:15-12:30 TTh, Wulling Hall 220, In Person Term Based; Jordan Brown ; 3 cr.

### 1917 Documenting the Present: History and Everyday Life in Literature, Film, and Photography

(A-F only; )  
66397 001 DIS, 09:45-12:15 W, Nicholson Hall 135, In Person Term Based; Alice Lovejoy ; 3 cr.

### 3111W Close Reading

(Student Option; LITR,WI)  
66153 001 LEC, 11:15-12:30 MW, Kolthoff Hall 138, In Person Term Based; Heidara Azodanloo ; 3 cr.

### 3117 Concepts of Literary Study

(Student Option; LITR)  
66154 001 LEC, 14:30-15:45 TTh, Nicholson Hall 120, In Person Term Based; Tony C. Brown ; 3 cr.

### 3130W Colonial and Postcolonial Literatures and Theory: 1700 to the Present

(Student Option; GP,WI,LITR)  
55443 001 LEC, 14:30-15:45 MW, Nicholson Hall 315, In Person Term Based; Courtney Gildersleeve ; 3 cr.

### 3210 Cinema and Ideology

(Student Option; AH)  
56017 001 LEC, 09:45-12:45 Th, Kolthoff Hall 140, 09:45-11:00 T, Nicholson Hall 120, In Person Term Based; Meets With: 001 SCMC 3210; Keya Ganguly ; 4 cr.

### 3211 Global & Transnational Cinemas

(Student Option; GP)  
66155 001 LEC, 09:45-12:45 W, Nicholson Hall 120, 09:45-11:00 M, Nicholson Hall 120, In Person Term Based; Meets With: 001 SCMC 3211; Xiaoli Yang ; 4 cr.

### 3212W Documentary Cinema: History and Politics

(Student Option; AH,WI,CIV)  
56019 001 LEC, 14:30-17:30 M, Civil Engineering Bldg 212, In Person Term Based; Meets With: 001 SCMC 3212W; Michelle Lekas ; 4 cr.

### 3220W Screen Cultures

(Student Option; AH,WI,TS)  
55072 001 LEC, 09:45-12:15 F, Nicholson Hall 35, In Person Term Based; Meets With: 001 SCMC 3220W; Graeme Stout ; 3 cr.

### 3221 On Television

(Student Option; CIV)  
53620 001 LEC, Completely Online; Meets With: 001 SCMC 3221; Eva Hudecova ; 3 cr.

### 3231 Comedy: Media, Politics & Society

(Student Option; AH)  
54576 001 LEC, 09:45-11:00 TTh, Nicholson Hall 125, In Person Term Based; Jeremy Meckler ; 3 cr.

### 3251 Popular Music and Mass Culture

(Student Option; AH)  
55196 001 LEC, 09:45-11:00 MW, Nicholson Hall 110, In Person Term Based; Matthew Henseler ; 3 cr.

### 3322 Visions of Nature: The Natural World and Political Thought

(Student Option; ENV)  
56021 001 LEC, 17:00-18:15 TTh, Pillsbury Hall 214, In Person Term Based; Tony C. Brown ; 3 cr.

### 3323 Science and Culture

(Student Option; AH)  
66156 001 LEC, 13:00-14:15 MW, Bruininks Hall 131B, In Person Term Based; Matthew Hadley ; 3 cr.

### 3334 Monsters, Robots, Cyborgs

(Student Option; LITR)  
53864 001 LEC, 13:00-14:15 TTh, Rapson Hall 100, In Person Term Based; Matthew Hadley ; 3 cr.

### 3350W Sexuality and Culture

(Student Option; DSJ,WI)

54391 001 LEC, 13:00-14:15 MW, Burton Hall 120, In Person Term Based; Thomas David ; 3 cr.

### 3351W The Body and the Politics of Representation

(Student Option; HIS,WI)  
54660 001 LEC, 14:30-15:45 MW, Burton Hall 125, In Person Term Based; Alexandra Leong ; 3 cr.

### 3352W Queer Aesthetics & Queer Critique

(Student Option; DSJ,WI,LITR)  
55507 001 LEC, 14:30-15:45 MW, Nicholson Hall 110, In Person Term Based; Eva Hudecova ; 3 cr.

### 3405 Marx for Today

(Student Option; AH,DSJ)  
66157 001 LEC, 16:00-17:15 TTh, Kolthoff Hall 137, In Person Term Based; Cesare Casarino ; 3 cr.

### 3425W Critical Theory and Social Change

(Student Option; AH,WI,DSJ)  
56091 001 LEC, 11:15-12:30 MW, Nicholson Hall 145, In Person Term Based; Alexis Zanghi ; 3 cr.

### 3896 Internship for Academic Credit

(Student Option; )  
56035 001 FWK, In Person Term Based; Graeme Stout ; 1-4 cr.

### 3993 Directed Study

(Student Option; Prereq-instr consent, dept consent, college consent.)  
53582 001 IND, 00:00-00:00 , , In Person Term Based; Timothy Brennan ; 1-3 cr.

### 4993 Directed Study

(A-F or Audit; )  
53736 001 IND, 00:00-00:00 , , In Person Term Based; Michelle Lekas ; 1-3 cr.

### 5303 Sound Studies

(A-F or Audit; )  
67770 001 LEC, 13:00-14:15 TTh, Nicholson Hall 135, In Person Term Based; Meets With: 001 SCMC 5303; Michael Gallope ; 3 cr.

### 5993 Directed Study

(Student Option; Prereq-instr consent, dept consent, college consent.)  
52857 001 IND, 00:00-00:00 , , In Person Term Based; Michelle Lekas ; 1-3 cr.  
56683 002 IND, In Person Term Based; Robert Brown Jr ; 1-3 cr.  
69521 003 IND, In Person Term Based; Eva Hudecova ; 1-3 cr.

## Curriculum and Instruction (CI)

### 1001 Introduction to the Elementary School

(A-F or Audit; )  
51192 002 LEC, 09:45-11:00 TTh, Peik Hall 355, In Person Term Based; Scott Sundstrom ; 3 cr.  
51539 003 LEC, 13:00-14:15 TTh, Peik Hall 385, In Person Term Based; Insil Jeon ; 3 cr.

### 1032 Creating Identities: Learning In and Through the Arts

(Student Option; AH)  
52039 001 LAB, 09:05-11:00 MW, Peik Hall 40, In Person Term Based; Danielle Christensen ; 4 cr.  
52040 002 LAB, 11:15-13:10 MW, Appleby Hall 201, In Person Term Based; Amanda Brown ; 4 cr.  
52041 003 LAB, 13:25-15:20 MW, Peik Hall 40, In Person Term Based; Betsy Maloney Leaf ; 4 cr.  
52042 005 LAB, 11:15-13:10 TTh, Appleby Hall 201, In Person Term Based; Linda Buturian ; 4 cr.  
52124 004 LAB, 09:05-11:00 TTh, Appleby Hall 201, In Person Term Based; Linda Buturian ; 4 cr.

### 1121 Educational Movements Past and Present: Multicultural Perspectives

(Student Option; DSJ,HIS)  
52288 003 LEC, 12:20-14:15 TTh, Bruininks Hall 530A, In Person Term Based; Robert Poch ; 4 cr.  
68372 001 LEC, 13:25-15:30 MW, Bruininks Hall 131A, In Person Term Based; Robert Poch ; 4 cr.

### 1124 Global Stories of Education: Literature for Young Adults

(Student Option; GP,LITR)

52045 001 DIS, 09:45-11:00 MW, Peik Hall 365, In Person Term Based; Denise Huynh ; 3 cr.  
 52046 002 DIS, 13:00-14:15 MW, Peik Hall 46, In Person Term Based; Anna Jennerjohn ; 3 cr.  
 52047 004 DIS, 09:45-11:00 TTh, Peik Hall 46, In Person Term Based; Eva Barr ; 3 cr.  
 52125 003 DIS, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Kirsten Hunt ; 3 cr.  
 52137 005 DIS, 11:15-12:30 TTh, Peik Hall 46, In Person Term Based; Eva Barr ; 3 cr.  
 52185 006 DIS, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Denise Huynh ; 3 cr.  
 52226 007 DIS, 14:30-15:45 TTh, Peik Hall 375, In Person Term Based; Linda Buturay ; 3 cr.

### 1563 Physics by Inquiry (Student Option; PHYS)

52071 002 LAB, 16:40-20:15 M, Bruininks Hall 131B, In Person Term Based; Travis Churchward ; 4 cr.  
 52136 001 LAB, 14:30-16:25 MW, Bruininks Hall 131B, In Person Term Based; Marta Stoeckel ; 4 cr.

### 1806 College Algebra through Modeling (Student Option; Prereq: Three yrs high school math or grade of at least C+ in PsTL 0731 or PsTL 0732 or CI 0832 or placement test score or instr consent(MATH))

52049 002 LEC, 13:00-14:15 MW, Peik Hall 365, In Person Term Based; Bismark Akoto ; 3 cr.  
 52050 003 LEC, 09:45-11:00 TTh, Peik Hall 335, In Person Term Based; Bismark Akoto ; 3 cr.

### 1871 Computer Literacy and Problem Solving (Student Option; )

52006 001 LAB, Completely Online; Douglas Robertson ; 4 cr.  
 52007 002 LAB, Completely Online; Douglas Robertson ; 4 cr.  
 52008 003 LAB, Completely Online; Douglas Robertson ; 4 cr.  
 52009 004 LAB, Completely Online; Douglas Robertson ; 4 cr.

### 2311W Introduction to Technology and Ethics in Society (Student Option; CIV,WI)

51496 001 LEC, Completely Online; Basel Hussein ; 3 cr.  
 51514 002 LEC, Completely Online; Basel Hussein ; 3 cr.  
 52460 003 LEC, Completely Online; John Bartucz ; 3 cr.

### 2312 Sex, Drugs, and the Internet: Educational Perspectives (A-F only; )

51719 001 DIS, Completely Online; Angelica Pazurek ; 3 cr.

### 3001 Engaged Arts Learning in Elementary Classrooms (A-F or Audit; )

51701 001 LAB, 09:05-11:00 W, Appleby Hall 201, In Person Term Based; Amanda Brown ; 2 cr.  
 52122 002 LAB, 09:05-11:00 F, Appleby Hall 201, In Person Term Based; Heather Delisle ; 2 cr.  
 66166 003 LAB, 11:30-13:25 F, Peik Hall 40, In Person Term Based; Jessica Silk ; 2 cr.

### 3101 Issues in Urban Education (Student Option; )

52188 001 LEC, 12:20-14:15 WF, Peik Hall 385, In Person Term Based; Noah Jefferson ; 3 cr.

### 3150 Special Topics: Education and Society (Student Option; )

69216 001 LEC, 13:25-15:55 Th, Peik Hall 46, In Person Term Based; Jehanne Beaton ; 1-6 cr.

### 3211 Introduction to Elementary Teaching (A-F only; Prereq: [Elementary ed or early childhood ed foundations major], concurrent practicum experience)

51668 001 DIS, 11:15-13:45 T, Peik Hall 40, In Person Term Based; Cynthia Zwicky ; 3 cr.  
 51669 002 DIS, 08:30-11:00 T, Peik Hall 365, In Person Term Based; Insil Jeon ; 3 cr.  
 69560 003 DIS, 08:30-11:00 T, Peik Hall 40, In Person Term Based; Cynthia Zwicky ; 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)  
 51657 001 FWK, 07:45-11:45 WF, No Room Required, 09:00-11:30 W, Peik Hall 28, 09:00-11:30 F, Peik Hall 28, In Person Term Based; Cynthia Zwicky ; 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)

51658 001 FWK, 08:00-12:00 TTh, No Room Required, In Person Term Based; Cynthia Zwicky ; 2 cr.

### 3342 Social Media & Connected Learning (A-F only; )

52295 002 DIS, Completely Online; Jennifer Englund ; 3 cr.  
 66815 001 DIS, Completely Online; Hong Shui ; 3 cr.

### 3401W Diversity in Children's Literature (A-F or Audit; WI)

51506 001 LEC, 12:20-15:00 M, Peik Hall 325, In Person Term Based; Denise Huynh ; 3 cr.  
 51601 002 LEC, 12:20-15:00 W, Peik Hall 355, In Person Term Based; Sean Golden ; 3 cr.

### 3610 Linguistics for Teachers (A-F only; SOCS)

51738 001 LEC, 09:45-11:00 MW, Peik Hall 355, In Person Term Based; Margaret Buchanan ; 3 cr.  
 51928 003 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Margaret Buchanan ; 3 cr.  
 66695 004 LEC, 14:30-15:45 TTh, Peik Hall 48, In Person Term Based; Ashraf Mohammad ; 3 cr.

### 3611W Basics in Teaching English as a Second Language (Student Option No Audit; Prereq: Have studied another language.WI)

51888 002 LEC, 10:10-12:05 TTh, Peik Hall 48, In Person Term Based; Mabindra Regmi ; 4 cr.  
 51929 001 LEC, 14:30-16:25 MW, Peik Hall 48, Partially Online; Jonathan Morataya ; 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)

51889 001 LEC, 13:25-15:20 MW, Appleby Hall 201, In Person Term Based; Michael Rich ; 4 cr.  
 51890 002 LEC, 13:25-15:20 TTh, Peik Hall 365, In Person Term Based; Fernando Gonzalez Lesniak ; 4 cr.

### 3613 Intercultural Communication and English Language Teaching (Student Option No Audit; )

51891 001 LEC, 13:00-14:15 MW, Appleby Hall 223, Partially Online; Amanda Swearingen ; 3 cr.  
 52123 002 LEC, 11:15-12:30 TTh, Peik Hall 325, Partially Online; Ashraf Mohammad ; 3 cr.

### 3902 Exploring the Teaching Profession II (A-F only; Prereq: CI 3901, admission to DirecTrack to Teaching or department consent)

51628 001 LEC, 16:00-19:00 T, Peik Hall 375, In Person Term Based; Jehanne Beaton ; 2 cr.  
 52190 002 LEC, 13:00-15:00 M, Peik Hall 385, In Person Term Based; Jehanne Beaton ; 2 cr.

### 3993 Directed Study: Curriculum and Instruction (Student Option No Audit; Prereq instr consent. )

52296 001 IND, Partially Online; 1-6 cr.

### 4121 Culture Power and Education (A-F only; )

51974 001 DIS, 08:30-11:00 M, Twin Cities Remote, Completely Online; Blanca Caldas Chumbes ; 3 cr.  
 52233 003 DIS, 08:30-11:00 T, Peik Hall 365, In Person Term Based; Shakita Thomas ; 3 cr.

### 4122 Social Class Education and Pedagogy (A-F only; )

51975 001 DIS, 16:40-19:20 T, Peik Hall 355, In Person Term Based; Meets With: 001 CI 5122; Colleen Clements ; 3 cr.  
 52132 002 DIS, 09:25-12:05 F, Peik Hall 385, In Person Term Based; Colleen Clements ; 3 cr.

### 4311W Technology and Ethics in Society (Student Option; CIV,WI)

51652 001 LEC, Completely Online; Angelica Pazurek ; 3 cr.  
 51653 002 LEC, Completely Online; Robert Kreml ; 3 cr.  
 52191 003 LEC, Completely Online; Robert Kreml ; 3 cr.

### 4312 Sex, Drugs, and the Internet: Educational Perspectives (A-F only; )

51721 001 DIS, Completely Online; Angelica Pazurek ; 3 cr.

### 4602 English Learners and Academic Language (A-F only; )

51977 001 DIS, 09:00-12:00 Sa, Bruininks Hall 512A, Primarily Online; Karla Stone ; 1 cr.

### 5008 Theory and Practice of Arts Teaching (A-F or Audit; )

52016 001 LEC, 16:40-19:20 MWF, Nicholson Hall 125, In Person Term Based; Betsy Maloney Leaf, Jamee Yung ; 1-2 cr.

### 5018 Teaching Dance

(A-F only; Prereq: Education graduate student or instructor consent)

52344 001 DIS, Completely Online; Betsy Maloney Leaf ; 1 cr.

### 5050 Issues in Art Education (Student Option; )

66167 001 LEC, 19:30-20:30 M, Peik Hall 40, Partially Online; Andre Samples, Deborah Karp Castrenze, Melodee Strong ; 1-4 cr.

### 5097 Student Teaching in Arts Education (S-N or Audit; )

51763 001 FWK, 16:40-19:20 M, Peik Hall 48, In Person Term Based; Betsy Maloney Leaf ; 8 cr.

### 5145 Critical Pedagogy (A-F or Audit; )

52298 001 DIS, 16:40-19:20 Th, Peik Hall 48, In Person Term Based; Alissa Case ; 3 cr.

### 5186 School-Related Projects (A-F or Audit; Prereq: MEd student)

51731 001 IND, Independent/Directed Study; 1-4 cr.  
 51732 002 IND, Independent/Directed Study; 1-4 cr.  
 51863 003 IND, Independent/Directed Study; 1-6 cr.  
 51864 004 IND, Independent/Directed Study; 1-4 cr.  
 51865 005 IND, Independent/Directed Study; 1-4 cr.  
 51866 006 IND, Independent/Directed Study; 1-4 cr.  
 51867 007 IND, Independent/Directed Study; 1-4 cr.  
 51868 008 IND, Independent/Directed Study; 1-4 cr.

### 5190 Directed Individual Study in Curriculum and Instruction (Student Option; Prereq: Grad student, instr consent)

51861 001 IND, Independent/Directed Study; 1-6 cr.  
 51869 002 IND, Independent/Directed Study; 1-6 cr.  
 51870 003 IND, Independent/Directed Study; Cassie Scharber ; 1-6 cr.  
 51871 004 IND, Independent/Directed Study; 1-6 cr.  
 51872 005 IND, Independent/Directed Study; 1-6 cr.  
 51873 006 IND, Independent/Directed Study; 1-6 cr.  
 51874 007 IND, Independent/Directed Study; 1-6 cr.  
 51875 008 IND, Independent/Directed Study; 1-6 cr.  
 52436 300 IND, Completely Online; 1-6 cr.

### 5212 Elementary Education Content and Pedagogy II (A-F only; )

52197 200 DIS, Partially Online; Merry Meltz Holloway, Danielle Beck, James Schrankler ; 3 cr.

### 5215 Elementary Education Content and Pedagogy V (A-F only; )

52253 200 DIS, 09:00-16:00 Sa, Folwell Hall 30, Partially Online; Ann Jacobs, Craig Schewe, Jeff Henning-Smith ; 2 cr.  
 66168 300 DIS, 09:00-16:00 Sa, Folwell Hall 8, Partially Online; Danielle Beck, Craig Schewe, Hunter Goetzman ; 2 cr.

### 5285 Clinical Experience in Elementary School Teaching (S-N only; Prereq: M.Ed./Elementary education initial licensure students)

51733 001 FWK, Partially Online; Jana LoBello Miller ; 12 cr.  
 51772 002 FWK, Partially Online; Jana LoBello Miller ; 12 cr.  
 51773 003 FWK, Partially Online; Jana LoBello Miller ; 12 cr.  
 52059 004 FWK, Partially Online; Jana LoBello Miller ; 12 cr.

### 5286 Student Teaching Seminar: Elementary Education (A-F only; Prereq: M.Ed./Elementary education initial licensure only)

51734 001 LEC, 16:40-19:20 T, Peik Hall 325, In Person Term Based; Cynthia Zwicky ; 3 cr.  
 51735 002 LEC, 16:40-19:20 T, Lrng & Environmental Sci 139A, In Person Term Based; Jana LoBello Miller ; 3 cr.

51736 003 LEC, 12:30-15:30 W, Twin Cities Remote, Completely Online; Jeff Henning-Smith ; 3 cr.  
52060 004 LEC, 16:40-19:20 M, Twin Cities Remote, Completely Online; Charlene Cornwell ; 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)

51862 001 FWK, 16:40-19:20 W, Bruininks Hall 432, 16:40-19:20 W, Bruininks Hall 432, 08:00-16:00 F, Elliott Hall N119, Primarily Online; Meets With: 004 CI 5287; Jeff Henning-Smith ; 3 cr.  
51877 002 FWK, 16:40-17:30 W, Bruininks Hall 432, 16:40-19:20 W, Bruininks Hall 432, 08:00-16:00 F, Peik Hall 28, Primarily Online; Meets With: 003 CI 5287; Jeff Henning-Smith ; 3 cr.  
51878 003 FWK, 16:40-17:30 W, Bruininks Hall 432, 16:40-19:20 W, Bruininks Hall 432, 08:00-16:00 F, Peik Hall 28, Primarily Online; Meets With: 002 CI 5287; Jeff Henning-Smith ; 3 cr.  
52061 004 FWK, 16:40-19:20 W, Bruininks Hall 432, 16:40-19:20 W, Bruininks Hall 432, 08:00-16:00 F, Elliott Hall N119, Primarily Online; Meets With: 001 CI 5287; Jeff Henning-Smith ; 3 cr.

### 5301 Foundations of Computer Applications for Business and Education (A-F only; )

51674 001 DIS, Completely Online; Chen Chen ; 3 cr.  
51675 002 DIS, Completely Online; Chen Chen ; 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)

51060 001 LAB, 16:40-19:20 Th, Lrng & Environmental Sci R260, Partially Online; 1.5 cr.  
51061 002 LAB, 16:40-19:20 T, Lrng & Environmental Sci R260, Partially Online; 1.5 cr.  
51062 003 LAB, 16:40-19:20 W, Lrng & Environmental Sci R250, Partially Online; 1.5 cr.  
51272 004 LAB, 16:40-19:20 M, Lrng & Environmental Sci R260, Partially Online; 1.5 cr.

### 5325 Designing and Developing Online Distance Learning

(A-F or Audit; Prereq: 5351 or 5362 recommended)

52196 001 LEC, Completely Online; Jolie Kennedy ; 3 cr.

### 5392 Learning Technologies M.Ed. Capstone Project

(A-F only; Prereq: Learning Technologies M.Ed. students)

52305 001 DIS, Completely Online; Jolie Kennedy ; 3 cr.

### 5413 Foundations of Reading

(A-F or Audit; Prereq: CI 3610 and concurrent registration with CI 5414)

51671 001 LEC, 08:00-12:20 MW, Peik Hall 46, In Person Term Based; Casey Norton ; 3 cr.  
51672 002 LEC, 08:00-12:20 TTh, Peik Hall 31, In Person Term Based; Eva Boehm ; 3 cr.  
51978 003 LEC, 08:00-12:20 TTh, Peik Hall 385, In Person Term Based; Lindsay Robinson ; 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)

51670 001 FWK, In Person Term Based; Casey Norton ; 2 cr.  
52300 002 FWK, In Person Term Based; Eva Boehm ; 2 cr.  
52301 003 FWK, In Person Term Based; Lindsay Robinson ; 2 cr.

### 5419 The American Middle School (Student Option; )

52126 001 LEC, Completely Online; Kirsten Hunt ; 3 cr.

### 5442 Adolescent Literature, Youth Activism and Climate Change Literacy

(A-F or Audit; )  
66171 001 LEC, Completely Online; Marek Oziewicz ; 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])

51552 001 LEC, Completely Online; Anna Taylor, Laurie Hahn Ganser ; 1-2 cr.

### 5461 Teaching Composition in the Secondary School

(A-F or Audit; )  
51911 001 LEC, 09:05-13:05 W, Peik Hall 48, In Person Term Based; Abby Boehm-Turner ; 3 cr.

### 5481 Developments in Teaching English and Speech

(A-F or Audit; )  
66172 001 LEC, 12:25-16:25 M, Peik Hall 355, In Person Term Based; Marika Belusa ; 3 cr.

### 5496 Directed Experiences in Teaching English

(S-N or Audit; Prereq: MEd/initial licensure students in English ed only)

51597 001 FWK, In Person Term Based; Abby Boehm-Turner, Laurie Hahn Ganser, Marika Belusa ; 4-8 cr.

### 5515 Secondary Science Methods: Developing Adaptive Expertise

(A-F only; )  
66173 200 FWK, 09:00-16:00 Sa, Folwell Hall 119, Partially Online; Thomas Meagher ; 3 cr.

### 5532 Secondary Science Methods III

(A-F or Audit; Prereq: Admission to initial licensure program in science and CI 5531 Secondary Science Methods II)

51328 001 DIS, 16:00-19:20 Th, Lrng & Environmental Sci 139B, In Person Term Based; Barbara Billington ; 3 cr.

### 5536 Equity, Policy, and Assessment in Science Education

(A-F only; Prereq: Med, or grad student, or instr consent)  
66174 001 LEC, Completely Online; Stefanie Marshall ; 3 cr.

### 5552 Reflecting on Science Classroom Practices II

(A-F only; )  
51989 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)

51175 001 FWK, In Person Term Based; 4-8 cr.

### 5612 ESL Methods for Multilingual Development

(A-F only; )  
66701 001 DIS, Completely Online; 3 cr.

### 5615 Academic English for English Learners: Planning, Assessment, Instruction

(A-F only; )  
66175 200 LEC, 09:00-16:00 Sa, Folwell Hall 4, Partially Online; Caroline Maguire ; 2 cr.

### 5618 Academic Language and English Learners II

(A-F only; Prereq: Enrolled in teacher initial licensure program)

51786 001 FWK, 16:40-19:20 W, Peik Hall 48, 16:40-19:20 W, Peik Hall 48, Primarily Online; Elizabeth Stenglein ; 1 cr.  
51787 002 FWK, 16:40-19:20 W, Folwell Hall 103, 16:40-19:20 W, Folwell Hall 103, Primarily Online; Amy Young ; 1 cr.  
51788 003 FWK, 16:40-19:20 W, Peik Hall 31, 16:40-19:20 W, Peik Hall 31, Primarily Online; Amy Young ; 1 cr.  
51789 004 FWK, 16:40-19:20 W, Peik Hall 48, 16:40-19:20 W, Peik Hall 48, Primarily Online; Elizabeth Stenglein ; 1 cr.  
51790 005 FWK, 16:40-19:20 W, Peik Hall 385, 16:40-19:20 W, Peik Hall 385, Primarily Online; Karla Stone ; 1 cr.

### 5634 Content-Based Instruction in Second Language Settings

(A-F or Audit; Prereq: SLE initial licensure only)  
51114 001 LEC, 13:25-16:25 Th, Peik Hall 355, In Person Term Based; Karla Stone ; 3 cr.

### 5635 Culture and Diversity in Second Language Classrooms

(Student Option; Prereq: Initial licensure program only)

51112 001 LEC, 13:25-16:25 T, Peik Hall 355, In Person Term Based; Samuel David ; 3 cr.

### 5641 Language, Culture, and Education (A-F or Audit; )

66176 001 LEC, 16:40-19:20 M, Peik Hall 325, In Person Term Based; Anuradha Gopalakrishnan ; 3 cr.

### 5649 Language Analysis for ESL Teaching in Higher Ed

(Student Option No Audit; Prereq: 5646)  
66177 001 LEC, 16:40-19:20 W, Peik Hall 375, In Person Term Based; Darren LaScotte ; 4 cr.

### 5651 Foundations of Second Languages and Cultures Education

(A-F or Audit; )  
66288 001 LEC, 16:40-19:20 M, Peik Hall 215, In Person Term Based; Blanca Caldas Chumbes ; 3 cr.

### 5654 Practicum in Language Teaching: ESL and World Languages

(S-N only; )  
51892 001 FWK, 16:40-19:20 T, Peik Hall 315, In Person Term Based; Michael Anderson ; 1-6 cr.

### 5657 Teaching Speaking and Listening in Second Language Classrooms

(A-F or Audit; )  
51542 001 LEC, 16:40-19:20 Th, Twin Cities Remote, Completely Online; Dustin Hemsath ; 3 cr.

### 5662 Second Language Curriculum Design

(A-F or Audit; )  
51566 001 LEC, 16:40-19:20 T, Peik Hall 215, In Person Term Based; Karla Stone ; 3 cr.

### 5672 Language-Focused Instructional Practices and Strategies for Dual Language/Immersion Classrooms

(Student Option; Prereq: instr consent)  
52109 004 LEC, Completely Online; Diane Tedick ; 3 cr.

### 5676 Biliteracy Development in Dual Language/Immersion Classrooms

(Student Option; )  
52308 300 LEC, Partially Online; Stephanie Owen ; 3 cr.

### 5693 Directed Study in Second Language Education

(Student Option; Prereq: instr consent)  
51497 001 LEC, Independent/Directed Study; 1-4 cr.  
66178 002 LEC, Independent/Directed Study; 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)  
51107 002 LEC, In Person Term Based; Aracely Thomas ; 2-6 cr.  
66727 001 LEC, In Person Term Based; Aracely Thomas ; 2-6 cr.

### 5697 Practicum: ESL in the Elementary School

(Student Option; Prereq: Adviser approval)  
51499 001 LEC, In Person Term Based; Aracely Thomas ; 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)  
51146 001 FWK, In Person Term Based; Aracely Thomas ; 2-6 cr.

### 5699 Clinical Experiences in Second Languages

(A-F or Audit; Prereq: SLC initial licensure program only)  
51147 001 FWK, 13:25-16:25 W, Peik Hall 25, In Person Term Based; Jonathan Broehl, Dustin Hemsath ; 3-12 cr.

### 5702 Social Studies Instruction in the Elementary Grades

(A-F only; Prereq: Early Childhood or Elementary Education ILP)  
66179 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)**

51127 001 LEC, 17:30-20:00 Th, Peik Hall 365, In Person Term Based; Ryan Oto ; 3 cr.

**5746 Global and Multicultural Education in the Secondary Classroom (A-F only; )**

51995 001 DIS, 16:40-20:00 T, Peik Hall 165, In Person Term Based; J.B. Mayo ; 3 cr.

**5782 Clinical Experiences in Teaching Social Studies (S-N or Audit; Prereq: MEd/initial licensure student)**

51185 001 FWK, In Person Term Based; Julia Bach, Molly Siebert, J.B. Mayo, Lisa Purcell ; 1-8 cr.

**5822 Mathematics Instruction in the Elementary Grades (A-F or Audit; Prereq: Early Childhood or Elementary Education ILP)**

66180 001 LEC, In Person Term Based; 3 cr.

**5980 Clinical Experiences for K-12 Teaching (A-F only; )**

51993 200 FWK, Partially Online; Jennifer Clifden, Jennifer Knutsen ; 1-4 cr.

52309 201 FWK, Partially Online; Jennifer Clifden, Ann Jacobs, Amy Patnoe, Daniel Voss ; 1-4 cr.

69643 301 FWK, Partially Online; Stephanie Owen ; 1-4 cr.

**5982 Enacting Equity-Based Pedagogy (A-F only; )**

66181 200 FWK, Partially Online; Nuhu Sims ; 2 cr.

**5983 Equity-Based Pedagogy/Advocacy (A-F only; )**

52311 200 FWK, In Person Term Based; Nuhu Sims ; 1 cr.

**5986 Foundations of Special Education (A-F only; )**

52220 200 DIS, Partially Online; Robyn Connolly ; 1 cr.

66182 300 DIS, Partially Online; Michelle Thoenke ; 1 cr.

**5987 Child and Adolescent Development for Teaching, Learning, and Assessment (A-F only; )**

52198 200 DIS, Partially Online; James Houseworth ; 1 cr.

**5988 Clinical Experience: Improvement of Teaching (A-F only; )**

52313 200 FWK, Partially Online; Isabella Anderson Eggen ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

**5988 Clinical Experience: Improvement of Teaching (A-F only; )**

52313 200 FWK, Partially Online; Isabella Anderson Eggen ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

69508 202 FWK, Partially Online; Daniel Voss ; 2 cr.

69507 201 FWK, Partially Online; Christopher Sanville ; 2 cr.

56536 002 LEC, 18:00-20:30 T, Twin Cities Remote,

Completely Online; Sisoka Duta ; 3 cr.

69045 003 LEC, 18:00-20:30 Th, Twin Cities Remote,

Completely Online; Sisoka Duta ; 3 cr.

**4124 Intermediate Dakota II (Student Option; Prereq: 1121, 1122, 3123)**

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

55092 001 LEC, 15:35-16:25 MTWThF, Twin Cities Remote,

Completely Online; Meets With: 001 DAKO 3124; Sisoka Duta ; 3 cr.

(Student Option No Audit; )

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

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Based; Marciano Silva Dos Santos ; 1 cr.

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Based; Marciano Silva Dos Santos ; 1 cr.

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Based; Marciano Silva Dos Santos ; 1 cr.

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Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.

66642 001 LAB, 18:30-19:45 MW, Lab TBA, In Person Term

Based; Marciano Silva Dos Santos ; 1 cr.



50110 002 LEC, 16:05-16:55 W, Twin Cities Remote, Completely Online; Kara Branyon ; 1 cr.  
50297 004 LEC, 09:05-09:55 T, Twin Cities Remote, Completely Online; Christine Bartley ; 1 cr.  
50380 003 LEC, 10:40-11:30 W, Twin Cities Remote, Completely Online; Mary Shannon Bocock ; 1 cr.

### 3309 Storytelling and Design

(A-F only; )  
50465 001 LEC, 18:20-20:50 T, Mechanical Engineering 221, In Person Term Based; Emily Stover ; 3 cr.

### 3311 Travels in Typography

(A-F only; )  
50112 001 LEC, 18:15-21:00 M, McNeal Hall B22, In Person Term Based; 3 cr.

### 3322 Furniture Design, Practice

(A-F only; )  
50404 001 LEC, 09:05-14:35 F, Rapson Hall 109, In Person Term Based; Thomas Oliphant ; 4 cr.

### 3331 Street Life Urban Design Seminar

(A-F only; )  
50105 001 LEC, 13:25-16:10 F, Mechanical Engineering 25, In Person Term Based; Satoko Muratake ; 3 cr.

### 3351 Phenomenon of Everyday Design

(A-F only; )  
50342 001 LEC, 18:20-20:50 W, Twin Cities Remote, Completely Online; Patricia Hemmis ; 3 cr.

### 3406 Iceland: Nature, Culture, Arts & Design

(A-F only; )  
68303 001 LEC, 15:00-17:00 W, Rapson Hall 259, In Person Term Based; Virajita Singh ; 3 cr.

### 4160 Topics in Design

(A-F only; )  
68988 001 LEC, 15:00-16:55 , ONLINE, 15:00-16:55 T, Twin Cities Remote, Completely Online; 1-4 cr.

### 4193 Directed Study in Design

(A-F only; Prereq: dept consent)  
50099 001 IND, Independent/Directed Study; 1-6 cr.

### 5160 Topics in Design

(A-F only; )  
69039 001 LEC, In Person Term Based; Eugene Park, Jessica Rossi-Mastracci ; 1-4 cr.

### 5170 Topics in Design

(A-F or Audit; )  
68790 001 LEC, 15:00-16:55 , ONLINE, 15:00-16:55 T, Twin Cities Remote, Completely Online; 3 cr.

### 5185 Human Factors in Design

(A-F or Audit; Prereq: Grad student or sr or instr consent)  
50298 001 LEC, 10:15-11:30 MW, McNeal Hall 250, In Person Term Based; 3 cr.

### 5193 Directed Study in Design

(A-F only; Prereq: dept consent)  
50100 001 IND, Independent/Directed Study; 1-6 cr.

### 5901 Principles of Wearable Technology

(A-F only; )  
65790 001 LEC, 13:55-15:50 M, McNeal Hall 310, In Person Term Based; 2 cr.

### 5902 Wearable Technology Laboratory Practicum

(A-F only; )  
65771 001 LAB, 13:55-15:50 W, McNeal Hall 310, In Person Term Based; 2 cr.

## Dutch (DTCH)

### 1002 Beginning Dutch

(Student Option; Prereq: 1001)  
53588 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 118, In Person Term Based; Meets With: 001 DTCH 4002; Jenneke Oosterhoff ; 5 cr.

### 3610 Dutch Literature in Translation

(Student Option; )  
66388 001 DIS, 13:00-14:15 MW, Folwell Hall 112, In Person Term Based; Jenneke Oosterhoff ; 3 cr.

### 3993 Directed Studies

(Student Option; Prereq-instr consent, dept consent, college consent.)  
53018 001 IND, In Person Term Based; 1-5 cr.

### 4002 Beginning Dutch for Graduate

Research  
(Student Option; )  
53589 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 118, In Person Term Based; Meets With: 001 DTCH 1002; Jenneke Oosterhoff ; 5 cr.

### 5993 Directed Studies

(Student Option; Prereq-instr consent, dept consent, college consent.)  
53019 001 IND, In Person Term Based; Jenneke Oosterhoff ; 1-4 cr.  
56651 002 IND, In Person Term Based; Jenneke Oosterhoff ; 1-4 cr.

## Early Modern Studies (EMS)

### 5500 Topics in Early Modern Studies

(Student Option; Prereq: Grad student)  
66631 001 LEC, 09:30-12:00 F, Pillsbury Hall 212, In Person Term Based; Meets With: 001 ENGL 5121; Rachel Trocchio ; 3 cr.

## Earth Sciences (ESCI)

### 1001 Earth and Its Environments

(Student Option; ENV,PHYS)  
59674 002 LEC, 09:45-11:00 TTh, Nicholson Hall 155, In Person Term Based; Meets With: 102 ESCI 1101; Bruce Moskowitiz ; 4 cr.  
59675 003 LEC, Completely Online; Meets With: 103 ESCI 1101; Kent Kirkby ; 4 cr.  
59676 101 LAB, 09:05-10:45 M, Ford Hall 185, In Person Term Based; 4 cr.  
59677 102 LAB, 12:20-14:00 M, Ford Hall 185, In Person Term Based; 4 cr.  
59678 103 LAB, 14:30-16:10 M, Ford Hall 185, In Person Term Based; 4 cr.  
59680 105 LAB, 11:15-12:55 T, Ford Hall 185, In Person Term Based; 4 cr.  
59681 106 LAB, 13:25-15:05 T, Ford Hall 185, In Person Term Based; 4 cr.  
59683 108 LAB, 09:05-10:45 W, Ford Hall 185, In Person Term Based; 4 cr.  
59684 109 LAB, 12:20-14:00 W, Ford Hall 185, In Person Term Based; 4 cr.  
59685 110 LAB, 14:30-16:10 W, Ford Hall 185, In Person Term Based; 4 cr.  
59686 111 LAB, 11:15-12:55 Th, Ford Hall 185, In Person Term Based; 4 cr.  
59851 112 LAB, 13:25-15:05 Th, Ford Hall 185, In Person Term Based; 4 cr.  
68558 114 LAB, 12:20-14:00 M, Twin Cities Remote, Completely Online; 4 cr.  
68559 115 LAB, 14:30-16:10 M, Twin Cities Remote, Completely Online; 4 cr.  
68560 116 LAB, 11:15-12:55 T, Twin Cities Remote, Completely Online; 4 cr.  
68561 117 LAB, 13:25-15:05 T, Twin Cities Remote, Completely Online; 4 cr.

### 1003 Dinosaurs and Our World

(Student Option; BIOL,ENV)  
60645 001 LEC, 11:15-12:05 MWF, Nicholson Hall 155, In Person Term Based; Kent Kirkby ; 4 cr.  
61387 101 LAB, 09:05-11:00 M, Tate Hall 160, In Person Term Based; 4 cr.  
61388 102 LAB, 13:25-15:20 M, Tate Hall 160, In Person Term Based; 4 cr.  
61389 103 LAB, 15:35-17:30 M, Tate Hall 160, In Person Term Based; 4 cr.  
61390 104 LAB, 09:05-11:00 T, Tate Hall 160, In Person Term Based; 4 cr.  
61391 105 LAB, 11:15-13:10 T, Tate Hall 160, In Person Term Based; 4 cr.  
61392 106 LAB, 13:25-15:20 T, Tate Hall 160, In Person Term Based; 4 cr.  
61393 107 LAB, 15:35-17:30 T, Tate Hall 160, In Person Term Based; 4 cr.  
61394 108 LAB, 09:05-11:00 W, Tate Hall 160, In Person Term Based; 4 cr.  
61395 109 LAB, 13:25-15:20 W, Tate Hall 160, In Person Term Based; 4 cr.  
61676 110 LAB, 15:35-17:30 W, Tate Hall 160, In Person Term Based; 4 cr.

61677 111 LAB, 09:05-11:00 Th, Tate Hall 160, In Person Term Based; 4 cr.  
61678 112 LAB, 11:15-13:10 Th, Tate Hall 160, In Person Term Based; 4 cr.  
66681 113 LAB, 13:25-15:20 Th, Tate Hall 160, In Person Term Based; 4 cr.  
66704 002 LEC, 12:20-13:10 MWF, Nicholson Hall 155, In Person Term Based; Peter Makovicky ; 4 cr.  
69520 114 LAB, 09:05-11:00 F, Tate Hall 160, In Person Term Based; 4 cr.

### 1004 Music of the Earth

(Student Option; MATH)  
65938 001 LEC, 11:15-12:05 MW, Tate Hall 105, In Person Term Based; Maximiliano Bezada ; 3 cr.  
65939 101 DIS, 09:05-10:45 M, Ford Hall B85, In Person Term Based; 3 cr.  
65940 102 DIS, 13:25-15:05 M, Ford Hall B85, In Person Term Based; 3 cr.  
65941 103 DIS, 11:15-12:55 T, Ford Hall B85, In Person Term Based; 3 cr.  
65942 104 DIS, 13:25-15:05 T, Ford Hall B85, In Person Term Based; 3 cr.

### 1005 Geology and Cinema

(Student Option; ENV,PHYS)  
59805 001 LEC, 14:30-15:45 TTh, Willey Hall 175, In Person Term Based; Meets With: 001 ESCI 1105; Justin Revenaugh ; 4 cr.  
59823 101 LAB, 09:05-11:00 M, Tate Hall 185, In Person Term Based; 4 cr.  
59824 102 LAB, 11:15-13:10 M, Tate Hall 185, In Person Term Based; 4 cr.  
59825 103 LAB, 13:25-15:20 M, Tate Hall 185, In Person Term Based; 4 cr.  
59826 104 LAB, 15:35-17:30 M, Tate Hall 185, In Person Term Based; 4 cr.  
59827 105 LAB, 10:10-12:05 T, Tate Hall 185, In Person Term Based; 4 cr.  
59828 106 LAB, 12:20-14:15 T, Tate Hall 185, In Person Term Based; 4 cr.  
59829 107 LAB, 16:10-18:05 T, Tate Hall 185, In Person Term Based; 4 cr.  
59830 108 LAB, 09:05-11:00 W, Tate Hall 185, In Person Term Based; 4 cr.  
60234 109 LAB, 11:15-13:10 W, Tate Hall 185, In Person Term Based; 4 cr.  
60235 110 LAB, 13:25-15:20 W, Tate Hall 185, In Person Term Based; 4 cr.  
60236 111 LAB, 15:35-17:30 W, Tate Hall 185, In Person Term Based; 4 cr.  
60237 112 LAB, 10:10-12:05 Th, Tate Hall 185, In Person Term Based; 4 cr.  
61090 113 LAB, 12:20-14:15 Th, Tate Hall 185, In Person Term Based; 4 cr.  
61232 114 LAB, 17:45-19:40 W, Tate Hall 185, In Person Term Based; 4 cr.  
61233 115 LAB, 17:45-19:40 M, Tate Hall 185, In Person Term Based; 4 cr.

### 1012 Natural Disasters

(Student Option; TS)  
60795 001 LEC, 10:10-11:00 MWF, Tate Hall 101, In Person Term Based; David Birlenbach ; 3 cr.

### 1101 Introduction to Geology (lecture only)

(Student Option; ENV)  
60403 102 LEC, 09:45-11:00 TTh, Nicholson Hall 155, In Person Term Based; Meets With: 002 ESCI 1001; Bruce Moskowitiz ; 3 cr.  
60404 103 LEC, Completely Online; Meets With: 003 ESCI 1001; Kent Kirkby ; 3 cr.

### 1105 Geology and Cinema (lecture only)

(Student Option; ENV)  
60405 001 LEC, 14:30-15:45 TTh, Willey Hall 175, In Person Term Based; Meets With: 001 ESCI 1005; Justin Revenaugh ; 3 cr.

### 2001 Intro to Problems in Earth System Science -with lab

(A-F or Audit; ENV,PHYS)  
65944 001 LEC, 09:45-11:00 TTh, Tate Hall 110, In Person Term Based; Meets With: 001 ESCI 2101; Ikuko Wada, Xinyuan Zheng ; 4 cr.  
69587 101 LAB, 11:15-12:55 T, Tate Hall 170, In Person Term Based; 4 cr.

### 2101 Intro to Problems in Earth System Science - lecture only

(A-F or Audit; ENV)  
69590 001 LEC, 09:45-11:00 TTh, Tate Hall 110, In Person Term Based; Meets With: 001 ESCI 2001; Ikuko Wada, Xinyuan Zheng ; 3 cr.

**2202 Earth History**

(A-F only; Prereq: [2201, 2301] or instr consent)

- 60748 001 LEC, 11:15-12:30 TTh, Tate Hall 120, In Person Term Based; David Fox ; 4 cr.  
60785 101 LAB, 09:05-10:45 F, Tate Hall 170, In Person Term Based; 4 cr.  
60786 102 LAB, 11:15-12:55 F, Tate Hall 170, In Person Term Based; 4 cr.

**2203 Earth Surface Dynamics**

(A-F or Audit; )

- 60788 001 LEC, 09:45-11:00 TTh, Tate Hall 120, In Person Term Based; Jake Bailey, Joel Barker, Vera Pospelova ; 4 cr.  
65946 103 DIS, 13:25-15:05 M, Tate Hall 170, In Person Term Based; 4 cr.  
65947 104 DIS, 15:35-17:15 M, Tate Hall 170, In Person Term Based; 4 cr.

**2302 Petrology**

(Student Option; Prereq: 2301 or instr consent)

- 59300 101 LAB, 09:00-10:45 F, Tate Hall 180, In Person Term Based; 3 cr.  
59301 102 LAB, 12:20-14:00 F, Tate Hall 180, In Person Term Based; 3 cr.  
61490 001 LEC, 13:25-14:15 MW, Tate Hall 120, In Person Term Based; Donna Whitney, Marc Hirschmann ; 3 cr.

**3006 Rocks and Stars: Introduction to Planetary Science**

(Student Option; Prereq: An interest in the solar system and planets.)

- 61794 001 LEC, 14:30-15:45 TTh, Tate Hall 110, In Person Term Based; Marc Hirschmann ; 3 cr.

**3093 Directed Studies in Earth & Environmental Sciences: Junior**

(Student Option; Prereq: instr consent)

- 59443 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**3891 Field Methods**

(A-F only; )

- 60707 001 LEC, 16:00-18:00 T, Tate Hall 110, In Person Term Based; Annia Fayon ; 2 cr.

**4010 Undergraduate Seminar: Current Topics in Earth & Environmental Sciences**

(Student Option; Prereq: instr consent)

- 66916 001 LEC, In Person Term Based; Joel Barker ; 1-4 cr.

**4093 Directed Studies in Earth & Environmental Sciences: Senior**

(Student Option; Prereq: instr consent)

- 59444 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4094 Senior Thesis**

(Student Option; Prereq: Sr, Geo or ESci major, instr consent)

- 59445 001 IND, 00:00-00:00 , , In Person Term Based; 2 cr.

**4401 Aqueous Environmental Geochemistry**

(Student Option; )

- 61468 001 LEC, 11:15-12:30 TTh, Tate Hall B65, In Person Term Based; Meets With: 001 ESCI 8401; William Seyfried ; 3 cr.

**4502 Tectonic Styles**

(Student Option; Prereq: 4501 or instr consent)

- 68471 001 LEC, 09:05-09:55 MWF, Tate Hall 120, In Person Term Based; Meets With: 001 ESCI 8502; Christian Teyssier ; 3 cr.

**4602 Sedimentology and Stratigraphy**

(Student Option; Prereq: [2203, 2301] or instr consent)

- 59302 001 LEC, 11:15-12:05 MW, Tate Hall 120, In Person Term Based; Chris Paola ; 3 cr.  
59303 101 LAB, 09:05-10:45 T, Tate Hall 180, In Person Term Based; 3 cr.  
59304 102 LAB, 11:15-12:55 T, Tate Hall 180, In Person Term Based; 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)

- 60665 001 LEC, 13:00-14:15 TTh, Tate Hall 120, In Person Term Based; Peter Kang, Anthony Runkel ; 4 cr.

60992 102 LAB, 11:15-12:55 W, Tate Hall 170, In Person

Term Based; 4 cr.

61091 103 LAB, 13:25-15:05 W, Tate Hall 170, In Person

Term Based; 4 cr.

**4801 Geomicrobiology**

(Student Option; Prereq: One semester college level biology)

- 60823 001 LEC, 14:30-15:45 TTh, Ford Hall B10, In Person Term Based; Meets With: 001 ESCI 8801; Jake Bailey ; 3 cr.

**5203 Mineral and Rock Physics**

(Student Option; Prereq: 2201, Phys 1302)

- 61264 001 LEC, 10:10-11:00 MWF, Tate Hall 120, In Person Term Based; Lars Hansen ; 3 cr.

**5705 Limnogeology and Paleoenvironment**

(Student Option; Prereq: instr consent)

- 61619 001 LEC, 09:45-11:00 TTh, Tate Hall B55, In Person Term Based; Emi Ito ; 3 cr.

**5805 Standards and Practices for Professional Geoscientists**

(Student Option; )

- 61471 001 LEC, 10:10-11:00 MW, Tate Hall 401-20, In Person Term Based; Joshua Feinberg ; 3 cr.

**5980 Seminar: Current Topics in Earth Sciences**

(S-N or Audit; )

- 68991 001 LEC, 14:30-16:10 M, Twin Cities Remote, Completely Online; Larry Edwards ; 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)

- 53621 001 DIS, 11:15-12:05 MWF, Blegen Hall 250, In Person Term Based; Meets With: 001 HIST 3462001 HIST 5462; Ann Waltner ; 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)

- 50658 001 LEC, 13:00-14:15 TTh, Tate Hall 110, In Person Term Based; Elizabeth Borer ; 3 cr.

**3002 Sex, Evolution, and Behavior: Examining Human Evolutionary Biology**

(A-F or Audit; )

- 50744 001 LEC, 09:45-11:00 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 ANTH 3002; Michael Wilson ; 4 cr.  
50745 002 LAB, 10:10-11:00 M, Blegen Hall 318, In Person Term Based; Meets With: 002 ANTH 3002; 4 cr.  
50746 003 LAB, 11:15-12:05 T, Blegen Hall 318, In Person Term Based; Meets With: 003 ANTH 3002; 4 cr.  
50747 004 LAB, 14:30-15:20 T, Blegen Hall 318, In Person Term Based; Meets With: 004 ANTH 3002; 4 cr.  
50748 005 LAB, 11:15-12:05 Th, Blegen Hall 318, In Person Term Based; Meets With: 005 ANTH 3002; 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)

- 50822 001 LEC, 08:45-10:00 TTh, Borlaug Hall 335, In Person Term Based; Allison Shaw, Eric Seabloom ; 4 cr.  
50823 003 LAB, 16:30-19:30 T, Biological Sciences Ctr 6, In Person Term Based; 4 cr.  
50824 002 LAB, 12:50-15:50 T, Biological Sciences Ctr 6, In Person Term Based; 4 cr.  
50825 004 LAB, 08:30-11:30 W, Biological Sciences Ctr 6, In Person Term Based; 4 cr.  
50826 005 LAB, 12:50-15:50 W, Biological Sciences Ctr 6, In Person Term Based; 4 cr.  
50827 008 LAB, 16:30-19:30 Th, Biological Sciences Ctr 6, In Person Term Based; 4 cr.  
50828 007 LAB, 12:50-15:50 Th, Biological Sciences Ctr 6, In Person Term Based; 4 cr.

50917 006 LAB, 17:10-20:10 W, Biological Sciences Ctr 6, In

Person Term Based; 4 cr.

50918 009 LAB, 09:35-12:35 F, Biological Sciences Ctr 6, In

Person Term Based; 4 cr.

**3409 Evolution**

(Student Option; Prereq: One semester college biology)

- 50817 001 LEC, 10:40-11:30 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 5409; William Harcombe, Ruth Shaw ; 3 cr.  
50818 002 LAB, 09:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 5409; 3 cr.  
50819 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 003 EEB 5409; 3 cr.  
50820 004 LAB, 11:45-14:45 W, Biological Sciences Ctr 245, In Person Term Based; Meets With: 004 EEB 5409; 3 cr.  
50821 007 LAB, 08:30-11:30 F, Biological Sciences Ctr 245, In Person Term Based; Meets With: 007 EEB 5409; 3 cr.  
50919 005 LAB, 09:35-12:35 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 5409; 3 cr.  
50920 006 LAB, 13:55-16:55 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 006 EEB 5409; 3 cr.

**3412W Introduction to Animal Behavior, Writing Intensive**

(A-F only; Prereq: Undergrad biology course Credit granted for only one of the following: EEB 3411, EEB 3412W, EEB 3811W, EEB 5412W)

- 50829 001 LEC, 10:15-11:30 MW, Green Hall 110, In Person Term Based; Emilie Snell-Rood ; 4 cr.  
50830 002 LAB, 12:50-15:50 W, Biological Sciences Ctr 151, In Person Term Based; 4 cr.  
50831 003 LAB, 08:30-11:30 Th, Biological Sciences Ctr 151, In Person Term Based; 4 cr.  
50832 004 LAB, 12:50-15:50 Th, Biological Sciences Ctr 151, In Person Term Based; 4 cr.  
50833 005 LAB, 16:30-19:30 Th, Biological Sciences Ctr 151, In Person Term Based; 4 cr.  
50834 006 LAB, 09:35-12:35 F, Biological Sciences Ctr 151, In Person Term Based; 4 cr.

**3603 Science, Protection, and Management of Aquatic Environments**

(Student Option; Prereq: One semester college biology)

- 50977 001 LEC, 11:45-13:00 MW, Hodson Hall 490, In Person Term Based; Jacques Finlay ; 3 cr.

**3701 EEB Seminar**

(S-N only; )

- 50996 001 LEC, 15:30-17:00 W, Twin Cities Remote, Completely Online; R. Denison ; 1 cr.

**3851W Health and Biodiversity**

(A-F only; Prereq: At least one year of college Biology or equivalent/ENV,WI)

- 67821 001 LEC, 13:55-15:50 T, Ecology Building 170, In Person Term Based; Meets With: 001 EEB 5851; Meggan Craft ; 3 cr.

**4068 Plant Physiological Ecology**

(Student Option No Audit; )

- 50940 001 LEC, 10:15-11:30 TTh, Ruttan Hall 143, In Person Term Based; Meets With: 001 EEB 5068; Jeannine Cavender-Bares ; 3 cr.  
50941 002 LAB, 09:20-10:10 Th, Plant Growth Facility 140B, In Person Term Based; Meets With: 002 EEB 5068; Jeannine Cavender-Bares ; 3 cr.  
50942 003 LAB, 11:30-12:20 Th, Plant Growth Facility 140B, In Person Term Based; Meets With: 003 EEB 5068; Jeannine Cavender-Bares ; 3 cr.

**4134 Introduction to Ornithology**

(Student Option; Prereq: Biol 1001 or Biol 2012)

- 50530 001 LEC, 11:45-12:35 TTh, Hodson Hall 495, In Person Term Based; Keith Barker ; 4 cr.  
50531 002 LAB, 08:30-11:30 T, Ecology Building 150, In Person Term Based; 4 cr.  
50532 003 LAB, 08:30-11:30 Th, Ecology Building 150, In Person Term Based; 4 cr.

**4611 Biogeochemical Processes**

(Student Option; Prereq: [BIOL 1009 or 2003] AND [CHEM 1081 or 1061 or 1071H] or instr consent)

- 50691 001 LEC, 10:15-11:30 TTh, Borlaug Hall 365, In Person Term Based; Meets With: 001 EEB 5611; James Cotner ; 3 cr.

**4793W Directed Studies: Writing Intensive**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.WI)

50640 001 IND, 10:00-10:50 F, , In Person Term Based; 1-7 cr.  
69591 002 IND, In Person Term Based; 1-7 cr.

#### 4794W Directed Research: Writing Intensive

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4994W counts towards CBS major requirements.WI)  
50641 001 IND, 10:00-10:50 F, , In Person Term Based; 1-7 cr.  
51005 002 IND, In Person Term Based; 1-7 cr.

#### 4993 Directed Studies

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)  
50611 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

#### 4994 Directed Research

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)  
50612 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

#### 5068 Plant Physiological Ecology

(Student Option No Audit; Prereq: BIOL 2022 or BIOL 3002 or BIOL 3407 or BIOL 3408W or instr consent)  
50943 001 LEC, 10:15-11:30 TTh, Rutan Hall 143, In Person Term Based; Meets With: 001 EEB 4068; Jeannine Cavender-Bares ; 3 cr.  
50944 002 LAB, 09:20-10:10 Th, Plant Growth Facility 140B, In Person Term Based; Meets With: 002 EEB 4068; Jeannine Cavender-Bares ; 3 cr.  
50945 003 LAB, 11:30-12:20 Th, Plant Growth Facility 140B, In Person Term Based; Meets With: 003 EEB 4068; Jeannine Cavender-Bares ; 3 cr.

#### 5409 Evolution

(Student Option; Prereq: One semester college biology)  
50835 001 LEC, 10:40-11:30 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 3409; William Harcombe, Ruth Shaw ; 3 cr.  
50836 002 LAB, 09:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 3409; 3 cr.  
50921 005 LAB, 09:35-12:35 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 3409; 3 cr.

#### 5611 Biogeochemical Processes

(Student Option; Prereq: [BIOC 2331, CHEM 2301] or instr consent)  
50998 001 LEC, 10:15-11:30 TTh, Borlaug Hall 365, In Person Term Based; Meets With: 001 EEB 4611; James Cotner ; 3 cr.

#### 5851 Health and Biodiversity

(A-F only; Prereq: At least one year of college Biology or equivalentENV)  
69229 001 LEC, 13:55-15:50 T, Ecology Building 170, In Person Term Based; Meets With: 001 EEB 3851W; Meggan Craft ; 3 cr.

## Economics (ECON)

#### 1101 Principles of Microeconomics

(Student Option; Prereq: knowledge of plane geometry and advanced algebraGP,SOCS)  
52951 001 LEC, 10:10-11:00 MWF, Willey Hall 125, In Person Term Based; Fahima Aziz ; 4 cr.  
52953 003 DIS, 11:15-12:05 W, Blegen Hall 230, In Person Term Based; 4 cr.  
52954 004 DIS, 12:20-13:10 W, Blegen Hall 335, In Person Term Based; 4 cr.  
52955 005 DIS, 13:25-14:15 W, Blegen Hall 205, In Person Term Based; 4 cr.  
52958 010 DIS, 11:15-12:05 W, Blegen Hall 220, In Person Term Based; 4 cr.  
52959 011 DIS, 11:15-12:05 W, Blegen Hall 145, In Person Term Based; 4 cr.  
52960 018 DIS, 12:20-13:10 W, Blegen Hall 225, In Person Term Based; 4 cr.  
52961 021 DIS, 11:15-12:05 W, Blegen Hall 140, In Person Term Based; 4 cr.  
53398 037 DIS, 17:30-18:20 Th, Blegen Hall 330, In Person Term Based; 4 cr.  
53555 033 LEC, 16:00-17:15 MW, Hanson Hall 1-106, In Person Term Based; 4 cr.  
53556 034 DIS, 17:30-18:20 W, Blegen Hall 335, In Person Term Based; 4 cr.

53824 046 LEC, 16:00-17:15 TTh, Hanson Hall 1-108, In Person Term Based; 4 cr.  
53825 047 DIS, 17:30-18:20 Th, Blegen Hall 225, In Person Term Based; 4 cr.  
54301 050 DIS, 17:30-18:20 W, Blegen Hall 330, In Person Term Based; 4 cr.  
54302 051 DIS, 17:30-18:20 Th, Blegen Hall 205, In Person Term Based; 4 cr.  
54703 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Jacob Strauss ; 4 cr.  
66761 002 DIS, 13:25-14:15 W, Blegen Hall 225, In Person Term Based; ; 4 cr.  
68398 006 DIS, 13:25-14:15 W, Carlson School of Mgmt L-122, In Person Term Based; 4 cr.

#### 1102 Principles of Macroeconomics

(Student Option; Prereq: [1101 or equiv], knowledge of plane geometry and advanced algebra)  
52964 001 LEC, 09:45-11:00 TTh, Willey Hall 175, In Person Term Based; Christopher Phelan ; 4 cr.  
52965 002 DIS, 11:15-12:05 F, Blegen Hall 335, In Person Term Based; 4 cr.  
52966 003 DIS, 11:15-12:05 F, Blegen Hall 140, In Person Term Based; 4 cr.  
52967 004 DIS, 11:15-12:05 F, Blegen Hall 330, In Person Term Based; 4 cr.  
52968 005 DIS, 10:10-11:00 F, Blegen Hall 330, In Person Term Based; 4 cr.  
52969 006 DIS, 10:10-11:00 F, Blegen Hall 240, In Person Term Based; 4 cr.  
52970 007 DIS, 10:10-11:00 F, Blegen Hall 125, In Person Term Based; 4 cr.  
52971 008 DIS, 12:20-13:10 F, Blegen Hall 335, In Person Term Based; 4 cr.  
52973 015 DIS, 08:00-08:50 F, Blegen Hall 125, In Person Term Based; 4 cr.  
52974 016 DIS, 08:00-08:50 F, Blegen Hall 140, In Person Term Based; 4 cr.  
52975 017 DIS, 12:20-13:10 F, Blegen Hall 125, In Person Term Based; 4 cr.  
52976 018 DIS, 09:05-09:55 F, Blegen Hall 125, In Person Term Based; 4 cr.  
52977 019 DIS, 12:20-13:10 F, Blegen Hall 330, In Person Term Based; 4 cr.  
52978 020 DIS, 13:25-14:15 F, Blegen Hall 330, In Person Term Based; 4 cr.  
52979 021 DIS, 13:25-14:15 F, Blegen Hall 125, In Person Term Based; 4 cr.  
52980 022 DIS, 13:25-14:15 F, Blegen Hall 140, In Person Term Based; 4 cr.  
53412 029 LEC, 16:00-17:15 MW, Blegen Hall 250, In Person Term Based; 4 cr.  
53413 030 DIS, 17:30-18:20 W, Blegen Hall 140, In Person Term Based; 4 cr.  
53414 032 DIS, 17:30-18:20 M, Blegen Hall 140, In Person Term Based; 4 cr.  
53477 023 DIS, 09:05-09:55 F, Blegen Hall 140, In Person Term Based; 4 cr.  
53558 033 LEC, 16:00-17:15 MW, West Bank Skyway 20, In Person Term Based; 4 cr.  
53559 034 DIS, 17:30-18:20 W, Blegen Hall 240, In Person Term Based; 4 cr.  
54704 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Omer Ceyhan ; 4 cr.  
55604 038 DIS, 17:30-18:20 M, Blegen Hall 125, In Person Term Based; 4 cr.  
55605 037 DIS, 17:30-18:20 W, Blegen Hall 125, In Person Term Based; 4 cr.

#### 3101 Intermediate Microeconomics

(A-F only; Prereq: [[1101, 1102] or equiv], [MATH 1271 or equiv])  
52666 001 LEC, 08:15-09:30 TTh, Anderson Hall 250, In Person Term Based; 4 cr.  
52667 002 DIS, 09:05-09:55 M, Blegen Hall 240, In Person Term Based; 4 cr.  
54133 004 DIS, 10:10-11:00 M, Blegen Hall 230, In Person Term Based; 4 cr.  
54349 006 DIS, 11:15-12:05 M, Blegen Hall 125, In Person Term Based; 4 cr.

#### 3102 Intermediate Macroeconomics

(A-F only; Prereq: 3101 or equiv)  
66734 001 LEC, 09:45-11:00 TTh, Anderson Hall 330, In Person Term Based; 4 cr.  
66735 002 DIS, 09:05-09:55 F, Hanson Hall 1-107, In Person Term Based; 4 cr.  
66736 004 DIS, 11:15-12:05 F, Blegen Hall 125, In Person Term Based; 4 cr.  
66737 003 DIS, 10:10-11:00 F, Hanson Hall 1-107, In Person Term Based; 4 cr.

#### 3896 Internship for Academic Credit

(Student Option; )  
56289 001 FWK, 00:00-00:00 , ONLINE, Completely Online; 1-4 cr.

#### 3951 Economics Capstone

(A-F only; Prereq: 3101, 3102, [STAT 3011 or equiv], [STAT 3022 or equiv], two [3xxx or 4xxx] ECON courses, at least one 4xxx ECON writing intensive course, freshman writing requirement satisfied)  
52672 001 IND, 09:45-11:00 MW, Twin Cities Remote, Completely Online; 2 cr.

#### 3991 Independent Study

(A-F or Audit; Prereq: 3101, 3102, dept consent)  
52673 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

#### 3993 Directed Studies

(Student Option; Prereq: 3101, 3102, 4261, two semesters of statistics)  
52674 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

#### 4118 Advanced Mathematical Economics

(A-F only; Prereq: ECON 3101, 3102, MATH 1271, MATH 1272, MATH 2243 or equivalent courses; and at least two 4xxx level economics electives.)  
56396 001 LEC, 16:00-18:30 Th, Blegen Hall 260, In Person Term Based; Professor B Allen ; 4 cr.

#### 4163 Microeconomic Analysis III

(A-F only; Prerequisites. The requirements are basic probability and real analysis concepts; these will be reviewed in the first lectures. prereq: 3101, 3102, 4162, MATH 2243, MATH 2263, dept consent)  
69510 001 LEC, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Aldo Rustichini ; 2 cr.  
69511 002 DIS, 16:30-17:45 W, Twin Cities Remote, Completely Online; 2 cr.

#### 4164 Microeconomic Analysis IV

(A-F only; Prereq: 3101, 3102, 4163, MATH 2243, MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept consent)  
69667 001 DIS, Completely Online; 2 cr.

#### 4211 Principles of Econometrics

(Student Option; Prereq: [3101 or equiv], [Stat 3011 or equivalent, Stat 3022 or equivalent] or higher level Stat courses)  
55547 001 LEC, 09:45-11:00 TTh, Blegen Hall 150, In Person Term Based; 4 cr.  
55548 002 DIS, 11:15-12:30 T, Hanson Hall 1-108, In Person Term Based; 4 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)  
53830 001 LEC, 08:15-09:15 TTh, Anderson Hall 230, In Person Term Based; 4 cr.  
53831 002 DIS, 12:20-13:10 Th, Blegen Hall 220, In Person Term Based; 4 cr.  
54563 004 DIS, 13:25-14:15 Th, Blegen Hall 220, In Person Term Based; 4 cr.

#### 4311 Economy of Latin America

(Student Option; Prereq: [1101, 1102] or equiv)  
52691 001 LEC, 17:00-19:30 W, Blegen Hall 255, In Person Term Based; 3 cr.

#### 4317 The Chinese Economy

(A-F only; )  
55248 001 LEC, 17:00-19:30 M, Blegen Hall 255, In Person Term Based; 3 cr.

#### 4331W Economic Development

(Student Option; Prereq: [[3101, 3102] or equiv], completion of freshman writing practiceWI)  
54632 002 LEC, 16:00-17:15 MW, Hanson Hall 1-109, In Person Term Based; 3 cr.

#### 4341 Economics of Poverty and Income Inequality

(A-F only; )  
68360 001 LEC, 14:30-15:45 MW, Carlson School of Mgmt L-122, In Person Term Based; Fahima Aziz ; 3 cr.

#### 4431W International Trade

(Student Option; Prereq: [3101, 3102] or equiv, freshman writing practiceGP,WI)  
53343 001 LEC, 11:15-13:45 TW, Twin Cities Remote, 11:15-13:45 TW, Twin Cities Remote, 11:15-13:45 TW, Twin Cities Remote, 11:15-13:45 TW, Twin Cities Remote, 11:15-13:45 TW, Twin Cities Remote, 11:15-13:45 T, Twin Cities Remote, Completely Online; Simran Sahi ; 3 cr.

**4432W International Finance**

(A-F only; Prereq: 3101, 3102 or equiv; WI)  
52675 002 LEC, 08:15-09:30 MW, Blegen Hall 317, In Person Term Based; 3 cr.

**4438W Advanced International Trade**

(A-F only; Prereq: [3101, 3102] or equiv, Math 1271, completion of freshman writing practice, [Math 1272 or equiv]GP,WI)  
55249 001 LEC, 16:00-17:15 MW, Blegen Hall 145, In Person Term Based; Erzo Luttmer ; 4 cr.

**4531 Labor Economics**

(Student Option; Prereq: 3101, 3102 or equiv)  
54348 001 LEC, 08:15-09:30 MW, Blegen Hall 255, In Person Term Based; 3 cr.

**4538 Advanced Labor Economics**

(A-F only; Prereq: 3101, 3102 or equiv; Calc 1 or equivalent)  
68693 001 LEC, 09:45-11:25 TTh, Blegen Hall 235, In Person Term Based; Jeremy Lise ; 4 cr.

**4631 Industrial Organization and Antitrust Policy**

(Student Option; Prereq: 3101 or equiv)  
56403 002 LEC, 13:00-14:15 MW, Blegen Hall 255, In Person Term Based; 3 cr.

**4721 Money and Banking**

(A-F only; Prereq: [3101, 3102] or equiv)  
52676 001 LEC, 09:45-11:00 TTh, Blegen Hall 255, In Person Term Based; 3 cr.

**4751 Financial Economics**

(Student Option; Prereq: [3101 or equiv], [MATH 1271 or equiv], one sem statistics)  
54214 002 LEC, 14:30-15:45 TTh, Blegen Hall 255, In Person Term Based; 3 cr.

**4758 Advanced Financial Economics**

(A-F only; Prereq: 3101, [3102 or equiv], [Math 1271 or equiv], [Stat 3011 or equiv], [Math 1272 or equiv])  
55343 001 LEC, 12:00-13:40 TTh, Blegen Hall 230, In Person Term Based; Jan Werner ; 4 cr.

**4821 Public Economics**

(A-F only; Prereq: [3101, 3102] or equiv)  
54631 001 LEC, 08:15-09:30 TTh, Hanson Hall 1-107, In Person Term Based; 3 cr.

**4831 Cost-Benefit Analysis**

(A-F only; Prereq: ECON 3101)  
53560 001 LEC, 11:15-12:30 MW, Hanson Hall 1-109, In Person Term Based; 3 cr.

**4993 Directed Study**

(Student Option; Prereq: dept consent)  
52677 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**Ecuador (ECDR)****Educational Psychology (EPSY)****1261 Understanding Data Stories through Visualization & Computing**

(Student Option; MATH)  
52085 001 LEC, 09:45-11:00 TTh, Wulling Hall 220, In Person Term Based; Suzanne Loch ; 3 cr.  
52105 002 LEC, 09:45-11:00 MW, Appleby Hall 219, In Person Term Based; Suzanne Loch ; 3 cr.

**1281 Psychological Science Applied**

(A-F only; SOCS)  
52030 001 LEC, 09:05-09:55 MW, Willey Hall 125, In Person Term Based; Martin Van Boekel ; 4 cr.  
52031 002 LAB, 15:35-16:25 TTh, Folwell Hall 105, In Person Term Based; Martin Van Boekel ; 4 cr.  
52034 005 LAB, 15:35-16:25 TTh, Folwell Hall 121, In Person Term Based; Martin Van Boekel ; 4 cr.  
66024 006 LAB, 09:05-09:55 TTh, Appleby Hall 303, In Person Term Based; Martin Van Boekel ; 4 cr.  
66025 007 LAB, 09:05-09:55 TTh, Folwell Hall 32, In Person Term Based; Martin Van Boekel ; 4 cr.  
66026 008 LAB, 09:05-09:55 TTh, Folwell Hall 31, In Person Term Based; Martin Van Boekel ; 4 cr.

**2201 Basics of Research Methods**

(A-F only; )  
68794 001 LEC, 10:10-11:00 MW, , In Person Term Based; Ethan Brown ; 2 cr.

**2201H Basics of Research Methods for Honors Students**

(A-F only; )  
68795 001 LEC, 10:10-11:00 MW, Folwell Hall 3, In Person Term Based; Ethan Brown ; 2 cr.

**2601 Understanding Differences, Disabilities, and the Career of Special Education**

(A-F only; DSJ)  
69487 002 LEC, 11:45-14:15 TTh, Appleby Hall 128, In Person Term Based; Laura Meyer, Sara Burrington ; 4 cr.  
69490 003 FWK, In Person Term Based; Laura Meyer ; 4 cr.

**3101 Creativity and Intelligence: an Introduction**

(Student Option No Audit; )  
51752 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 EPSY 5101; William Bart ; 3 cr.

**3119 Learning, Cognition, and Assessment (A-F or Audit; )**

51035 001 LEC, 13:00-14:15 T, Anderson Hall 330, In Person Term Based; Meets With: 001 EPSY 5001; Martin Van Boekel ; 3 cr.  
51859 002 LAB, 13:00-14:15 Th, Nicholson Hall 145, In Person Term Based; Meets With: 002 EPSY 5001; Martin Van Boekel ; 3 cr.  
51860 003 LAB, 13:00-14:15 Th, Mechanical Engineering 321, In Person Term Based; Meets With: 003 EPSY 5001; Martin Van Boekel ; 3 cr.

**3132 Psychology of Multiculturalism in Education**

(A-F or Audit; DSJ)  
52199 001 LEC, 11:15-12:30 TTh, Peik Hall 315, In Person Term Based; 3 cr.

**3264 Basic and Applied Statistics (Student Option; MATH)**

51058 001 LEC, 09:45-11:00 MW, Bruininks Hall 420B, In Person Term Based; Youfu Yan ; 3 cr.  
51244 002 LEC, 09:45-11:00 TTh, Bruininks Hall 530B, In Person Term Based; Vimal Rao ; 3 cr.  
51279 003 LEC, 13:00-14:15 TTh, Bruininks Hall 420B, In Person Term Based; Regina Lisinker ; 3 cr.  
51538 004 LEC, 00:00-00:00 , ONLINE, Completely Online; Suzanne Loch ; 3 cr.

**3701 Practicum: Field Experience in General Education - Inclusive Classrooms**

(S-N only; )  
51934 001 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.

**3801 The Science of Human Resilience and Wellbeing: Foundational Knowledge for Career and Life Success**

(A-F or Audit; SOCS)  
52208 001 LEC, 09:45-11:00 MW, Peik Gymnasium G65, In Person Term Based; Jessie Kember ; 3 cr.

**3802 Contemporary Issues in School Psychology**

(A-F only; )  
68071 001 LEC, 09:45-11:00 TTh, Peik Hall 155, In Person Term Based; Sarah Wollersheim Shervy ; 3 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.)  
51910 001 DIS, 08:05-11:00 W, Appleby Hall 103, In Person Term Based; Amber Reilly ; 1 cr.

**4994 Faculty Directed Research in Educational Psychology**

(A-F only; Prereq: instr consent)  
68919 001 IND, In Person Term Based; Kathy Seifert ; 1-6 cr.

**5001 Learning, Cognition, and Assessment**

(Student Option; Prereq: MED/initial licensure student or CLA music ed or preteaching major or instr consent; psych course recommended)

51189 001 LEC, 13:00-14:15 T, Anderson Hall 330, In Person Term Based; Meets With: 001 EPSY 3119; Martin Van Boekel ; 3 cr.  
51857 002 LAB, 13:00-14:15 Th, Nicholson Hall 145, In Person Term Based; Meets With: 002 EPSY 3119; Martin Van Boekel ; 3 cr.  
51858 003 LAB, 13:00-14:15 Th, Mechanical Engineering 321, In Person Term Based; Meets With: 003 EPSY 3119; Martin Van Boekel ; 3 cr.  
51982 005 LEC, 16:30-17:45 T, Peik Hall 155, In Person Term Based; Jenifer Doll ; 3 cr.  
51983 006 LAB, 17:55-19:10 T, Peik Hall 155, In Person Term Based; Jenifer Doll ; 3 cr.

**5016 Teaching Students with Special Needs in Inclusive Settings**

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
51836 001 FWK, 16:40-19:20 Th, Burton Hall 123, Partially Online; Caroline Roberts ; 1 cr.

**5101 Intelligence and Creativity**

(A-F or Audit; )  
51541 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 EPSY 3101; William Bart ; 3 cr.

**5116 Education of the Gifted and Talented (Student Option No Audit; )**

52027 001 LEC, 00:00-00:00 , ONLINE, Completely Online; William Bart ; 3 cr.

**5123 Programming Workflows for Psychological Research**

(Student Option; Prereq: Students should have taken an undergraduate- or graduate-level statistics course.)  
66657 001 DIS, 14:30-17:10 W, Peik Hall 155, In Person Term Based; Jeffrey Bye ; 3 cr.

**5151 Cooperative Learning**

(Student Option; )  
51880 001 LEC, 08:00-17:00 Sa, Folwell Hall 108, 08:00-13:00 Sa, Folwell Hall 108, In Person Term Based; David Johnson ; 3 cr.

**5157 Social & Developmental Psychology of Education**

(A-F or Audit; )  
65963 001 LEC, 08:30-11:00 T, Twin Cities Remote, Completely Online; Martin Van Boekel ; 3 cr.

**5221 Principles of Educational and Psychological Measurement**

(Student Option; )  
65896 002 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Jiayi Deng ; 3 cr.

**5243 Principles and Methods of Evaluation (Student Option; )**

51755 001 LEC, Completely Online; Meets With: 001 OLPD 5501; Stuart Yeh ; 3 cr.  
52228 002 LEC, Completely Online; Meets With: 002 OLPD 5501; Stuart Yeh ; 3 cr.

**5261 Introductory Statistical Methods**

(Student Option; )  
65855 001 LEC, 11:15-12:30 TTh, Bruininks Hall 432, In Person Term Based; Robert delMas ; 3 cr.  
65856 002 LEC, Completely Online; Chelsey Legacy ; 3 cr.

**5262 Intermediate Statistical Methods**

(Student Option; Prereq: 3264 or 5261 or equiv)  
51572 001 LEC, 14:30-15:45 MW, Appleby Hall 302, In Person Term Based; Ethan Brown ; 3 cr.

**5400 Special Topics in Counseling Psychology**

(Student Option; )  
66424 002 LEC, 15:35-16:25 W, Nicholson Hall 145, In Person Term Based; Marguerite Ohrtman ; 1-4 cr.  
66816 003 LEC, 13:00-15:00 M, Twin Cities Remote, Completely Online; Sherri Turner ; 1-4 cr.  
67816 004 LEC, 13:00-15:00 M, Twin Cities Remote, Completely Online; Sherri Turner ; 1-4 cr.  
67817 005 LEC, 13:00-15:00 M, Twin Cities Remote, Completely Online; Sherri Turner ; 1-4 cr.

**5403 Counseling Diverse Populations (A-F or Audit; )**

51034 001 DIS, 09:00-12:00 M, Nicholson Hall 115, In Person Term Based; Feven Seifu ; 3 cr.

**5407 Diagnosis and Treatment in Counseling**

(A-F only;)  
51576 001 LEC, 12:20-15:20 Th, Appleby Hall 319, In Person Term Based; 3 cr.

**5409 Trauma and Crisis Counseling**

(A-F only;)  
65989 001 LEC, 16:40-19:20 M, Elliott Hall N647, In Person Term Based; Cristina Silva Gleason ; 3 cr.

**5437 Counseling Research Design & Evidence-Based Practices**

(A-F only;)  
65990 001 LEC, 16:40-19:20 T, Folwell Hall 103, Partially Online; Sherri Turner ; 3 cr.

**5439 Case Conceptualization and Treatment Planning**

(A-F only;)  
65988 001 LEC, 15:35-18:15 M, Appleby Hall 319, In Person Term Based; Feven Seifu ; 3 cr.

**5481 Practicum in School Counseling**

(A-F only;)  
65972 001 FWK, 09:05-12:05 W, Education Sciences Bldg 125, In Person Term Based; Marguerite Ohrtman ; 3 cr.  
65973 002 FWK, 12:00-15:00 T, Education Sciences Bldg 125, In Person Term Based; Carolyn Berger ; 3 cr.  
65987 003 FWK, 16:30-19:30 W, Education Sciences Bldg 125, In Person Term Based; Eman Abdullahi ; 3 cr.

**5484 Internship II**

(A-F or Audit; )  
51037 001 FWK, 09:00-12:00 W, Peik Hall 375, In Person Term Based; Seth Christman ; 3 cr.  
51261 003 FWK, 16:30-19:30 W, Folwell Hall 31, In Person Term Based; Marguerite Ohrtman ; 3 cr.  
65992 002 FWK, 12:00-15:00 T, Vincent Hall 364, In Person Term Based; Feven Seifu ; 3 cr.

**5604 Transition From School to Work and Community Living for Persons With Special Needs**

(Student Option; )  
51032 001 LEC, 16:40-19:20 M, Peik Hall 315, In Person Term Based; 3 cr.

**5605W Collaborative Practices for the Special Educator**

(A-F only; WI)  
51935 001 LEC, 16:40-18:00 Th, Burton Hall 120, In Person Term Based; Kathy Seifert ; 3 cr.

**5613 Foundations of Special Education I**

(A-F or Audit; DSJ)  
51033 001 LEC, 13:00-14:15 TTh, Peik Gymnasium G55, In Person Term Based; Robert Henery ; 3 cr.  
52057 003 LEC, 16:40-19:20 W, Twin Cities Remote, Completely Online; Amy Kunkel ; 3 cr.

**5614W Assessment and Due Process in Special Education**

(A-F or Audit; WI)  
51029 001 LEC, 16:40-19:20 W, Peik Hall 315, In Person Term Based; Kathy Seifert ; 3 cr.  
52330 002 LEC, 16:40-19:20 W, Peik Hall 165, In Person Term Based; Megan Halverson ; 3 cr.

**5616W Classroom Management and Behavior Analytic Problem Solving**

(Student Option; Prereq: For online sections, students must be an ASD certificate candidate or a Special Education Major or Special Education M.Ed./M.A.WI)  
51327 001 LEC, 14:30-15:45 TTh, Peik Gymnasium G55, In Person Term Based; Robert Henery ; 3 cr.  
51716 003 LEC, 16:40-19:20 Th, Twin Cities Remote, Completely Online; Amy Kunkel ; 3 cr.

**5617 Academic and Social Interventions for Students with Mild to Moderate Disabilities**

(A-F only; Prereq: instr consent)  
51881 001 LEC, 16:40-18:00 T, Burton Hall 120, In Person Term Based; Kathy Seifert ; 3 cr.

**5631 Module 1: Introduction to Augmentative and Alternative Communication**

(A-F only;)  
51883 001 LEC, Completely Online; Brenna Pham ; 1 cr.

**5632 Module 2: Evidence-based Methods for AAC Assessment and Intervention**

(A-F only;)  
69647 001 LEC, Primarily Online; Andrea Ford ; 2 cr.

**5645 Deaf Plus: Educating and Understanding Deaf Students with Disabilities**

(A-F only;)  
52121 001 LEC, 18:40-20:20 W, Lrng & Environmental Sci 140A, In Person Term Based; Janet Caven ; 2 cr.

**5646 Best Practices Teaching Reading and Writing for School Age: Deaf and Hard of Hearing**

(A-F only;)  
52112 001 LEC, 16:40-19:20 M, Lrng & Environmental Sci 140A, In Person Term Based; Janet Caven ; 3 cr.

**5651 Best Practices Teaching Content Areas: Deaf Education**

(A-F only;)  
51882 001 LEC, 16:40-19:20 T, Lrng & Environmental Sci 140A, In Person Term Based; Brynn Roemen ; 3 cr.

**5654 Current Research, Issues Trends in Deaf Education**

(A-F only;)  
52113 001 DIS, 16:40-18:30 W, Lrng & Environmental Sci 140A, In Person Term Based; Debbie Golos ; 1 cr.

**5663 Assessment and Intervention for Individuals with Autism Spectrum Disorder**

(A-F only; Prereq: 5661, Special Ed grad, licensure student, ASD Certificate student, IDP major or instr consent)  
52452 001 LEC, 16:40-19:20 T, Twin Cities Remote, Completely Online; M. Y. Savana Bak ; 3 cr.

**5681 Educating Preschoolers with Disabilities: Specialized Approaches and Interventions**

(A-F only; Prereq: [5616, 5625] or instr consent)  
51030 001 LEC, 16:40-19:20 M, Twin Cities Remote, Completely Online; Brenna Rudolph ; 3 cr.

**5699 Experimental Teaching Seminar**

(A-F only; Prereq: instr consent)  
51886 001 LEC, 16:40-18:20 W, Twin Cities Remote, Completely Online; Robert Henery ; 2 cr.  
52417 002 LEC, In Person Term Based; Robert Henery ; 2 cr.

**5701 Practicum: Field Experience in General Education - Inclusive Classrooms**

(S-N only;)  
51243 001 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.

**5704 Clinical: Field Experiences in Middle and Secondary (HS/T) Special Education Classrooms**

(S-N only;)  
51884 001 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.  
52116 002 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.  
52117 003 FWK, In Person Term Based; Janet Caven ; 1-2 cr.  
52118 004 FWK, In Person Term Based; Janet Caven ; 1-2 cr.

**5705 Clinical: Field Experiences in ECSE or Elementary Special Education Classrooms**

(S-N only;)  
51885 001 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.  
52114 002 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.  
52115 003 FWK, In Person Term Based; Janet Caven ; 1-2 cr.  
52120 004 FWK, In Person Term Based; Janet Caven ; 1-2 cr.

**5708 Practicum in Moderate to Severe Emotional/Behavioral Disorders**

(S-N only;)  
52001 001 FWK, 17:00-20:00 M, Twin Cities Remote, Completely Online; Robert Henery ; 2 cr.

**5741 Student Teaching: Academic and Behavioral Strategist**

(S-N only; Prereq: Special education licensure program or instr consent)  
51936 001 FWK, 17:00-20:00 M, Twin Cities Remote, Completely Online; Brenna Rudolph ; 3-6 cr.

**5751 Student Teaching for Deaf Education**

(A-F only;)  
52450 001 FWK, Completely Online; 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)  
51683 001 FWK, 17:00-20:00 M, Twin Cities Remote, Completely Online; Brenna Rudolph ; 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)  
51684 001 FWK, Completely Online; Brenna Rudolph ; 3 cr.

**5851 Engaging Diverse Students and Families**

(Student Option; Prereq: Honors senior or grad student)  
52102 001 DIS, 09:05-12:05 T, Civil Engineering Bldg 213, In Person Term Based; Mollie Weeks ; 3 cr.

**5991 Independent Study in Educational Psychology**

(A-F or Audit; Prereq: instr consent)  
51148 001 IND, Completely Online; Amy Kunkel ; 1-8 cr.  
51149 002 IND, Independent/Directed Study; 1-8 cr.  
51150 003 IND, Independent/Directed Study; 1-8 cr.  
51151 004 IND, Independent/Directed Study; 1-8 cr.  
51948 005 IND, Independent/Directed Study; 1-8 cr.  
52076 006 IND, In Person Term Based; 1-8 cr.

**Educational/Human Development (EDHD)****1525W CEHD First Year Experience**

(A-F only; WI)  
67722 001 LEC, 12:30-14:15 Th, Bruininks Hal 121, 12:30-14:15 T, Peik Hall 25, Partially Online; K.C. Harrison ; 4 cr.

**1620 Current Topics: Strategies for Student Success**

(Student Option; )  
68497 001 LEC, 12:20-14:15 Th, Kolthoff Hall 139, In Person Term Based; Tabatha Cruz ; 1-4 cr.  
68498 002 LEC, 11:15-13:10 W, Peik Hall 225, In Person Term Based; Stephanie Erickson ; 1-4 cr.  
68499 003 LEC, 14:30-16:25 Th, Ford Hall 170, In Person Term Based; Jonathan Andicoechea ; 1-4 cr.

**1904 Globalizing your Undergraduate Curriculum**

(A-F only; GP,IP)  
68018 001 LEC, 17:00-20:00 T, Folwell Hall 106, In Person Term Based; Irene Duranczyk ; 3 cr.

**2701 Your Future: Identity, Culture & Career Success**

(Student Option No Audit; )  
67811 002 LEC, 14:30-16:25 Th, Smith Hall 111, In Person Term Based; Denise Felder ; 2 cr.

**Electrical & Computer Eng (EE)****1001 Introduction to Electrical and Computer Engineering**  
(S-N or Audit; )

59407 001 LEC, 16:00-17:45 T, Molecular Cellular Biol 2-120, In Person Term Based; Marc Riedel ; 1 cr.

**1301 Introduction to Computing Systems**  
(Student Option; )

59519 001 LEC, 14:30-15:45 TTh, Nicholson Hall 155, In Person Term Based; David Orser ; 4 cr.

59520 002 LAB, 16:00-17:55 T, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

59751 005 LAB, 11:15-13:10 W, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

61243 003 LAB, 09:05-11:00 W, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

61244 008 LAB, 09:05-11:00 Th, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

61856 009 LAB, 11:15-13:10 Th, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

66427 004 LAB, 13:00-14:55 M, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

66428 010 LAB, 13:00-14:55 F, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

69525 011 LAB, 11:15-13:10 T, Keller Hall 4-138, In Person Term Based; David Orser ; 4 cr.

**2015 Signals, 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))

61651 001 LEC, 09:45-11:00 TTh, Akerman Hall 209, In Person Term Based; Bethanie Stadler ; 4 cr.

61652 002 DIS, 13:25-14:15 T, Amundson Hall 116, In Person Term Based; Bethanie Stadler ; 4 cr.

61653 003 DIS, 14:30-15:20 T, Amundson Hall 116, In Person Term Based; Bethanie Stadler ; 4 cr.

61654 004 LAB, 11:15-13:10 W, Keller Hall 3-144, In Person Term Based; Bethanie Stadler ; 4 cr.

61655 005 LAB, 13:25-15:20 W, Keller Hall 3-144, In Person Term Based; Bethanie Stadler ; 4 cr.

61656 006 LAB, 11:15-13:10 Th, Keller Hall 3-144, In Person Term Based; Bethanie Stadler ; 4 cr.

61657 007 LAB, 13:25-15:20 Th, Keller Hall 3-144, In Person Term Based; Bethanie Stadler ; 4 cr.

**2115 Analog and Digital Electronics**  
(Student Option; Prereq: 2015)

61694 002 DIS, 13:25-14:15 T, Akerman Hall 313, In Person Term Based; Tony Low ; 4 cr.

61707 007 LAB, 11:15-13:10 M, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61708 003 DIS, 14:30-15:20 T, Akerman Hall 227, In Person Term Based; Tony Low ; 4 cr.

61709 004 DIS, 11:15-12:05 W, Akerman Hall 317, In Person Term Based; Ted Higman ; 4 cr.

61710 005 DIS, 14:30-15:20 W, Akerman Hall 211, In Person Term Based; Ted Higman ; 4 cr.

61711 006 DIS, 14:30-15:20 Th, Akerman Hall 227, In Person Term Based; William Robbins ; 4 cr.

61712 008 LAB, 13:25-15:20 M, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61714 010 LAB, 13:25-15:20 T, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61715 011 LAB, 11:15-13:10 W, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61716 012 LAB, 13:25-15:20 W, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61718 014 LAB, 13:25-15:20 Th, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61719 001 LEC, 09:45-11:00 TTh, Tate Hall B20, In Person Term Based; Tony Low ; 4 cr.

61885 015 LAB, 11:15-13:10 F, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

61886 016 LAB, 13:25-15:20 F, Keller Hall 3-136, In Person Term Based; Tony Low ; 4 cr.

**2301 Introduction to Digital System Design**  
(Student Option; Prereq: [EE 1301 (preferred) or CSCI 1113 or CSCI 1103 or CSCI 1133])

59238 001 LEC, 09:05-09:55 MWF, Keller Hall 3-230, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

59239 014 LAB, 11:15-13:10 T, Keller Hall 2-178, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

59750 016 LAB, 11:15-13:10 W, Keller Hall 2-178, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

60722 002 DIS, 12:20-13:10 T, Akerman Hall 313, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

60728 003 DIS, 12:20-13:10 W, Akerman Hall 215, In Person Term Based; David Orser ; 4 cr.

67651 004 DIS, 14:30-15:20 W, Akerman Hall 327, In Person Term Based; David Orser ; 4 cr.

67656 018 LAB, 11:15-13:10 Th, Keller Hall 2-178, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

67657 019 LAB, 13:25-15:20 Th, Keller Hall 2-178, In Person Term Based; Abolghassem Mahmoudi ; 4 cr.

**2361 Introduction to Microcontrollers**

(Student Option; Prereq: [EE 1301 (preferred) or CSCI 1113 or CSCI 1103 or CSCI 1133])

59259 001 LEC, 10:10-11:00 MWF, Tate Hall 105, In Person Term Based; Changhyun Choi ; 4 cr.

59508 017 LAB, 11:15-13:10 M, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59509 021 LAB, 11:15-13:10 W, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59510 018 LAB, 13:25-15:20 M, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59688 022 LAB, 13:25-15:20 W, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59748 020 LAB, 13:25-15:20 T, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59749 023 LAB, 11:15-13:10 Th, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59852 024 LAB, 13:25-15:20 Th, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

59853 025 LAB, 11:15-13:10 F, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

60723 002 DIS, 15:35-16:25 M, Keller Hall 4-138, In Person Term Based; Changhyun Choi ; 4 cr.

60724 003 DIS, 13:25-14:15 T, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.

60725 004 DIS, 13:25-14:15 W, Keller Hall 4-138, In Person Term Based; Nicola Elia ; 4 cr.

60726 005 DIS, 14:30-15:20 W, Keller Hall 4-138, In Person Term Based; Nicola Elia ; 4 cr.

61175 026 LAB, 13:25-15:20 F, Keller Hall 2-182, In Person Term Based; Changhyun Choi ; 4 cr.

**2701 Sustainable Electricity Supply: Renewables and Conservation**

(Student Option; Prerequisite: Physics 1302W (or equivalent)TS)

67659 001 LEC, 13:25-14:40 MW, Molecular Cellular Biol 2-120, In Person Term Based; Ned Mohan ; 3 cr.

**3005 Fundamentals of Electrical Engineering**

(Student Option; Prereq: Math 2243, Phys 1302; not for EE majors)

59246 001 LEC, 09:05-09:55 MTWTh, Tate Hall 101, In Person Term Based; Jeong-Hyun Cho ; 4 cr.

**3006 Fundamentals of Electrical Engineering Laboratory**

(Student Option; Prereq: Concurrent enrollment in 3005 is allowed but not required)

59247 004 LAB, 15:35-17:30 M, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

59248 005 LAB, 11:15-13:10 T, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

59249 006 LAB, 13:25-15:20 T, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

59250 007 LAB, 15:35-17:30 Th, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

59251 008 LAB, 09:05-11:00 F, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

59252 009 LAB, 11:15-13:10 F, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

60579 001 LAB, 11:15-13:10 M, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

**3015 Signals and Systems**

(Student Option; Prereq: [2115, CSE Upper Division] or dept consent)

59354 001 LEC, 11:15-12:30 TTh, Tate Hall 110, In Person Term Based; Mingyi Hong ; 3 cr.

59355 002 DIS, 14:30-15:20 M, Keller Hall 3-170, In Person Term Based; Mingyi Hong ; 3 cr.

59356 003 DIS, 09:05-09:55 T, Keller Hall 3-170, In Person Term Based; Mingyi Hong ; 3 cr.

**3025 Statistical Methods in Electrical and Computer Engineering**

(Student Option; Prereq: [3015, CSE upper division] or instr approval)

59242 001 LEC, 11:15-12:30 TTh, Tate Hall 105, In Person Term Based; Soheil Mohajer ; 3 cr.

59243 002 DIS, 14:30-15:20 T, Keller Hall 3-170, In Person Term Based; Soheil Mohajer ; 3 cr.

59245 005 DIS, 14:30-15:20 Th, Keller Hall 3-170, In Person Term Based; Gerald Sobelman ; 3 cr.

60855 006 DIS, 13:25-14:15 F, Keller Hall 3-170, In Person Term Based; Soheil Mohajer ; 3 cr.

61350 007 DIS, 09:05-09:55 F, Keller Hall 3-170, In Person Term Based; Keshab Parhi ; 3 cr.

**3101 Signals, Circuits and Electronics Laboratory**

(A-F only; Prereq: [2115, &amp;3015, &amp;3115, CSE Upper Division] or dept consent)

59360 001 LAB, 09:05-09:55 M, Keller Hall 3-136, In Person Term Based; Ted Higman ; 1 cr.

59361 005 LAB, 10:10-11:00 T, Keller Hall 3-136, In Person Term Based; Ted Higman ; 1 cr.

61120 003 LAB, 10:10-11:00 M, Keller Hall 3-136, In Person Term Based; Ted Higman ; 1 cr.

61246 007 LAB, 10:10-11:00 W, Keller Hall 3-136, In Person Term Based; Ted Higman ; 1 cr.

**3102 Circuits and Electronics Laboratory II**  
(Student Option; Prereq: [3101 or CSE or dept consent], attendance first day of class.)

59362 004 LAB, 15:35-17:30 T, Keller Hall 3-136, In Person Term Based; Chris H. Kim ; 2 cr.

59363 005 LAB, 09:05-11:00 W, Keller Hall 3-144, In Person Term Based; Chris H. Kim ; 2 cr.

59364 006 LAB, 15:35-17:30 W, Keller Hall 3-136, In Person Term Based; Chris H. Kim ; 2 cr.

59698 002 LAB, 15:35-17:30 M, Keller Hall 3-136, In Person Term Based; Chris H. Kim ; 2 cr.

59699 003 LAB, 09:05-11:00 T, Keller Hall 3-144, In Person Term Based; Chris H. Kim ; 2 cr.

60281 009 LAB, 13:25-15:20 F, Keller Hall 3-144, In Person Term Based; Chris H. Kim ; 2 cr.

61039 001 DIS, 13:25-14:15 M, Smith Hall 331, In Person Term Based; Chris H. Kim ; 2 cr.

61247 010 LAB, 15:35-17:30 F, Keller Hall 3-136, In Person Term Based; Chris H. Kim ; 2 cr.

**3115 Analog Electronics**

(Student Option; Prereq: [EE 2115, &amp;EE 3015, CSE upper division] or dept consent)

59367 001 LEC, 13:00-14:15 TTh, Smith Hall 231, In Person Term Based; Ramesh Harjani ; 3 cr.

59368 003 DIS, 15:35-16:25 W, Keller Hall 3-170, In Person Term Based; Jungwon Choi ; 3 cr.

61002 004 DIS, 15:35-16:25 Th, Keller Hall 3-170, In Person Term Based; Jungwon Choi ; 3 cr.

67664 002 DIS, 15:35-16:25 M, Keller Hall 3-170, In Person Term Based; Ramesh Harjani ; 3 cr.

**3161 Semiconductor Devices**

(Student Option; Prereq: Upper div CSE, 2115, Phys 1302, Phys 2303 or Chem 1022)

59399 001 LEC, 11:15-12:05 MWF, Nicholson Hall 125, In Person Term Based; Joseph Talghader ; 3 cr.

59400 002 DIS, 13:25-14:15 W, Akerman Hall 227, In Person Term Based; Joseph Talghader ; 3 cr.

59401 003 DIS, 14:30-15:20 W, Akerman Hall 227, In Person Term Based; Joseph Talghader ; 3 cr.

**3601 Transmission Lines, Fields, and Waves**

(Student Option; Prereq: [2015, [Math 2374 or Math 2263 or Math 2574H or Math 3584H], [Phys 1302 or Phys 1402], CSE] or dept consent)

59357 001 LEC, 12:20-13:10 MWF, Akerman Hall 319, In Person Term Based; Rhonda Franklin ; 3 cr.

59358 004 DIS, 14:30-15:20 M, Akerman Hall 327, In Person Term Based; Rhonda Franklin ; 3 cr.

59760 006 DIS, 15:35-16:25 T, Akerman Hall 327, In Person Term Based; Yahya Tousei ; 3 cr.

**3990 Curricular Practical Training**

(S-N only; Prereq: instr consent, undergrad EE or CompE major)

60410 001 FWK, 00:00-00:00 , , Independent/Directed Study; James Leger ; 1-2 cr.

**4044 Industrial Assignment III**

(A-F only; Prereq: 4043W)

60581 001 FWK, 00:00-00:00 , , Independent/Directed Study; Kia Bazargan ; 2 cr.

**4111 Advanced Analog Electronics Design**  
(Student Option; Prereq: 3015, 3115)

59369 001 LEC, 15:35-16:25 MWF, Mechanical Engineering 321, In Person Term Based; Ted Higman ; 4 cr.

59746 002 LAB, 12:35-14:25 Th, Keller Hall 2-120, In Person Term Based; Ted Higman ; 4 cr.

60739 003 LAB, 13:25-15:15 W, Keller Hall 2-120, In Person Term Based; Ted Higman ; 4 cr.

**4161W Energy Conversion and Storage**

(Student Option; Prereq: 3161 or instr consentWI)

60738 001 LEC, 11:15-12:30 TTh, Bruininks Hall 312, In Person Term Based; William Robbins ; 3 cr.

**4163 Energy Conversion and Storage****Laboratory****(Student Option; Prereq: concurrent registration is required (or allowed) in 4161W)**

- 60818 001 LAB, 08:00-11:00 M, Keller Hall 2-140, In Person Term Based; William Robbins ; 1 cr.  
 60819 002 LAB, 08:00-11:00 T, Keller Hall 2-140, In Person Term Based; William Robbins ; 1 cr.  
 61248 004 LAB, 08:00-11:00 W, Keller Hall 2-140, In Person Term Based; William Robbins ; 1 cr.  
 69234 003 LAB, 08:00-11:00 F, , In Person Term Based; William Robbins ; 1 cr.

**4233 State Space Control System Design****(Student Option; Prereq: [3015, upper div CSE] or instr consent)**

- 59377 001 LEC, 16:00-17:15 TTh, Keller Hall 3-111, In Person Term Based; Andrew Lamperski ; 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)**

- 60701 002 LAB, 12:20-14:15 W, Keller Hall 2-188, In Person Term Based; Andrew Lamperski ; 1 cr.  
 61020 001 LAB, 08:00-09:55 W, Keller Hall 2-188, In Person Term Based; Andrew Lamperski ; 1 cr.

**4341 Embedded System Design****(Student Option; Prereq: 2301, 2361, upper div CSE)**

- 59390 001 LEC, 11:15-12:05 MWF, Keller Hall 3-115, In Person Term Based; Thomas Posbergh ; 4 cr.  
 59391 003 LAB, 14:30-16:25 M, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
 59392 005 LAB, 10:10-12:05 T, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
 59393 006 LAB, 12:20-14:15 T, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
 59745 007 LAB, 12:20-14:15 W, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
 61249 002 LAB, 08:00-09:55 M, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.

**4363 Computer Architecture and Machine Organization****(Student Option; Prereq: 2361)**

- 59790 001 LEC, 09:45-11:00 TTh, Vincent Hall 16, In Person Term Based; Meets With: 001 CSCI 4203; Ulya Karpuzcu ; 4 cr.

**4741 Power Electronics****(Student Option; Prereq: 3015, 3115)**

- 67676 001 LEC, 11:15-12:30 TTh, Akerman Hall 319, In Person Term Based; Jungwon Choi ; 3 cr.

**4743 Switch-Mode Power Electronics Laboratory****(Student Option; Prereq: 4741 or concurrent registration is required (or allowed) in 4741)**

- 67678 002 LAB, 16:40-18:35 Th, Keller Hall 3-146, In Person Term Based; Jungwon Choi ; 1 cr.

**4893 Directed Study****(Student Option; Prereq: dept consent)**

- 59405 001 IND, In Person Term Based; James Leger ; 1-3 cr.

**4951W Senior Design Project****(Student Option; Prereq: 3015, 3115, 3102, attendance first day of classW)**

- 59404 001 LEC, 14:30-15:45 TTh, Tate Hall 101, In Person Term Based; Massoud Amin ; 4 cr.

**4982V Senior Honors Project II****(Student Option; Prereq: 4981W)**

- 59406 001 IND, 14:30-15:45 TTh, Keller Hall 2-260, In Person Term Based; William Robbins ; 2 cr.

**5041 Industrial Assignment for Graduate Students****(S-N only; Prereq: Consent of Advisor and Office of the DGS)**

- 61056 001 FWK, 00:00-00:00 , , In Person Term Based; Murti Salapaka ; 1 cr.

**5164 Semiconductor Properties and Devices II****(Student Option; Prereq: 5163 or instr consent)**

- 59370 001 LEC, 16:00-17:15 MW, Keller Hall 3-125, In Person Term Based; Sarah Swisher ; 3 cr.  
 59837 883 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Sarah Swisher ; 3 cr.

**5235 Robust Control System Design****(Student Option; Prereq: CSE grad, 3015, 5231 or instr consent)**

- 59697 001 LEC, 08:15-09:30 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 AEM 8421; Nicola Elia ; 3 cr.  
 59849 883 LEC, 08:15-09:30 TTh, Twin Cities Remote, Completely Online; Nicola Elia ; 3 cr.

**5302 VLSI Design Automation II****(Student Option; Prereq: [5301, CSE grad student] or dept consent)**

- 61352 001 LEC, 09:45-11:00 TTh, Keller Hall 3-115, In Person Term Based; Sachin Sapatnekar ; 3 cr.  
 61366 883 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Sachin Sapatnekar ; 3 cr.

**5324 VLSI Design II****(Student Option; Prereq: [5323, CSE grad student] or dept consent)**

- 59260 001 LEC, 13:00-14:15 TTh, Keller Hall 3-111, In Person Term Based; Chris H. Kim ; 3 cr.  
 59841 883 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Chris H. 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)**

- 59689 001 LEC, 15:35-17:30 T, Akerman Hall 319, In Person Term Based; Gerald Sobelman ; 3 cr.  
 59690 002 LAB, 15:35-17:30 Th, Keller Hall 2-120, In Person Term Based; Gerald Sobelman ; 3 cr.  
 61132 004 LAB, 13:25-15:20 F, Keller Hall 2-120, 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)**

- 68475 001 LEC, 09:45-11:00 TTh, Keller Hall 3-125, In Person Term Based; Keshab Parhi ; 3 cr.  
 68480 883 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Keshab Parhi ; 3 cr.

**5351 Applied Parallel Programming****(Student Option; Prereq: [4363 or equivalent], programming experience (C/C++ preferred))**

- 67667 001 LEC, 13:25-14:40 MW, Keller Hall 3-125, In Person Term Based; John Sartori ; 3 cr.  
 67723 883 LEC, 13:25-14:40 MW, Twin Cities Remote, Completely Online; John Sartori ; 3 cr.

**5393 Circuits, Computation, and Biology****(Student Option; )**

- 60888 001 LEC, 09:45-11:00 MW, Mechanical Engineering 108, In Person Term Based; Marc Riedel ; 3 cr.  
 60891 883 LEC, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Marc Riedel ; 3 cr.

**5505 Wireless Communication****(Student Option; Prereq: [4501, CSE grad student] or dept consent; 5501 recommended)**

- 61169 001 LEC, 13:00-14:15 MW, Keller Hall 3-111, In Person Term Based; Martina Cardone ; 3 cr.  
 61172 883 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Martina Cardone ; 3 cr.

**5561 Image Processing and Applications****(Student Option; Prereq: [4541, 5581, CSE grad student] or instr consent)**

- 61512 883 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Mehmet Akcakaya ; 3 cr.  
 67668 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 102, In Person Term Based; Mehmet Akcakaya ; 3 cr.

**5602 RF/Microwave Circuit Design****(Student Option; Prereq: [5601 or equiv], [CSE grad student or instr consent])**

- 61670 883 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Yahya Tousi ; 3 cr.  
 67669 001 LEC, 13:00-14:15 TTh, Keller Hall 3-230, In Person Term Based; Yahya Tousi ; 3 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)**

- 67670 001 LEC, 15:35-16:25 W, Vincent Hall 301, In Person Term Based; Rhonda Franklin ; 2 cr.  
 67671 002 LAB, In Person Term Based; Rhonda Franklin ; 2 cr.

**5621 Physical Optics****(Student Option; Prereq: [3015, CSE grad student] or dept consent)**

- 59512 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 108, In Person Term Based; James Leger ; 3 cr.  
 60261 883 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely 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)**

- 59513 001 LAB, 14:30-16:25 M, Keller Hall 2-158, In Person Term Based; James Leger ; 1 cr.

**5640 Introduction to Nano-Optics****(Student Option; )**

- 67672 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 212, In Person Term Based; Sang-Hyun Oh ; 3 cr.  
 67787 883 LEC, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Sang-Hyun Oh ; 3 cr.

**5670 Spintronic Devices****(Student Option; )**

- 61517 001 LEC, 14:30-15:45 MW, Keller Hall 3-111, In Person Term Based; Jianping Wang ; 3 cr.  
 61518 883 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Jianping Wang ; 3 cr.

**5705 Electric Drives in Sustainable Energy Systems****(Student Option; Prereq: [4701, CSE grad student] or dept consent)**

- 61672 001 LEC, 14:45-16:00 MW, Keller Hall 3-115, In Person Term Based; Siddharth Raju ; 3 cr.  
 61688 883 LEC, 14:45-16:00 MW, Twin Cities Remote, Completely Online; Siddharth Raju ; 3 cr.

**5707 Electric Drives in Sustainable Energy Systems Laboratory****(Student Option; Prereq: 5705 or concurrent registration is required (or allowed) in 5705)**

- 61353 001 LAB, 14:30-15:45 F, Twin Cities Remote, Completely Online; Siddharth Raju ; 1 cr.

**5990 Curricular Practical Training****(S-N or Audit; Prereq: Grad student, instr consent)**

- 59733 001 FWK, 00:00-00:00 , , In Person Term Based; Martina Cardone ; 1-2 cr.  
 60182 002 FWK, 00:00-00:00 , , In Person Term Based; Kia Bazargan ; 1-2 cr.  
 60183 003 FWK, 00:00-00:00 , , In Person Term Based; Stephen Campbell ; 1-2 cr.  
 60184 004 FWK, 00:00-00:00 , , In Person Term Based; Vladimir Cherkassky ; 1-2 cr.  
 60185 005 FWK, 00:00-00:00 , , In Person Term Based; Changhyun Choi ; 1-2 cr.  
 60186 006 FWK, 00:00-00:00 , , In Person Term Based; Philip Cohen ; 1-2 cr.  
 60187 007 FWK, 00:00-00:00 , , In Person Term Based; Rhonda Franklin ; 1-2 cr.  
 60188 008 FWK, 00:00-00:00 , , In Person Term Based; Emad Ebbini ; 1-2 cr.  
 60189 009 FWK, 00:00-00:00 , , In Person Term Based; Douglas Ernie ; 1-2 cr.  
 60190 010 FWK, 00:00-00:00 , , In Person Term Based; Mingyi Hong ; 1-2 cr.  
 60191 011 FWK, 00:00-00:00 , , In Person Term Based; Sairaj Dhople ; 1-2 cr.  
 60192 012 FWK, 00:00-00:00 , , In Person Term Based; Georgios Giannakis ; 1-2 cr.  
 60193 013 FWK, 00:00-00:00 , , In Person Term Based; Anand Gopinath ; 1-2 cr.  
 60194 014 FWK, 00:00-00:00 , , In Person Term Based; Ramesh Harjani ; 1-2 cr.  
 60195 015 FWK, 00:00-00:00 , , In Person Term Based; Mehmet Akcakaya ; 1-2 cr.  
 60196 016 FWK, 00:00-00:00 , , In Person Term Based; Ted Higan ; 1-2 cr.  
 60197 017 FWK, 00:00-00:00 , , In Person Term Based; Andrew Lamperski ; 1-2 cr.  
 60198 018 FWK, 00:00-00:00 , , In Person Term Based; Massoud Amin ; 1-2 cr.  
 60199 019 FWK, 00:00-00:00 , , In Person Term Based; Paul Imbertson ; 1-2 cr.  
 60200 020 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60201 021 FWK, 00:00-00:00 , , In Person Term Based; Jeong-Hyun Cho ; 1-2 cr.  
 60202 022 FWK, 00:00-00:00 , , In Person Term Based; Jungwon Choi ; 1-2 cr.  
 60203 023 FWK, 00:00-00:00 , , In Person Term Based; Nicola Elia ; 1-2 cr.  
 60204 024 FWK, 00:00-00:00 , , In Person Term Based; Mostafa Kaveh ; 1-2 cr.

60205 025 FWK, 00:00-00:00 , , In Person Term Based; Jarvis Haupt ; 1-2 cr.  
 60206 026 FWK, 00:00-00:00 , , In Person Term Based; Mingyi Hong ; 1-2 cr.  
 60207 027 FWK, 00:00-00:00 , , In Person Term Based; Ulya Karpuzcu ; 1-2 cr.  
 60208 028 FWK, 00:00-00:00 , , In Person Term Based; Chris H. Kim ; 1-2 cr.  
 60209 029 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60210 030 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60211 031 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60212 032 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60213 033 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60214 034 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60215 035 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60216 036 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60217 037 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60218 038 FWK, 00:00-00:00 , , In Person Term Based; Donatello Materassi ; 1-2 cr.  
 60219 039 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60220 040 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60221 041 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60222 042 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60223 043 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60224 044 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60225 045 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60226 046 FWK, 00:00-00:00 , , In Person Term Based; Sarah Swisher ; 1-2 cr.  
 60227 047 FWK, 00:00-00:00 , , In Person Term Based; John Sartori ; 1-2 cr.  
 60228 048 FWK, 00:00-00:00 , , In Person Term Based; Keshab Parhi ; 1-2 cr.  
 60229 049 FWK, 00:00-00:00 , , In Person Term Based; Sachin Sapatnekar ; 1-2 cr.  
 60230 050 FWK, 00:00-00:00 , , In Person Term Based; Murti Salapaka ; 1-2 cr.  
 60231 051 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60232 052 FWK, 00:00-00:00 , , In Person Term Based; Gerald Sobelman ; 1-2 cr.  
 60233 053 FWK, 00:00-00:00 , , In Person Term Based; Bethanie Stadler ; 1-2 cr.  
 60389 054 FWK, 00:00-00:00 , , In Person Term Based; Joseph Talghader ; 1-2 cr.  
 60390 055 FWK, 00:00-00:00 , , In Person Term Based; Yasin Yazicioglu ; 1-2 cr.  
 60391 056 FWK, 00:00-00:00 , , In Person Term Based; Yahya Tousi ; 1-2 cr.  
 60392 057 FWK, 00:00-00:00 , , In Person Term Based; Randall Victoria ; 1-2 cr.  
 60393 058 FWK, 00:00-00:00 , , In Person Term Based; Jianping Wang ; 1-2 cr.  
 60394 059 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60395 060 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60396 061 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60397 062 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60398 063 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60399 064 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 60400 065 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
 69542 066 FWK, In Person Term Based; Sarah Dohm ; 1-2 cr.

57522 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1-6 cr.

### 5313 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5312)  
 57523 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

### 5316 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5315)  
 57524 001 FWK, 00:00-00:00 , , In Person Term Based; Walter Bowles ; 1 cr.

### 5330 Review of Cases

(A-F or Audit; Prereq: 5329)  
 57569 001 DIS, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1-2 cr.

### 5332 Review of cases

(A-F or Audit; Prereq: dept consent)  
 57526 001 DIS, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

### 5600 Endodontic Histopathology

(S-N or Audit; )  
 57578 001 LEC, 00:00-00:00 , , In Person Term Based; Robert Edmunds ; 1 cr.

## English as a Second Language (ESL)

### 3001 Integrated Skills for Academic

**English**  
 (Student Option; Prerequisite: non-native speaker of English)  
 64512 001 LEC, 16:40-18:35 MW, Kolthoff Hall 134, In Person Term Based; Catherine Clements ; 2 cr.

### 3006 English for Business Interactions

(Student Option; Prereq: non-native speaker of English)  
 64564 001 LEC, 16:40-18:35 T, Kolthoff Hall 135, In Person Term Based; Meets With: 001 ESL 906001 ESL 5006; LeeAnne Godfrey ; 2 cr.

### 3102 English Grammar for Academic

**Purposes**  
 (Student Option; Prerequisite: a first language other than English)  
 64660 301 LEC, Completely Online; Leah Kronick ; 4 cr.

### 3202 Academic Reading and Composition

(Student Option; Prereq: non-native speaker of English.)  
 64575 001 LEC, 08:00-09:55 MW, Blegen Hall 105, In Person Term Based; Darren LaScottie ; 5 cr.  
 64576 002 DIS, 08:00-08:50 F, Blegen Hall 210, In Person Term Based; Darren LaScottie ; 5 cr.

### 3402 Research Writing for the American

**University**  
 (Student Option; Prerequisite: a first language other than English)  
 64514 001 LEC, 16:40-18:35 MW, Kolthoff Hall 135, In Person Term Based; Meets With: 001 ESL 941; Christine Walz ; 4 cr.

### 3502 Academic Listening and Speaking

(Student Option; Prereq: a first language other than English)  
 64453 001 LEC, 12:20-14:15 MW, Blegen Hall 210, In Person Term Based; Stephanie Hanson ; 5 cr.  
 64466 002 DIS, 12:20-13:10 F, Blegen Hall 210, In Person Term Based; Stephanie Hanson ; 5 cr.

### 3551 English Pronunciation

(Student Option; Prerequisite: a first language other than English)  
 64454 301 LEC, 16:40-18:35 W, Twin Cities Remote, Completely Online; Meets With: 001 ESL 951; Annie Marrin ; 4 cr.

### 5006 English for Business Interactions

(Student Option; Prerequisites: Graduate student, a first language other than English)  
 64565 001 LEC, 16:40-18:35 T, Kolthoff Hall 135, In Person Term Based; Meets With: 001 ESL 906001 ESL 3006; LeeAnne Godfrey ; 2 cr.

### 5009 Advanced English Conversation Skills for Professionals

(Student Option; Prerequisites: Graduate student, a first language other than English)  
 64696 001 LEC, 16:40-17:30 T, Blegen Hall 210, In Person Term Based; Christine Walz ; 2 cr.

### 5302 Academic Writing

(Student Option; Prerequisites: Graduate student, a first language other than English)  
 69620 301 LEC, Completely Online; Meets With: 301 ESL 921; Stephanie Hanson ; 4 cr.

## English: Literature (ENGL)

### 1001W Introduction to Literature: Poetry, Drama, Narrative

(Student Option; LITR,WI)  
 54169 001 LEC, 08:00-09:55 TTh, Pillsbury Hall 214, In Person Term Based; Amy Bolis ; 4 cr.  
 54719 002 LEC, 15:35-17:30 MW, Wulling Hall 240, In Person Term Based; Jen-chou Liu ; 4 cr.  
 55080 003 LEC, Completely Online; Elizabeth Weixel ; 4 cr.  
 65670 004 LEC, Completely Online; Elizabeth Weixel ; 4 cr.

### 1003W Women Write the World

(Student Option; GP,WI,LITR)  
 55442 001 LEC, 10:10-11:00 MW, Mayo Bldg & Additions C231, In Person Term Based; Meets With: 001 GWSS 1003W; Rachmi Diyah Larasati ; 3 cr.  
 55539 002 DIS, 12:20-13:10 W, Ford Hall 170, In Person Term Based; Meets With: 002 GWSS 1003W; 3 cr.  
 55540 003 DIS, 11:15-12:05 W, Ford Hall 170, In Person Term Based; Meets With: 003 GWSS 1003W; 3 cr.  
 55610 004 DIS, 12:20-13:10 M, Nicholson Hall 355, In Person Term Based; Meets With: 004 GWSS 1003W; 3 cr.  
 65893 005 DIS, 11:15-12:05 M, Ford Hall 170, In Person Term Based; Meets With: 005 GWSS 1003W; 3 cr.

### 1031 Introduction to the Short Story

(Student Option; LITR)  
 55404 001 LEC, 13:00-14:15 MW, Nicholson Hall 120, In Person Term Based; Andrea Waldrep ; 3 cr.  
 55553 002 LEC, 14:30-15:45 MW, Nicholson Hall 335, In Person Term Based; Samantha Crain ; 3 cr.  
 55827 003 LEC, 16:00-18:30 W, Twin Cities Remote, Completely Online; John Watkins ; 3 cr.  
 65671 004 LEC, 11:15-12:30 Th, Nicholson Hall 120, In Person Term Based; Jennifer Jodell ; 3 cr.

### 1041 Adaptation: Literature into Film

(Student Option; AH)  
 55220 001 LEC, 17:00-19:30 Th, Pillsbury Hall 211, In Person Term Based; Zoe Rodine ; 3 cr.

### 1051 Progress & Madness: Literature, Science & Technology

(Student Option; LITR)  
 55554 001 LEC, 09:45-11:00 TTh, Nicholson Hall 145, In Person Term Based; Karen Soto ; 3 cr.  
 55828 002 LEC, 11:15-12:30 TTh, Pillsbury Hall 311, In Person Term Based; Heather Holcombe ; 3 cr.  
 65677 003 LEC, 14:30-15:45 TTh, Pillsbury Hall 214, In Person Term Based; Chris Kamerbeek ; 3 cr.

### 1181W Introduction to Shakespeare

(Student Option; LITR,WI)  
 53549 001 LEC, 09:45-11:00 TTh, Pillsbury Hall 412, In Person Term Based; Elizabeth Weixel ; 4 cr.  
 65679 003 DIS, 10:10-11:00 W, Pillsbury Hall 214, In Person Term Based; Geonyung Kim ; 4 cr.  
 66148 002 DIS, 10:10-11:00 M, Pillsbury Hall 214, In Person Term Based; Geonyung Kim ; 4 cr.

### 1301W Introduction to Multicultural

**Literatures of the United States**  
 (Student Option; DSJ,WI,LITR)  
 54895 001 DIS, 09:05-11:00 MW, Akerman Hall 215, In Person Term Based; Gregory Langen ; 4 cr.  
 55043 002 DIS, 09:05-11:00 MW, Akerman Hall 211, In Person Term Based; Brad Hagen ; 4 cr.  
 55399 003 DIS, 13:25-15:20 MW, Twin Cities Remote, Completely Online; Isadora Wagner ; 4 cr.  
 65689 004 DIS, 09:05-11:00 TTh, Twin Cities Remote, Completely Online; Isadora Wagner ; 4 cr.  
 65690 005 DIS, 09:05-11:00 TTh, Blegen Hall 230, In Person Term Based; Jen-chou Liu ; 4 cr.  
 66223 006 DIS, 13:25-15:20 TTh, Nicholson Hall 315, In Person Term Based; Jen-chou Liu ; 4 cr.

### 1401W Introduction to World Literatures in English

(Student Option; GP,WI,LITR)

## Endodontics (ENDO)

### 5306 Advanced Clinical Endodontics

(A-F or Audit; )  
 57521 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1-6 cr.

### 5309 Advanced Clinical Endodontics

(A-F or Audit; Prereq: 5308)

52542 001 LEC, 12:20-14:15 MW, Pillsbury Hall 211, In Person Term Based; Nabil Matar ; 4 cr.  
54797 002 LEC, 14:30-16:25 TTh, Nicholson Hall 115, In Person Term Based; Amy Bolis ; 4 cr.

### 1501W Literature and Public Life

(A-F only; WI,LITR,CIV)

53959 001 LEC, 09:05-11:00 MW, Pillsbury Hall 311, In Person Term Based; Eric Daigre ; 4 cr.  
54566 002 LEC, 10:10-12:05 MW, Pillsbury Hall 211, In Person Term Based; Amy Bolis ; 4 cr.  
54567 003 LEC, 12:20-14:15 MW, Pillsbury Hall 311, In Person Term Based; James Cihlar ; 4 cr.  
54568 004 LEC, 09:05-11:00 TTh, Pillsbury Hall 211, In Person Term Based; Melissa Licht ; 4 cr.  
54569 005 LEC, 11:15-13:10 TTh, Pillsbury Hall 211, In Person Term Based; Melissa Licht ; 4 cr.  
54669 006 LEC, 13:25-15:20 TTh, Pillsbury Hall 314, In Person Term Based; Heather Holcombe ; 4 cr.

### 1701 Modern Fiction

(Student Option; LITR)

53696 001 LEC, 11:15-12:30 MW, Anderson Hall 210, In Person Term Based; Ann Tandy-Treiber ; 3 cr.  
54607 002 LEC, 09:45-11:00 MW, Nicholson Hall 145, In Person Term Based; Samantha Crain ; 3 cr.  
54670 003 LEC, 18:00-20:30 W, Pillsbury Hall 314, In Person Term Based; Andrew Hamilton ; 3 cr.  
66790 004 LEC, 09:45-11:00 TTh, Pillsbury Hall 314, In Person Term Based; Heather Holcombe ; 3 cr.

### 3001W Textual Analysis: Methods

(A-F only; Prereq: [English major or minor or approved BIS or IDIM program with English area]WI)

53622 002 LEC, 10:10-12:05 TTh, Pillsbury Hall 214, In Person Term Based; Robert Stratton ; 4 cr.  
53717 003 LEC, 11:15-13:10 TTh, Cooke Hall 215, In Person Term Based; Zoe Rodine ; 4 cr.  
53905 001 LEC, 09:05-11:00 TTh, Nicholson Hall 115, In Person Term Based; Moinak Choudhury ; 4 cr.

### 3002 Modern Literary Criticism and Theory

(Student Option; )

53688 001 LEC, 14:30-15:45 TTh, Pillsbury Hall 311, In Person Term Based; Jani Scandura ; 3 cr.

### 3003W Historical Survey of British Literatures I

(Student Option; HIS,WI)

53122 001 LEC, 10:10-12:05 MW, Ford Hall 130, In Person Term Based; Robert Stratton ; 4 cr.  
54809 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Laura Price, Robert Stratton ; 4 cr.

### 3004W Historical Survey of British Literatures II

(Student Option; HIS,WI)

52525 002 LEC, 17:30-19:25 TTh, Pillsbury Hall 311, In Person Term Based; Samantha Crain ; 4 cr.

### 3005W Survey of American Literatures and Cultures I

(Student Option; DSJ,WI,LITR)

53557 001 LEC, 14:30-16:25 MW, Pillsbury Hall 311, In Person Term Based; Chris Kamerbeek ; 4 cr.  
55054 302 LEC, Completely Online; John Vanoverbeke ; 4 cr.  
55070 301 LEC, Completely Online; Stephen Ellis ; 4 cr.

### 3006V Honors: Survey of American Literatures and Cultures II

(A-F only; DSJ,WI,LITR)

55363 001 DIS, 11:15-13:10 TTh, Pillsbury Hall 314, In Person Term Based; Jani Scandura ; 4 cr.

### 3006W Survey of American Literatures and Cultures II

(Student Option; DSJ,WI,LITR)

52544 001 LEC, 13:00-14:15 MW, Armory Building 116, In Person Term Based; Megan Finch ; 4 cr.  
52545 002 DIS, 13:25-14:15 T, Pillsbury Hall 211, In Person Term Based; Mercedes Sheldon ; 4 cr.  
52546 003 DIS, 13:25-14:15 Th, Nicholson Hall 110, In Person Term Based; Mercedes Sheldon ; 4 cr.

### 3007 Shakespeare

(Student Option; LITR)

53669 001 LEC, 13:00-14:15 MW, Pillsbury Hall 214, In Person Term Based; Andrew Scheil ; 3 cr.  
53718 002 LEC, 14:30-15:45 MW, Pillsbury Hall 211, In Person Term Based; Ann Tandy-Treiber ; 3 cr.  
65790 003 LEC, 13:00-14:15 TTh, Pillsbury Hall 412, In Person Term Based; Andrew Elfenbein ; 3 cr.

### 3022 Science Fiction and Fantasy

(Student Option; )

54575 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Caleb Molstad ; 3 cr.

### 3023 Children's Literature

(Student Option; )

54799 001 LEC, 08:15-09:30 TTh, Pillsbury Hall 311, In Person Term Based; Clara Biesel ; 3 cr.

### 3025 The End of the World in Literature and History

(Student Option; HIS)

55007 001 DIS, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Meets With: 001 RELS 3627; John Watkins ; 3 cr.

### 3027W The Essay

(Student Option; WI)

53981 001 LEC, Completely Online; Matthew Harrison ; 4 cr.

### 3061 Literature and Music

(Student Option; LITR)

54830 001 DIS, 11:15-12:30 TTh, Pillsbury Hall 412, In Person Term Based; Chris Kamerbeek ; 3 cr.

### 3072 Witchcraft, Possession, Magic: Concepts in the Atlantic Supernatural, 1500-1800

(Student Option; LITR)

65791 001 DIS, 09:45-11:00 MW, Pillsbury Hall 314, In Person Term Based; Meets With: 001 MEST 3072; Rachel Trocchio ; 3 cr.

### 3331 LGBTQ Literature: Then and Now

(Student Option; DSJ,LITR)

65663 001 LEC, 16:00-17:15 MW, Pillsbury Hall 314, In Person Term Based; Meets With: 001 GLBT 3309; James Cihlar ; 3 cr.

### 3332 Black Times: Afrofuturism, Afropessimism and the Future (Ends) of the World

(Student Option; DSJ)

68610 001 LEC, 11:15-12:30 MW, Pillsbury Hall 314, In Person Term Based; Megan Finch ; 3 cr.

### 3501 Public Discourse: Coming to Terms with the Environment

(Student Option; ENV,LITR)

54677 001 LEC, 09:45-11:00 TTh, Pillsbury Hall 311, In Person Term Based; Daniel Philippon ; 3 cr.  
55365 002 LEC, 14:30-15:45 TTh, Pillsbury Hall 412, In Person Term Based; Melissa Licht ; 3 cr.

### 3506 Social Movements & Community Education

(A-F only; CIV)

54143 001 FWK, 14:30-15:45 MW, Pillsbury Hall 214, In Person Term Based; Eric Daigre ; 4 cr.

### 3507W Introduction to Chicana/o Literature

(Student Option; DSJ,WI,LITR)

54714 001 LEC, 00:00-12:00 , ONLINE, Completely Online; Meets With: 001 CHIC 3507W; Vanessa Ramos ; 3 cr.  
54715 002 LEC, 11:15-12:30 MW, Nicholson Hall 335, In Person Term Based; Meets With: 002 CHIC 3507W; Roy Guzman ; 3 cr.

### 3601 Analysis of the English Language

(Student Option; )

55364 001 DIS, 13:25-15:20 TTh, Burton Hall 123, In Person Term Based; Amanda Alexander ; 4 cr.

### 3704 Introduction to Editing and Publishing

(Student Option; )

53624 001 DIS, 17:45-19:35 MW, Pillsbury Hall 102, In Person Term Based; Lara Montes ; 4 cr.

### 3712 Literary Magazine Production Lab II

(A-F only; Prereq: [3711, instr consent] )

54225 001 LAB, 18:15-20:00 TTh, Pillsbury Hall 114, In Person Term Based; James Cihlar ; 4 cr.

### 3714 The Business of Publishing

(Student Option; )

68118 001 DIS, 14:30-17:00 M, Pillsbury Hall 102, In Person Term Based; Savannah Brooks ; 3 cr.

### 3741 Literacy and American Cultural

Diversity

(Student Option; LITR,DSJ)

53703 001 FWK, 13:00-14:15 MW, Burton Hall 123, In Person Term Based; Eric Daigre ; 4 cr.

### 3885V Honors Capstone Seminar in English

(A-F only; Prerequisites for Admission: Honors, Admission to ENGL 3885V also requires English major status and completion of a Critical Theories and Methods course (ENGL 3001W, ENGL 3002, ENGL 4003) or approved transfer course with a minimum grade of C-minus. Priority will be given to students with senior status who have completed the majority of the major requirements, as well as to students who plan to graduate in the term they are requesting to take the senior seminar.WI)

66552 001 LEC, 09:05-11:00 MW, Pillsbury Hall 212, In Person Term Based; Meets With: 001 ENGL 3885W; Nabil Matar ; 4 cr.  
66553 002 LEC, 14:30-16:25 TTh, Pillsbury Hall 211, In Person Term Based; Meets With: 002 ENGL 3885W; Timothy Brennan ; 4 cr.  
66554 003 LEC, 16:00-19:50 W, Twin Cities Remote, Completely Online; Meets With: 003 ENGL 3885W; Siobhan Craig ; 4 cr.

### 3885W Capstone Seminar in English

(A-F only; Prerequisites for Admission: Admission to ENGL 3885W requires English major status and completion of a Critical Theories and Methods course (ENGL 3001W, ENGL 3002, ENGL 4003) or approved transfer course with a minimum grade of C-minus. Priority will be given to students with senior status who have completed the majority of the major requirements, as well as to students who plan to graduate in the term they are requesting to take the senior seminar.WI)

66549 001 LEC, 09:05-11:00 MW, Pillsbury Hall 212, In Person Term Based; Meets With: 001 ENGL 3885W; Nabil Matar ; 4 cr.  
66550 002 LEC, 14:30-16:25 TTh, Pillsbury Hall 211, In Person Term Based; Meets With: 002 ENGL 3885W; Timothy Brennan ; 4 cr.  
66551 003 LEC, 16:00-19:50 W, Twin Cities Remote, Completely Online; Meets With: 003 ENGL 3885W; Siobhan Craig ; 4 cr.

### 3896 Internship for Academic Credit

(A-F only; Prereq: must be a formally declared English major registered in the College of Liberal Arts and have consent of instructor.)

55633 001 FWK, Independent/Directed Study; Terri Sutton ; 1-4 cr.  
55634 002 FWK, Independent/Directed Study; Rachel Drake ; 1-4 cr.

### 3993 Directed Study

(Student Option; Prereq-One 3xxx, [English major or minor or [BIS or IDIM or ICP] with English concentration], [jr or sr], instr consent, dept consent, college consent.)

53859 001 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.

### 3993W Directed Study- Honors Thesis in English

(A-F only; Prereq: Honors candidacy in English, consent of English honors advisorWI)

68998 001 IND, In Person Term Based; John Watkins ; 1-4 cr.  
68999 002 IND, In Person Term Based; Kirsten Jansen ; 1-4 cr.  
69000 003 IND, In Person Term Based; Eric Daigre ; 1-4 cr.  
69001 004 IND, In Person Term Based; Lianna Farber ; 1-4 cr.

### 4311 Asian American Literature and Drama

(A-F or Audit; DSJ,LITR)

65794 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 AAS 4311; Isadora Wagner ; 3 cr.

### 4613 Old English II

(Student Option; Prerequisite: "Beowulf" has been the object of intensive scholarly study; we will delve into the debates over the poem's date, genesis, manuscript and historical context and critical interpretation. Spending an entire semester studying one complex work can be an invaluable experience. Please contact the instructor for any questions concerning the prerequisite.)

55838 001 DIS, 16:00-18:30 M, Pillsbury Hall 211, In Person Term Based; Meets With: 001 MEST 4613; Andrew Scheil ; 3 cr.

### 5121 Readings in Early Modern Literature and Culture

(Student Option; Prereq: Grad student or instr consent)  
65796 001 LEC, 09:30-12:00 F, Pillsbury Hall 212, In Person  
Term Based; Meets With: 001 EMS 5500; Rachel Trocchio ;  
3 cr.

### 5701 Great River Review

(Student Option; )  
55018 001 LAB, 16:40-19:10 M, Pillsbury Hall 312, In  
Person Term Based; Meets With: 001 ENGW 5701; Peter  
Campion ; 4 cr.

### 5992 Directed Readings, Study, or Research

(Student Option; Prereq-Grad student or instr consent.)  
53860 001 IND, 00:00-00:00 , , Independent/Directed Study;  
Douglas Kearney ; 1-3 cr.  
53904 002 IND, 00:00-00:00 , , Independent/Directed Study;  
Kathryn Nuernberger ; 1-3 cr.  
54148 003 IND, 00:00-00:00 , , Independent/Directed Study;  
Kathryn Nuernberger ; 1-3 cr.  
54709 004 IND, 00:00-00:00 , , Independent/Directed Study;  
Kathryn Nuernberger ; 1-3 cr.  
69110 005 IND, In Person Term Based; James Cihlar ; 1-3 cr.

## English: Creative Writing (ENGW)

### 1101W Introduction to Creative Writing

(Student Option No Audit; Prereq: Students may not  
audit this courseLITR,WI)  
52556 001 LEC, Completely Online; May Lee-Yang ; 4 cr.  
54027 002 LAB, Completely Online; Said Farah ; 4 cr.  
54028 003 LAB, Completely Online; Matthew Pockrus ; 4 cr.  
54029 004 LAB, 11:15-13:10 M, Nicholson Hall 110, In  
Person Term Based; Ellie Garran ; 4 cr.  
54030 005 LAB, 13:25-15:20 M, Twin Cities Remote,  
Completely Online; May Lee-Yang ; 4 cr.  
54031 006 LAB, 14:30-16:25 M, Nicholson Hall 145, In  
Person Term Based; K Ho ; 4 cr.  
54032 007 LAB, 18:20-20:15 M, Twin Cities Remote,  
Completely Online; torrin greathouse ; 4 cr.  
54033 008 LAB, 09:05-11:00 Th, Nicholson Hall 110, In  
Person Term Based; Heidi Czerwiec ; 4 cr.  
54034 009 LAB, 11:15-13:10 Th, Nicholson Hall 110, In  
Person Term Based; Ellie Garran ; 4 cr.  
54035 010 LAB, 13:25-15:20 Th, Blegen Hall 240, In Person  
Term Based; Brian Malloy ; 4 cr.  
54711 011 LAB, 09:05-11:00 F, Pillsbury Hall 311, In Person  
Term Based; Brian Malloy ; 4 cr.  
54896 012 LAB, 10:10-12:05 F, Pillsbury Hall 314, In Person  
Term Based; Steven Blythe ; 4 cr.  
55135 013 LAB, 11:15-13:10 F, Pillsbury Hall 311, In Person  
Term Based; Ellie Garran ; 4 cr.  
68322 014 LAB, 10:10-12:05 M, Appleby Hall 319, In Person  
Term Based; Heidi Czerwiec ; 4 cr.

### 1102 Introduction to Fiction Writing

(Student Option No Audit; )  
52572 001 LEC, 18:20-20:50 M, Pillsbury Hall 314, In Person  
Term Based; Sruthi Narayanan ; 3 cr.  
53083 002 LEC, 14:30-15:20 MW, Pillsbury Hall 314, In  
Person Term Based; Brian Malloy ; 3 cr.  
53665 003 LEC, 08:15-09:30 TTh, Pillsbury Hall 314, In  
Person Term Based; Julian Robles ; 3 cr.

### 1103 Introduction to Poetry Writing

(Student Option No Audit; )  
53084 001 LEC, 11:15-12:30 MW, Pillsbury Hall 214, In  
Person Term Based; Douglas Kearney ; 3 cr.

### 1104 Introduction to Literary Nonfiction Writing

(Student Option No Audit; Prereq: Students not  
allowed to audit this course)  
66636 001 LEC, 11:15-12:30 TTh, Nicholson Hall 145, In  
Person Term Based; Sandesh Ghimire ; 3 cr.

### 1911W Eat, Write, Learn: Creative Writing in Spain

(A-F only; WI)  
66207 001 DIS, 13:00-14:15 TTh, Nicholson Hall 345, Study  
Abroad; Julie Schumacher ; 3 cr.

### 3102 Intermediate Fiction Writing

(Student Option No Audit; Prereq: [EngW 1101 OR 1102  
OR 1103 OR 1104], students cannot audit course)  
52573 001 LEC, 13:00-14:15 TTh, Nicholson Hall 355, In  
Person Term Based; Timothy Reynolds ; 3 cr.  
53085 002 LEC, 18:20-20:50 T, Pillsbury Hall 211, In Person  
Term Based; Asha Thanki ; 3 cr.

### 3104 Intermediate Poetry Writing

(Student Option No Audit; Prereq: [1101 or 1102 or  
1103 or 1104], students cannot audit course)  
52574 001 LEC, 16:00-18:30 M, Folwell Hall 5, In Person  
Term Based; Tarik Dobbs ; 3 cr.

### 3106 Intermediate Literary Nonfiction Writing

(Student Option No Audit; Prereq: [1101 or 1102 or  
1103 or 1104], students cannot audit course)  
53671 002 LEC, 11:15-12:30 TTh, Ford Hall 170, In Person  
Term Based; Emma Kaiser ; 3 cr.

### 3110 Topics in Creative Writing

(Student Option No Audit; Prereq: 1101 or 1102 or 1103  
or 1104 or dept consent)  
65991 002 LEC, 13:00-14:15 MW, Pillsbury Hall 314, In  
Person Term Based; Kao Yang ; 3 cr.  
66632 001 LEC, 14:30-17:00 W, Folwell Hall 122, In Person  
Term Based; May Lee-Yang ; 3 cr.

### 3885V Honors Capstone Seminar in Creative Writing

(A-F only; Prerequisites for Admission: (1) Honors  
candidacy in English, (2) English major status and  
completion of a Critical Theories and Methods course  
(ENGL 3001W, ENGL 3002, ENGL 4003) or approved  
transfer course with a minimum grade of C-minus, (3)  
completion of at least six credits of creative writing  
courses, including one intermediate (ENGW 3xxx-level)  
or advanced creative writing workshop, preferably  
in the genre of the ENGW 3885V workshop to which  
you are applying; and (4) submission of a creative  
writing sample. Admission is by permission of the  
instructor. Priority will be given to students with senior  
status who have completed the majority of the major  
requirements, as well as to students who plan to  
graduate in the term they are requesting to take the  
senior seminar.WI)  
66557 001 LEC, 16:00-19:50 M, Pillsbury Hall 212, In Person  
Term Based; Meets With: 001 ENGW 3885W; Heidi  
Czerwiec ; 4 cr.  
66558 002 LEC, 12:20-14:15 MW, Pillsbury Hall 212, In  
Person Term Based; Meets With: 002 ENGW 3885W; Peter  
Campion ; 4 cr.

### 3885W Capstone Seminar in Creative Writing

(A-F only; Prerequisites for Admission: (1) English  
major status and completion of a Critical Theories  
and Methods course (ENGL 3001W, ENGL 3002, ENGL  
4003) or approved transfer course with a minimum  
grade of C-minus; (2) completion of at least six  
credits of creative writing courses, including one  
intermediate (ENGW 3xxx-level) or advanced creative  
writing workshop, preferably in the genre of the ENGW  
3885W workshop to which you are applying; and (3)  
submission of a creative writing sample. Admission is  
by permission of the instructor. Priority will be given  
to students with senior status who have completed  
the majority of the major requirements, as well as to  
students who plan to graduate in the term they are  
requesting to take the capstone seminar. WI)  
66555 001 LEC, 16:00-19:50 M, Pillsbury Hall 212, In  
Person Term Based; Meets With: 001 ENGW 3885W; Heidi  
Czerwiec ; 4 cr.  
66556 002 LEC, 12:20-14:15 MW, Pillsbury Hall 212, In  
Person Term Based; Meets With: 002 ENGW 3885W; Peter  
Campion ; 4 cr.

### 3993W Directed Study- Honors Thesis in Creative Writing

(A-F only; Prereq: Honors candidacy in English,  
consent of English honors advisorWI)  
69002 001 IND, In Person Term Based; Julie Schumacher ;  
1-4 cr.

### 4205 Screenwriting

(Student Option No Audit; Prereq: One EngW or EngL  
3xxx course, [permission number available in creative  
writing office])  
54935 001 LEC, 18:20-20:50 Th, Twin Cities Remote,  
Completely Online; Miriam Queensen ; 3 cr.

### 5606W Literary Aspects of Journalism

(Student Option; WI)  
55593 001 LEC, 11:15-12:30 TTh, Murphy Hall 25, In Person  
Term Based; Meets With: 001 JOUR 5606W; Gayle  
Golden ; 3 cr.

### 5701 Great River Review

(Student Option; )  
55017 001 LAB, 16:40-19:10 M, Pillsbury Hall 312, In  
Person Term Based; Meets With: 001 ENGL 5701; Peter  
Campion ; 4 cr.

### 5993 Directed Study in Writing

(Student Option; Prereq-instr consent, dept consent,  
college consent.)  
52661 001 IND, Independent/Directed Study; Miriam  
Queensen ; 1-4 cr.  
53185 002 IND, Independent/Directed Study; Kathryn  
Nuernberger ; 1-4 cr.  
69060 003 IND, In Person Term Based; Kathryn  
Nuernberger ; 1-4 cr.

## Entomology (ENT)

### 1004 The Insects

(A-F only; )  
65830 001 LEC, Completely Online; Matt Petersen ; 3 cr.

### 1005 Insect Biology with Lab

(A-F only; BIOL)  
57348 001 LAB, Completely Online; Matt Petersen ; 4 cr.

### 3211 Insect Pest Management

(A-F only; )  
57242 001 LEC, 12:00-13:15 MW, Alderman Hall 405, In  
Person Term Based; Meets With: 001 ENT 5211; Sujaya  
Rao ; 3 cr.

### 3275 Insect-transmitted diseases of humans

(Student Option; )  
57243 001 LEC, 17:10-18:25 MW, Hodson Hall 495, In  
Person Term Based; Meets With: 001 ENT 5275; Ann  
Fallon ; 3 cr.

### 3294 Directed Research in Entomology

(Student Option; Prereq: department consent,  
instructor consent, no more than 6 credits of directed  
research counts towards CFANS major requirements. )  
66491 001 IND, In Person Term Based; Matt Petersen ; 1-4  
cr.  
69597 002 IND, In Person Term Based; Karen Mesce ; 1-4 cr.

### 3927 Data Management for Biologists

(A-F only; )  
66656 001 LEC, 15:00-16:55 M, , In Person Term Based;  
Meets With: 001 ENT 5927; Dan Cariveau ; 2 cr.

### 5011 Insect Structure and Function

(A-F or Audit; )  
57136 001 LEC, 10:15-11:30 TTh, Hodson Hall 490, In  
Person Term Based; Amelia Lindsey ; 4 cr.  
57137 002 LAB, 11:45-13:00 TTh, Hodson Hall 480, In  
Person Term Based; Amelia Lindsey ; 4 cr.

### 5051 Scientific Illustration of Insects

(Student Option; )  
57277 001 LEC, 17:10-20:40 MW, Hodson Hall 485,  
17:10-20:40 MW, Coffey Hall 50, In Person Term Based;  
Ralph Holzenthal ; 3 cr.

### 5126 Spatial and Temporal Analysis of Ecological Data

(A-F or Audit; )  
57262 002 LAB, 10:30-12:30 F, Lab TBA, In Person Term  
Based; Brian Aukema ; 3 cr.  
57263 001 LEC, 09:30-10:20 WF, Borlaug Hall 365, In  
Person Term Based; Brian Aukema ; 3 cr.

### 5211 Insect Pest Management

(Student Option; )  
57209 001 LEC, 12:00-13:15 MW, Alderman Hall 405, In  
Person Term Based; Meets With: 001 ENT 3211; Sujaya  
Rao ; 3 cr.

### 5275 Insect-transmitted diseases of humans

(Student Option; )  
57208 001 LEC, 17:10-18:25 MW, Hodson Hall 495, In  
Person Term Based; Meets With: 001 ENT 3275; Ann  
Fallon ; 3 cr.

### 5481 Invertebrate Neurobiology

(Student Option; )  
67618 001 LEC, 10:40-12:35 F, Hodson Hall 490, In Person  
Term Based; Karen Mesce ; 2 cr.

### 5927 Data Management for Biologists

(A-F only; )  
66655 001 LEC, 15:00-16:55 M, , In Person Term Based;  
Meets With: 001 ENT 3927; Dan Cariveau ; 2 cr.

## Environment Sci, Policy, Mgmt (ESPM)

### 1002 Transfer Orientation Seminar

(A-F or Audit; )

57203 001 LEC, 15:00-16:55 M, Skok Hall 100, 15:00-16:55 M, Skok Hall 100, 15:00-16:55 M, Skok Hall 100, In Person Term Based; Jessica Gutknecht ; 1 cr.

### 1011 Issues in the Environment

(Student Option; ENV)

56773 001 LEC, Completely Online; Peter Wragg, Charlie Blinn, Brandy Toner, Dylan Millet ; 3 cr.

### 1202 People, Land, and Water: Systems Under Stress

(A-F only; HIS)

57169 001 LEC, 13:30-14:45 TTh, Alderman Hall 415, In Person Term Based; Jay Bell, Patrick Nunnally ; 3 cr.

### 1425 Introduction to Weather and Climate

(Student Option; ENV,PHYS)

56749 001 LEC, 15:35-16:25 MWF, Twin Cities Remote, Completely Online; Meets With: 001 GEOG 1425; Peter Snyder ; 4 cr.

56957 002 LAB, 16:40-17:30 M, Twin Cities Remote, Completely Online; Meets With: 002 GEOG 1425; Peter Snyder ; 4 cr.

57009 003 LAB, 16:40-17:30 W, Twin Cities Remote, Completely Online; Meets With: 003 GEOG 1425; Peter Snyder ; 4 cr.

### 2021 Environmental Sciences: Integrated Problem Solving

(A-F or Audit; Prereq: 1011, ESPM major)

57013 001 LEC, 15:00-16:15 TTh, Biological Sciences Ctr 64, In Person Term Based; Peter Neff, Claudia Nanninga ; 3 cr.

### 3000 Seminar on Current Issues for ESPM

(A-F or Audit; Prereq: J)

68292 001 LEC, 10:40-11:30 F, Kaufert Laboratory 302, In Person Term Based; Matt Petersen ; 1 cr.

### 3011W Ethics in Natural Resources

(Student Option; WI,CIV)

56761 001 LEC, 13:30-14:45 TTh, Green Hall 110, 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 mathMATH)

57092 001 LEC, 11:45-13:00 MW, Borlaug Hall 335, In Person Term Based; John Zobel ; 4 cr.

57093 002 LAB, 16:05-18:00 W, Twin Cities Remote, Completely Online; John Zobel ; 4 cr.

57094 003 LAB, 16:05-18:00 W, Skok Hall 35, In Person Term Based; John Zobel ; 4 cr.

### 3031 Applied Global Positioning Systems for Geographic Information Systems

(A-F or Audit; Prereq: Intro GIS course)

56943 001 LEC, 10:40-12:35 W, Skok Hall 35, 10:40-11:30 M, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 5031; Andrew Jenks, Paul Bolstad ; 3 cr.

### 3051 Lands and Humans in World Cultures: the Past and the Present

(A-F only; GP)

57275 001 LEC, Completely Online; Kyungsoo Yoo ; 3 cr.  
57413 002 DIS, Completely Online; Kyungsoo Yoo ; 3 cr.

### 3111 Hydrology and Water Quality Field Methods

(A-F or Audit; )

56923 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)

56931 001 LEC, 10:15-11:30 TTh, Borlaug Hall 375, In Person Term Based; Tracy Twine ; 3 cr.

### 3202W Environmental Conflict Management, Leadership, and Planning

(A-F or Audit; WI)

56784 001 LEC, 09:35-11:30 W, Alderman Hall 405, 10:40-11:30 M, Alderman Hall 405, In Person Term Based; Meets With: 001 ESPM 5202; Kristen Nelson ; 3 cr.

### 3211 Survey, Measurement, and Modeling for Environmental Analysis

(Student Option; Prereq: ESPM 3012, FW 4001, STAT 3011, or equivalent)

57099 001 LEC, 11:45-13:00 TTh, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 5211; John Zobel ; 3 cr.

### 3221 Soil Conservation and Land-Use Management

(Student Option; Prereq: SOIL 2125 or instr consent)

56747 001 LEC, Primarily Online; Daniel Wheeler ; 3 cr.  
56748 002 DIS, 08:30-09:20 F, Borlaug Hall 375, In Person Term Based; Daniel Wheeler ; 3 cr.

### 3241W Natural Resource and Environmental Policy

(Student Option; CIV,WI,SOCS)

56751 001 LEC, 10:15-11:30 T, Green Hall 110, Partially Online; Meets With: 001 ESPM 5241; Forrest Fleischman ; 3 cr.

66832 002 LEC, 10:15-11:30 Th, Green Hall 110, Partially Online; Forrest Fleischman ; 3 cr.

### 3261 Economics and Natural Resources Management

(A-F or Audit; Prereq: MATH 1031 or equivalent.ENV,SOCS)

57139 001 LEC, 13:30-14:45 W, Green Hall 110, Partially Online; Meets With: 001 ESPM 5261; Mike Kilgore ; 4 cr.

### 3575 Wetlands

(Student Option; )

56940 001 LEC, 16:30-17:45 MW, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ESPM 5575; Susan Galatowitsch, Jay Bell ; 3 cr.

### 3601 Sustainable Housing--Community, Environment, and Technology

(A-F or Audit; TS)

56823 001 LEC, Completely Online; Aaron Hanson ; 3 cr.

### 3602 Regulations and Corporate Environmental Management

(A-F only; Prereq: APEC 1101 or ECON 1101 or 3261W)

57002 001 LEC, 16:00-18:30 M, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 ESPM 5602; Garth Hickle ; 3 cr.

### 3605 Recycling: Extending Raw Materials

(A-F only; TS)

57006 001 LEC, Primarily Online; Meets With: 001 ESPM 5605; Brett Barney ; 3 cr.

### 3607 Natural Resources Consumption and Sustainability

(A-F only; GP)

56772 001 LEC, 10:40-11:55 MW, Hodson Hall 495, In Person Term Based; Natalie Hunt ; 3 cr.

### 3777 Climate Change- Physics, Myths, Mysteries, and Uncertainties

(A-F only; Prerequisite required for this course, but first year calculus and one other first year science course is recommended.)

57181 001 LEC, 11:45-13:00 TTh, Twin Cities Remote, Completely Online; Timothy Griffis ; 3 cr.

### 3993 Directed Study

(Student Option; Prereq: Department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements)

56929 001 IND, 00:00-00:00 , , In Person Term Based; Charlie Blinn ; 1-4 cr.

57031 002 IND, 00:00-00:00 , , In Person Term Based; Dean Current ; 1-4 cr.

57033 003 IND, 00:00-00:00 , , In Person Term Based; Mae Davenport ; 1-4 cr.

57047 004 IND, 00:00-00:00 , , In Person Term Based; Christopher Edgar ; 1-4 cr.

57058 005 IND, 00:00-00:00 , , In Person Term Based; Forrest Fleischman ; 1-4 cr.

57108 006 IND, 00:00-00:00 , , In Person Term Based; Mike Kilgore ; 1-4 cr.

57350 007 IND, In Person Term Based; Joe Knight ; 1-4 cr.  
57351 009 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.

57352 008 IND, In Person Term Based; Ed Nater ; 1-4 cr.

57353 010 IND, In Person Term Based; Carl Rosen ; 1-4 cr.  
57354 011 IND, In Person Term Based; John Zobel ; 1-4 cr.

### 3994 Directed Research

(Student Option; Prereq: Department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

56930 001 IND, 00:00-00:00 , , In Person Term Based; Charlie Blinn ; 1-4 cr.

57110 010 IND, 00:00-00:00 , , In Person Term Based; Carl Rosen ; 1-4 cr.

57111 011 IND, 00:00-00:00 , , In Person Term Based; John Zobel ; 1-4 cr.

57355 002 IND, In Person Term Based; Dean Current ; 1-4 cr.

57356 003 IND, In Person Term Based; Mae Davenport ; 1-4 cr.

57357 004 IND, In Person Term Based; Christopher Edgar ; 1-4 cr.

57358 005 IND, In Person Term Based; Forrest Fleischman ; 1-4 cr.

57359 006 IND, In Person Term Based; Mike Kilgore ; 1-4 cr.  
57360 007 IND, In Person Term Based; Joe Knight ; 1-4 cr.

57361 008 IND, In Person Term Based; Ed Nater ; 1-4 cr.  
57362 009 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.

### 4021W Problem Solving: Environmental Review

(Student Option; Prereq: ESPM 2021 and jr or srWI)

56710 001 FWK, 13:30-14:45 MW, Ruttan Hall B25, In Person Term Based; Grace Wilson ; 4 cr.

### 4601 Environmental Pollution

(Student Option; Prereq: SOIL 2125, CHEM 1061 and 1062 or equiv, or permission)

57155 001 LEC, 10:15-11:30 MW, Ruttan Hall B22, In Person Term Based; Satoshi Ishii ; 3 cr.

### 4811 Environmental Interpretation

(A-F or Audit; )

56768 001 LEC, 17:10-20:10 T, Green Hall 203, 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)

56944 001 LEC, 10:40-12:35 W, Skok Hall 35, 10:40-11:30 M, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 3031; Andrew Jenks, Paul Bolstad ; 3 cr.

### 5111 Hydrology and Water Quality Field Methods

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

56924 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; )

56783 001 LEC, 09:35-11:30 W, Alderman Hall 405, 10:40-11:30 M, Alderman Hall 405, In Person Term Based; Meets With: 001 ESPM 3202W; Kristen Nelson ; 3 cr.

### 5211 Survey, Measurement, and Modeling for Environmental Analysis

(Student Option; )

57170 001 LEC, 11:45-13:00 TTh, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 3211; John Zobel ; 3 cr.

### 5241 Natural Resource and Environmental Policy

(Student Option; Prereq: Grad student or instr consent)

56780 001 LEC, 10:15-11:30 T, Green Hall 110, Partially Online; Meets With: 001 ESPM 3241W; Forrest Fleischman ; 3 cr.

### 5261 Economics and Natural Resources Management

(A-F or Audit; )

57140 001 LEC, 13:30-14:45 W, Green Hall 110, Partially Online; Meets With: 001 ESPM 3261; Mike Kilgore ; 4 cr.

### 5575 Wetlands

(Student Option; Prereq: 3575, [sr or grad student or instr consent])

57117 001 LEC, 16:30-17:45 MW, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ESPM 3575; Susan Galatowitsch, Jay Bell ; 3 cr.

**5602 Regulations and Corporate Environmental Management**

(A-F only; Prereq: APEC 1101 or ECON 1101)  
57003 001 LEC, 16:00-18:30 M, Biosystems & Ag Eng Bldg 308, In Person Term Based; Meets With: 001 ESPM 3602; Garth Hickie ; 3 cr.

**5605 Recycling: Extending Raw Materials Supplies**

(A-F only; )  
57007 001 LEC, Primarily Online; Meets With: 001 ESPM 3605; Brett Barney ; 3 cr.

**5811 Environmental Interpretation**

(A-F or Audit; )  
56911 001 LEC, 17:10-20:10 T, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 4811; Stephan Carlson ; 3 cr.

**Experimental and Clinical Phar (ECP)****Family Social Science (FSOS)****1101 Intimate Relationships**

(Student Option; SOCS)  
51163 001 LEC, 14:30-16:25 T, Smith Hall 100, In Person Term Based; Meets With: 001 FSOS 1101H; Tai Mendenhall ; 4 cr.  
51164 002 DIS, 14:30-16:25 Th, Civil Engineering Bldg 212, In Person Term Based; Meets With: 002 FSOS 1101H; 4 cr.  
51165 003 DIS, 14:30-16:25 Th, Bruininks Hall 131B, In Person Term Based; 4 cr.  
51287 004 DIS, 14:30-16:25 Th, Armory Building 202, In Person Term Based; 4 cr.  
52272 005 DIS, 14:30-16:25 Th, Peik Hall 28, In Person Term Based; 4 cr.

**1101H Intimate Relationships Honors**

(A-F only; SOCS)  
69353 001 LEC, 14:30-16:25 T, Smith Hall 100, In Person Term Based; Meets With: 001 FSOS 1101; Tai Mendenhall ; 4 cr.  
69354 002 DIS, 14:30-16:25 Th, Civil Engineering Bldg 212, In Person Term Based; Meets With: 002 FSOS 1101; 4 cr.

**1201 Human Development in Families:**

**Lifespan**  
(Student Option; DSJ,SOCS)  
51702 001 LEC, Completely Online; Athena Chan ; 4 cr.  
52273 002 LEC, Completely Online; Quin Morrow ; 4 cr.  
69606 003 LEC, Completely Online; Alyssa Maples ; 4 cr.

**1211 An Interdisciplinary Look at the Family in Multicultural America**

(A-F or Audit; SOCS,DSJ)  
52072 001 DIS, 09:05-11:00 MW, Appleby Hall 302, In Person Term Based; Margaret Kelly ; 4 cr.

**1301 Cash or Credit: You Need to Know**

(A-F only; )  
51503 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Lijun Li ; 1 cr.

**1461 Presentations at Work: Families, Communities, Nonprofits, and Schools**

(A-F or Audit; CIV)  
66481 001 DIS, 08:15-09:45 TTh, Bruininks Hall 117, In Person Term Based; Quin Morrow ; 3 cr.

**2101 Preparation for Working With Families**

(A-F or Audit; )  
51611 001 LEC, Completely Online; Chalandra Bryant ; 3 cr.

**2105 Methods in Family Research**

(Student Option; Prereq: STAT 3011 or PSTL 1004 or STAT 1001 or ESPY 3264 or ESPY 1261 or SOC 3811 or SOC 2550 or PSY 3801 or instr consent)  
51502 001 LEC, 10:15-11:30 MW, Kaufert Laboratory 302, In Person Term Based; Timothy Piehler ; 3 cr.

**2106 Family Resource Management**

(Student Option; )  
51981 001 LEC, Completely Online; Catherine Solheim ; 3 cr.

**2107 Preparation for Family and Community Engagement**

(Student Option; )

52099 001 DIS, 13:30-14:45 MW, McNeal Hall 395, In Person Term Based; Sara Axtell ; 3 cr.

**2191 Independent Study in Family Social Science**

(Student Option; Prereq: Soph, instr consent)  
51171 001 IND, 00:00-00:00 , Independent/Directed Study; Gerald August ; 1-4 cr.  
51329 002 IND, 00:00-00:00 , Independent/Directed Study; Sara Axtell ; 1-4 cr.  
51330 003 IND, 00:00-00:00 , Independent/Directed Study; Chalandra Bryant ; 1-4 cr.  
51331 004 IND, 00:00-00:00 , Independent/Directed Study; Bill Doherty ; 1-4 cr.  
51332 005 IND, 00:00-00:00 , Independent/Directed Study; Jodi Dworkin ; 1-4 cr.  
51334 007 IND, 00:00-00:00 , Independent/Directed Study; Tabitha Grier-Reed ; 1-4 cr.  
51335 008 IND, 00:00-00:00 , Independent/Directed Study; Steven Harris ; 1-4 cr.  
51336 009 IND, 00:00-00:00 , Independent/Directed Study; Stacey Horn ; 1-4 cr.  
51337 010 IND, 00:00-00:00 , Independent/Directed Study; Margaret Kelly ; 1-4 cr.  
51338 011 IND, 00:00-00:00 , Independent/Directed Study; Beth Magistad ; 1-4 cr.  
51339 012 IND, 00:00-00:00 , Independent/Directed Study; Jenifer McGuire ; 1-4 cr.  
51340 013 IND, 00:00-00:00 , Independent/Directed Study; Tai Mendenhall ; 1-4 cr.  
51341 014 IND, 00:00-00:00 , Independent/Directed Study; Cynthia Meyer ; 1-4 cr.  
51342 015 IND, 00:00-00:00 , Independent/Directed Study; Timothy Piehler ; 1-4 cr.  
51775 016 IND, 00:00-00:00 , Independent/Directed Study; Joyce Serido ; 1-4 cr.  
51791 017 IND, 00:00-00:00 , Independent/Directed Study; Catherine Solheim ; 1-4 cr.  
51792 018 IND, 00:00-00:00 , Independent/Directed Study; Marlene Stum ; 1-4 cr.  
51899 019 IND, 00:00-00:00 , Independent/Directed Study; Susan Walker ; 1-4 cr.  
51953 020 IND, 00:00-00:00 , Independent/Directed Study; Lindsey Weiler ; 1-4 cr.  
51954 021 IND, Independent/Directed Study; Armeta Wojciak ; 1-4 cr.  
52164 022 IND, In Person Term Based; Zha Xiong ; 1-4 cr.  
52167 023 IND, In Person Term Based; Virginia Solis Zuiker ; 1-4 cr.

**3101 Personal and Family Finances**

(Student Option No Audit; )  
51167 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Yiting Li ; 3 cr.

**3102 Family Systems and Diversity**

(Student Option; Prereq: At least soph or instr consentDSJ,SOCS)  
51166 001 LEC, 13:30-14:45 MW, Ruttan Hall 143, In Person Term Based; Zha Xiong ; 3 cr.  
65894 002 LEC, Completely Online; Sloan Okrey Anderson ; 3 cr.

**3105 Technology in Parenting and Family Relationships**

(Student Option; TS)  
52103 001 LEC, 11:45-13:00 TTh, Ruttan Hall B25, In Person Term Based; Susan Walker ; 3 cr.

**3191 Independent Study in Family Social Science**

(Student Option; Prereq: Jr, instr consent)  
51172 001 IND, 00:00-00:00 , Independent/Directed Study; Gerald August ; 1-5 cr.  
51343 002 IND, 00:00-00:00 , Independent/Directed Study; Sara Axtell ; 1-5 cr.  
51344 003 IND, 00:00-00:00 , Independent/Directed Study; Chalandra Bryant ; 1-5 cr.  
51345 004 IND, 00:00-00:00 , Independent/Directed Study; Bill Doherty ; 1-5 cr.  
51346 005 IND, 00:00-00:00 , Independent/Directed Study; Jodi Dworkin ; 1-5 cr.  
51348 007 IND, 00:00-00:00 , Independent/Directed Study; Tabitha Grier-Reed ; 1-5 cr.  
51349 008 IND, 00:00-00:00 , Independent/Directed Study; Steven Harris ; 1-5 cr.  
51350 009 IND, 00:00-00:00 , Independent/Directed Study; Stacey Horn ; 1-5 cr.  
51351 010 IND, 00:00-00:00 , Independent/Directed Study; Margaret Kelly ; 1-5 cr.  
51352 011 IND, 00:00-00:00 , Independent/Directed Study; Beth Magistad ; 1-5 cr.  
51353 012 IND, 00:00-00:00 , Independent/Directed Study; Jenifer McGuire ; 1-5 cr.

51354 013 IND, 00:00-00:00 , Independent/Directed Study; Tai Mendenhall ; 1-5 cr.  
51355 014 IND, 00:00-00:00 , Independent/Directed Study; Cynthia Meyer ; 1-5 cr.  
51356 015 IND, 00:00-00:00 , Independent/Directed Study; Timothy Piehler ; 1-5 cr.  
51776 016 IND, 00:00-00:00 , Independent/Directed Study; Joyce Serido ; 1-5 cr.  
51793 017 IND, 00:00-00:00 , Independent/Directed Study; Catherine Solheim ; 1-5 cr.  
51794 018 IND, 00:00-00:00 , Independent/Directed Study; Marlene Stum ; 1-5 cr.  
51900 019 IND, 00:00-00:00 , Independent/Directed Study; Susan Walker ; 1-5 cr.  
51955 020 IND, 00:00-00:00 , Independent/Directed Study; Lindsey Weiler ; 1-5 cr.  
51956 021 IND, Independent/Directed Study; Armeta Wojciak ; 1-5 cr.  
52165 022 IND, In Person Term Based; Zha Xiong ; 1-5 cr.  
52169 023 IND, In Person Term Based; Virginia Solis Zuiker ; 1-5 cr.

**3222W Our Addicted World: Going Beyond the Individual in Looking at the Addiction (A-F only; WI)**

52287 001 DIS, 14:30-15:45 MW, Burton Hall 120, In Person Term Based; Margaret Kelly ; 3 cr.

**3426 Alcohol and Drugs: Families and Culture**

(Student Option; )  
51168 001 LEC, Completely Online; Meets With: 001 FSOS 5426; Sara Axtell ; 3 cr.  
52275 002 LEC, Completely Online; Olivia Tomfohrde ; 3 cr.

**3429 Counseling Skills Practicum I**

(Student Option; )  
51924 001 LEC, 08:45-10:00 MW, McNeal Hall 316, In Person Term Based; Meets With: 001 FSOS 5429; Cynthia Meyer ; 3 cr.

**3431 Counseling Skills Practicum II**

(Student Option; )  
52100 001 LEC, 09:45-11:00 TTh, McNeal Hall 310, 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)  
51288 001 LEC, 11:45-13:00 TTh, Ruttan Hall 143, In Person Term Based; Cynthia Meyer ; 3 cr.

**4104 Family Psychology**

(Student Option; )  
51282 001 LEC, 11:45-13:00 TTh, Hodson Hall 490, In Person Term Based; Chalandra Bryant ; 3 cr.

**4107 Traumatic Stress and Resilience in Vulnerable Families Across the Lifespan**

(Student Option; )  
52101 001 LEC, 10:15-11:30 TTh, Hodson Hall 495, In Person Term Based; Tai Mendenhall ; 3 cr.

**4108 Understanding and Working with Immigrants and Refugee Families**

(Student Option; DSJ,SOCS)  
52104 001 LEC, 10:15-11:30 MW, Lrng & Environmental Sci 230, In Person Term Based; Zha Xiong ; 3 cr.

**4109W Family Theories**

(Student Option; WI)  
52180 001 LEC, 13:30-14:45 MW, Hodson Hall 490, In Person Term Based; Lindsey Weiler ; 3 cr.

**4111 Introduction to Family Therapy**

(Student Option; )  
52280 001 LEC, 10:15-17:45 M, Hodson Hall 490, In Person Term Based; Steven Harris ; 3 cr.

**4155 Parent-Child Relationships**

(A-F or Audit; )  
52277 001 LEC, Completely Online; Lindsey Weiler ; 3 cr.

**4158 Thailand: Global Change, Communities and Families**

(A-F only; GP)  
68575 001 DIS, 15:30-17:00 W, McNeal Hall 146, 15:30-17:00 W, McNeal Hall 146, 16:00-16:50 M, , Study Abroad; Catherine Solheim ; 3 cr.

**4191 Independent Study in Family Social Science**

(Student Option; Prereq: Sr, instr consent)

51278 001 IND, 00:00-00:00 , , Independent/Directed Study; Gerald August ; 1-4 cr.  
 51357 002 IND, 00:00-00:00 , , Independent/Directed Study; Sara Axtell ; 1-4 cr.  
 51358 003 IND, 00:00-00:00 , , Independent/Directed Study; Chalandra Bryant ; 1-4 cr.  
 51359 004 IND, 00:00-00:00 , , Independent/Directed Study; Bill Doherty ; 1-4 cr.  
 51360 005 IND, 00:00-00:00 , , Independent/Directed Study; Jodi Dworkin ; 1-4 cr.  
 51362 007 IND, 00:00-00:00 , , Independent/Directed Study; Tabitha Grier-Reed ; 1-4 cr.  
 51363 008 IND, 00:00-00:00 , , Independent/Directed Study; Steven Harris ; 1-4 cr.  
 51364 009 IND, 00:00-00:00 , , Independent/Directed Study; Stacey Horn ; 1-4 cr.  
 51365 010 IND, 00:00-00:00 , , Independent/Directed Study; Margaret Kelly ; 1-4 cr.  
 51366 011 IND, 00:00-00:00 , , Independent/Directed Study; Beth Magistad ; 1-4 cr.  
 51367 012 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-4 cr.  
 51368 013 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-4 cr.  
 51369 014 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-4 cr.  
 51370 015 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-4 cr.  
 51778 016 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-4 cr.  
 51797 017 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-4 cr.  
 51798 018 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-4 cr.  
 51902 019 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-4 cr.  
 51958 020 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-4 cr.  
 51959 021 IND, 00:00-00:00 , , Independent/Directed Study; Armeda Wojciak ; 1-4 cr.  
 52171 022 IND, In Person Term Based; Zha Xiong ; 1-4 cr.  
 52172 023 IND, In Person Term Based; Virginia Solis Zuiker ; 1-4 cr.

#### 4193 Directed Capstone Project

(A-F only; )

51633 001 IND, 00:00-00:00 , , Independent/Directed Study; Gerald August ; 1-4 cr.  
 51634 002 IND, 00:00-00:00 , , Independent/Directed Study; Chalandra Bryant ; 1-4 cr.  
 51635 003 IND, 00:00-00:00 , , Independent/Directed Study; Bill Doherty ; 1-4 cr.  
 51636 004 IND, 00:00-00:00 , , Independent/Directed Study; Jodi Dworkin ; 1-4 cr.  
 51638 006 IND, 00:00-00:00 , , Independent/Directed Study; Tabitha Grier-Reed ; 1-4 cr.  
 51639 007 IND, 00:00-00:00 , , Independent/Directed Study; Steven Harris ; 1-4 cr.  
 51640 008 IND, 00:00-00:00 , , Independent/Directed Study; Stacey Horn ; 1-4 cr.  
 51641 009 IND, 00:00-00:00 , , Independent/Directed Study; Beth Magistad ; 1-4 cr.  
 51642 010 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-4 cr.  
 51643 011 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-4 cr.  
 51644 012 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-4 cr.  
 51645 013 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-4 cr.  
 51646 014 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-4 cr.  
 51647 015 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-4 cr.  
 51777 016 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-4 cr.  
 51795 017 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-4 cr.  
 51796 018 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-4 cr.  
 51901 019 IND, 00:00-00:00 , , Independent/Directed Study; Armeda Wojciak ; 1-4 cr.  
 51957 020 IND, 00:00-00:00 , , Independent/Directed Study; Zha Xiong ; 1-4 cr.  
 52166 021 IND, In Person Term Based; Virginia Solis Zuiker ; 1-4 cr.

#### 4294 Research Internship

(Student Option; Prereq: [FSOS major, at least jr] or instr consent)

51173 001 IND, 00:00-00:00 , , Independent/Directed Study; Gerald August ; 1-4 cr.  
 51371 002 IND, 00:00-00:00 , , Independent/Directed Study; Sara Axtell ; 1-4 cr.  
 51372 003 IND, 00:00-00:00 , , Independent/Directed Study; Chalandra Bryant ; 1-4 cr.

51373 004 IND, 00:00-00:00 , , Independent/Directed Study; Bill Doherty ; 1-4 cr.  
 51374 005 IND, 00:00-00:00 , , Independent/Directed Study; Jodi Dworkin ; 1-4 cr.  
 51376 007 IND, 00:00-00:00 , , Independent/Directed Study; Steven Harris ; 1-4 cr.  
 51377 008 IND, 00:00-00:00 , , Independent/Directed Study; Stacey Horn ; 1-4 cr.  
 51378 009 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-4 cr.  
 51379 010 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-4 cr.  
 51380 011 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-4 cr.  
 51381 012 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-4 cr.  
 51382 013 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-4 cr.  
 51383 014 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-4 cr.  
 51384 015 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-4 cr.  
 51779 016 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-4 cr.  
 51799 017 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-4 cr.  
 51800 018 IND, 00:00-00:00 , , Independent/Directed Study; Armeda Wojciak ; 1-4 cr.  
 51903 019 IND, 00:00-00:00 , , Independent/Directed Study; Zha Xiong ; 1-4 cr.  
 51960 020 IND, Independent/Directed Study; Virginia Solis Zuiker ; 1-4 cr.

#### 4296 Field Study: Working With Families

(S-N or Audit; Prereq: 2101 or instr consent)

51161 001 FWK, 10:15-13:00 F, ONLINE BLENDED, 10:15-13:00 F, McNeal Hall 144, 10:15-13:00 F, McNeal Hall 144, 10:15-13:00 F, McNeal Hall 144, 10:15-13:00 F, McNeal Hall 144, 10:15-13:00 F, McNeal Hall 144, Partially Online; Sara Axtell ; 1-12 cr.

#### 5014 Quantitative Family Research

Methods I

(Student Option; Prereq: Grad student or instr consent)

52003 001 LEC, 10:15-11:30 TTh, Magrath Library 6, In Person Term Based; Timothy Piehler ; 3 cr.

#### 5015 Family Research Laboratory

(S-N or Audit; Prereq: Grad student or instr consent)

52004 001 LAB, 08:45-10:00 T, Lmg & Environmental Sci 220, In Person Term Based; Xiaoran Sun ; 1 cr.

#### 5193 Directed Study in Family Social

Science

(Student Option; Prereq: FSoS or grad student in related field)

51181 001 IND, 00:00-00:00 , , Independent/Directed Study; Gerald August ; 1-6 cr.  
 51398 002 IND, 00:00-00:00 , , Independent/Directed Study; Sara Axtell ; 1-6 cr.  
 51399 003 IND, 00:00-00:00 , , Independent/Directed Study; Chalandra Bryant ; 1-6 cr.  
 51400 004 IND, 00:00-00:00 , , Independent/Directed Study; Bill Doherty ; 1-6 cr.  
 51401 005 IND, 00:00-00:00 , , Independent/Directed Study; Jodi Dworkin ; 1-6 cr.  
 51403 007 IND, 00:00-00:00 , , Independent/Directed Study; Tabitha Grier-Reed ; 1-6 cr.  
 51404 008 IND, 00:00-00:00 , , Independent/Directed Study; Steven Harris ; 1-6 cr.  
 51405 009 IND, 00:00-00:00 , , Independent/Directed Study; Stacey Horn ; 1-6 cr.  
 51406 010 IND, 00:00-00:00 , , Independent/Directed Study; Beth Magistad ; 1-6 cr.  
 51407 011 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-6 cr.  
 51408 012 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-6 cr.  
 51409 013 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-6 cr.  
 51410 014 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-6 cr.  
 51411 015 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-6 cr.  
 51412 016 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-6 cr.  
 51568 017 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-6 cr.  
 51673 018 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-6 cr.  
 51904 019 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-6 cr.  
 51962 020 IND, 00:00-00:00 , , Independent/Directed Study; Armeda Wojciak ; 1-6 cr.  
 51963 021 IND, 00:00-00:00 , , Independent/Directed Study; Zha Xiong ; 1-6 cr.

52174 022 IND, In Person Term Based; Virginia Solis Zuiker ; 1-6 cr.

#### 5426 Alcohol and Drugs: Families and Culture

(Student Option; )

52088 001 LEC, Completely Online; Meets With: 001 FSOS 3426; Sara Axtell ; 3 cr.

#### 5429 Counseling Skills Practicum I

(Student Option; )

52179 001 LEC, 08:45-10:00 MW, McNeal Hall 316, In Person Term Based; Meets With: 001 FSOS 3429; Cynthia Meyer ; 3 cr.

#### 5937 Parent-Child Interaction

(A-F only; )

51801 001 LEC, 19:00-19:50 W, Twin Cities Remote, Completely Online; Beth Magistad ; 3 cr.

#### 5942 Diverse Family Experiences

(A-F only; )

51802 001 LEC, 20:00-20:50 W, Twin Cities Remote, Completely Online; Beth Magistad ; 3 cr.

#### 5946 Assessment and Evaluation in Parent Education

(A-F only; Prereq: 5944 or instr consent)

51803 001 DIS, 19:00-19:50 W, Twin Cities Remote, Completely Online; Shannon Rader ; 3 cr.

#### 5949 Student Teaching in Parent Education

(A-F only; Prereq: Application for student teaching; FSoS 5937, 5942, 5944, and 5945 or instr consent)

51804 001 FWK, 20:00-20:50 W, Twin Cities Remote, Completely Online; Shannon Rader ; 3 cr.

### Finance (FINA)

#### 3001 Finance Fundamentals

(A-F or Audit; Prereq: ACCT 2050, SCO 2550 or equivalent statistics course)

57714 002 LEC, 09:45-11:00 MW, Hanson Hall 1-104, In Person Term Based; Jacelly Cespedes ; 3 cr.  
 57715 003 LEC, 09:45-11:00 TTh, Hanson Hall 1-106, In Person Term Based; Jacelly Cespedes ; 3 cr.  
 57716 004 LEC, 14:30-15:45 TTh, Hanson Hall 1-104, In Person Term Based; Jeff Bailey ; 3 cr.  
 57759 006 LEC, 13:00-14:15 TTh, Hanson Hall 1-102, In Person Term Based; Ruoxi Tian ; 3 cr.  
 57783 020 LEC, 17:45-20:15 W, Hanson Hall 1-107, In Person Term Based; Hiroyuki Imai ; 3 cr.  
 57825 001 LEC, 08:15-09:30 MW, Hanson Hall 1-102, In Person Term Based; Jacelly Cespedes ; 3 cr.  
 57831 005 LEC, 13:00-14:15 MW, Hanson Hall 1-102, In Person Term Based; Lisa Kline ; 3 cr.  
 57952 007 LEC, 08:15-09:30 MW, Hanson Hall 1-106, In Person Term Based; Jeff Bailey ; 3 cr.  
 66018 008 LEC, 14:30-15:45 MW, Carlson School of Mgmt 2-215, In Person Term Based; Ralf Keysser ; 3 cr.

#### 4121 Financial Markets and Interest Rates

(A-F or Audit; Prereq: 3001 or 3001H CSOM major)

57725 001 LEC, 11:50-13:30 TTh, Hanson Hall 1-103, In Person Term Based; Hiroyuki Imai ; 2 cr.  
 57903 003 LEC, 13:45-15:25 MW, Hanson Hall 1-107, In Person Term Based; Thanh Le ; 2 cr.  
 58126 002 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-123, In Person Term Based; Thanh Le ; 2 cr.

#### 4122 Banks, Banking Services, and FinTech

(A-F or Audit; )

57726 002 LEC, 11:50-13:30 TTh, Hanson Hall 1-103, In Person Term Based; Andy Winton ; 2 cr.  
 57917 001 LEC, 09:55-11:35 TTh, Hanson Hall 1-103, In Person Term Based; Andy Winton ; 2 cr.

#### 4221 Principles of Corporate Finance

(A-F only; Prereq: 3001 or 3001H, CSOM major, math/ actuarial science major)

57867 003 LEC, 11:50-13:30 TTh, Hanson Hall 1-107, In Person Term Based; Richard Thakor ; 2 cr.  
 57868 001 LEC, 09:55-11:35 TTh, Hanson Hall 1-103, In Person Term Based; Richard Thakor ; 2 cr.  
 58099 002 LEC, 13:45-15:25 MW, Hanson Hall 1-107, In Person Term Based; Richard Thakor ; 2 cr.

#### 4424W Corporate Investment Decisions

(A-F or Audit; Prereq: 3001, 4121 or 4121H, 4321 or 4321H, 4422, 4522, CSOM majorWI)

57902 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-219, In Person Term Based; John Molloy ; 4 cr.  
 57947 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt L-118, In Person Term Based; John Molloy ; 4 cr.  
 57953 003 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-127, In Person Term Based; John Molloy ; 4 cr.  
 58137 004 LEC, 13:45-15:25 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 or 3001H, CSOM major)  
 57819 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Xiaojin Lin ; 2 cr.  
 57894 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Xiaojin Lin ; 2 cr.  
 58138 003 LEC, 09:55-11:35 TTh, Hanson Hall 1-107, In Person Term Based; Jeff Bailey ; 2 cr.

#### 4325 Behavioral Finance

(A-F only; Prereq: 4321 or 4321H)  
 57973 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-123, In Person Term Based; Stuart Webb ; 2 cr.  
 58013 001 LEC, 11:50-13:30 MW, Hanson Hall 1-107, In Person Term Based; Stuart Webb ; 2 cr.  
 66019 003 LEC, 11:50-13:30 TTh, Hanson Hall 1-107, In Person Term Based; Lisa Kline ; 2 cr.

#### 4329 Security Analysis Capstone

(A-F only; Prereq: 4121 or 4121H, 4321 or 4321H, 4422, 4522, ACCT 5100 or ACCT 5101)  
 57869 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-149, In Person Term Based; Nick Seeman ; 2 cr.

#### 4422 Financial Modeling

(A-F only; Prerequisite courses and provides students with significant practice building financial models to identify the free cash flow from and required investment in projects or firms for discounted cash flow and sensitivity analysis. Course presents net operating working capital requirements, Valuation with Free Cash Flow based methods, and the construction of three statement pro-forma cash flow projections. Prereq: FINA 4221, ACCT 5101, CSOM major)  
 57870 003 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-135, In Person Term Based; Jeff Bailey ; 2 cr.  
 57999 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-142, In Person Term Based; Jeff Bailey ; 2 cr.  
 58100 002 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-143, In Person Term Based; Jeff Bailey ; 2 cr.  
 66020 004 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-143, In Person Term Based; Eric White ; 2 cr.

#### 4522 Options & Derivatives I

(A-F only; Prereq: 3001 or 3001H or ApEc 3501, 4121 or 4121H, 4321 or 4321H (can be concurrent), CSOM major)  
 58139 001 LEC, 08:00-09:40 TTh, Hanson Hall 1-103, In Person Term Based; Stuart Webb ; 2 cr.  
 58140 002 LEC, 13:45-15:25 TTh, Hanson Hall 1-107, In Person Term Based; Robert Foldes ; 2 cr.  
 66021 003 LEC, 09:55-11:35 MW, Hanson Hall 1-107, In Person Term Based; Stuart Webb ; 2 cr.

#### 4529 Derivatives II Capstone

(A-F only; Prereq: 4522 or 4523)  
 57981 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Stuart Webb ; 2 cr.

#### 4621 The Global Economy (Macro)

(A-F only; Prereq: Fina 3001 or 3001H, CSOM major)  
 57871 001 LEC, 09:55-11:35 MW, Hanson Hall 1-107, In Person Term Based; Juliana Salomao ; 2 cr.  
 57872 002 LEC, 15:45-17:25 MW, Hanson Hall 1-107, In Person Term Based; Thanh Le ; 2 cr.

#### 4622 International Finance

(A-F only; Prereq: CSOM major, Fina 3001 or 3001H, 4121 or 4121H, 4221)  
 58000 001 LEC, 08:00-09:40 MW, Hanson Hall 1-107, In Person Term Based; Thanh Le ; 2 cr.

### Financial Mathematics (FM)

#### 5002 Preparation for Financial Mathematics II

(Student Option; Prereq: 5001, program director approval)  
 60628 001 LEC, 17:30-19:10 Th, Mechanical Engineering 102, In Person Term Based; Rina Ashkenazi ; 3 cr.

#### 5202 Ethics in Finance

(S-N only; )

68055 001 LEC, 19:30-20:20 Th, Vincent Hall 206, In Person Term Based; Gary Hatfield ; 1 cr.

#### 5212 Continuous Time Finance

(Student Option; )  
 68056 001 LEC, 17:30-20:20 T, Vincent Hall 207, In Person Term Based; Carlos Tolmasek ; 3 cr.

#### 5222 Statistical Methods in Finance

(Student Option; )  
 68054 001 LEC, 17:30-19:10 Th, Vincent Hall 207, In Person Term Based; Gary Hatfield ; 3 cr.

#### 5252 Financial Modeling II: Numerical Methods and Simulations

(Student Option; )  
 68057 001 LEC, 17:30-20:20 W, Vincent Hall 207, In Person Term Based; Christopher Prouty ; 3 cr.

#### 5422 Quantitative Hedge Fund Strategies

(Student Option; )  
 69016 001 LEC, 17:30-21:10 W, Vincent Hall 206, In Person Term Based; Jing Wang ; 2 cr.

#### 5443 Credit Risk Models

(Student Option; )  
 69010 001 LEC, 17:30-21:10 M, Keller Hall 3-125, In Person Term Based; Arkady Shemyakin ; 2 cr.

#### 5462 Market Microstructure

(Student Option; )  
 69013 001 LEC, 17:30-21:10 M, Vincent Hall 207, In Person Term Based; Hartmut Durchschlag ; 2 cr.

### Finnish (FIN)

#### 1002 Beginning Finnish II

(Student Option; Prereq: 1001)  
 52750 001 DIS, 14:30-15:20 TTh, Folwell Hall 118, 14:30-15:20 MW, ONLINE BLENDED, Partially Online; Meets With: 001 FIN 4002; Daniel Haataja ; 5 cr.

#### 1004 Intermediate Finnish II

(Student Option; Prereq: 1003)  
 53339 001 DIS, 15:35-16:25 TTh, Folwell Hall 118, 15:35-16:25 MW, ONLINE BLENDED, Partially Online; Meets With: 001 FIN 4004; Daniel Haataja ; 5 cr.

#### 3012 Advanced Finnish

(Student Option; Prereq: 3011 or 4011)  
 54231 001 DIS, 16:40-17:55 TTh, Folwell Hall 118, In Person Term Based; Meets With: 001 FIN 4012; Daniel Haataja ; 3 cr.

#### 4002 Beginning Finnish for Graduate Research II

(Student Option; )  
 53069 001 DIS, 14:30-15:20 TTh, Folwell Hall 118, 14:30-15:20 MW, ONLINE BLENDED, Partially Online; Meets With: 001 FIN 1002; Daniel Haataja ; 5 cr.

#### 4004 Intermediate Finnish for Graduate Research II

(Student Option; )  
 53340 001 DIS, 15:35-16:25 TTh, Folwell Hall 118, 15:35-16:25 MW, ONLINE BLENDED, Partially Online; Meets With: 001 FIN 1004; Daniel Haataja ; 5 cr.

#### 4012 Advanced Finnish for Graduate Research

(Student Option; )  
 54604 001 DIS, 16:40-17:55 TTh, Folwell Hall 118, In Person Term Based; Meets With: 001 FIN 3012; Daniel Haataja ; 3 cr.

### Fisheries and Wildlife (FW)

#### 2001W Introduction to Fisheries, Wildlife, and Conservation Biology

(Student Option; Prereq: BIOL 1001 or BIOL 1009ENV,WI)  
 57190 001 LEC, 11:45-13:00 TTh, Green Hall 110, In Person Term Based; Jim Perry ; 3 cr.

#### 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)

57014 001 LEC, 12:50-13:40 MWF, Borlaug Hall 365, In Person Term Based; Peter Sorensen ; 3 cr.

#### 3106 Vegetation Sampling for Habitat Assessments

(A-F or Audit; Prereq: [soph, jr, sr], FW major, must be taken concurrently with FW 3108)  
 66058 001 FWK, 15:00-17:00 F, Plant Growth Facility 140A/B, 13:00-17:00 MTWThF, Plant Growth Facility 140A/B, In Person Term Based; Susan Galatowitsch ; 1 cr.

#### 3108 Field Methods in Research and Conservation of Vertebrate Populations

(A-F or Audit; Prereq: [soph, jr, sr], FW major, must be taken concurrently with FW 3106)  
 66059 001 FWK, 12:00-15:00 F, Plant Growth Facility 140A/B, 08:00-12:00 MTWThF, Plant Growth Facility 174, In Person Term Based; Andrew Simons ; 3 cr.

#### 3293 Directed Study Fisheries

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
 57287 001 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
 57293 002 IND, In Person Term Based; Loren Miller ; 1-4 cr.  
 57294 003 IND, In Person Term Based; Ray Newman ; 1-4 cr.  
 57295 004 IND, In Person Term Based; Jim Perry ; 1-4 cr.  
 57296 005 IND, In Person Term Based; Andrew Simons ; 1-4 cr.  
 57297 006 IND, In Person Term Based; Peter Sorensen ; 1-4 cr.

#### 3294 Directed Research Fisheries

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)  
 57289 001 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
 57311 002 IND, In Person Term Based; Loren Miller ; 1-4 cr.  
 57312 003 IND, In Person Term Based; Ray Newman ; 1-4 cr.  
 57313 004 IND, In Person Term Based; Andrew Simons ; 1-4 cr.  
 57314 005 IND, In Person Term Based; Peter Sorensen ; 1-4 cr.

#### 3393 Directed Study Wildlife

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
 57286 001 IND, In Person Term Based; Todd Arnold ; 1-4 cr.  
 57298 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
 57299 003 IND, In Person Term Based; John Fieberg ; 1-4 cr.  
 57300 004 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
 57301 005 IND, In Person Term Based; Jim Perry ; 1-4 cr.  
 57416 006 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.

#### 3394 Directed Research Wildlife

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)  
 57290 001 IND, In Person Term Based; Todd Arnold ; 1-4 cr.  
 57315 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
 57316 003 IND, In Person Term Based; John Fieberg ; 1-4 cr.  
 57317 004 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
 57417 005 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.

#### 3480 Topics in Fisheries, Wildlife & Conservation Biology

(Student Option; )  
 69143 001 LEC, 13:00-15:00 W, Alderman Hall 415, In Person Term Based; 1-4 cr.

#### 3493 Directed Study Conservation Biology

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
 57288 001 IND, In Person Term Based; Robert Blair ; 1-4 cr.  
 57302 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
 57303 003 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.  
 57304 004 IND, In Person Term Based; Susan Galatowitsch ; 1-4 cr.  
 57305 005 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.

57306 006 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57307 007 IND, In Person Term Based; Jim Perry ; 1-4 cr.

### 3494 Directed Research Conservation

#### Biology

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

57291 001 IND, In Person Term Based; Robert Blair ; 1-4 cr.  
57318 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
57319 003 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.  
57320 004 IND, In Person Term Based; Susan Galatowitsch ; 1-4 cr.  
57321 005 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
57322 006 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57323 007 IND, In Person Term Based; Jim Perry ; 1-4 cr.

### 3925 Human Dimensions of Fisheries and Wildlife Management

(A-F only; )

57132 001 LEC, 17:10-18:25 TTh, Twin Cities Remote, Completely Online; Ellen Candler ; 3 cr.

### 4102 Principles of Conservation Biology

(Student Option; Prereq: introductory biology course/ENV)

57004 001 LEC, 11:45-13:00 TTh, Biological Sciences Ctr 64, In Person Term Based; Sushma Reddy ; 3 cr.

### 4107 Principles of Fisheries Science and Management

(A-F only; Prerequisite: Intro biology course, [jr or sr])

57162 001 LEC, 09:35-10:25 MWF, Hodson Hall 490, In Person Term Based; Ray Newman ; 3 cr.

### 4301 Conservation Genetics

(A-F or Audit; )

57231 001 LEC, 10:15-11:30 TTh, Kaufert Laboratory 302, In Person Term Based; Kenneth Kozak ; 3 cr.

### 4629 Wildlife Care and Handling Externship

(A-F only; )

57172 001 DIS, 09:00-11:00 Th, Ruttan Hall B26, In Person Term Based; Jim Perry ; 3 cr.

### 5051 Analysis of Populations

(Student Option; Prereq: [4001 or STAT 3011 or ESPM 3012], [EEB 3407 or EEB 3408W or EEB 3807], Senior or grad student)

56939 001 LEC, 15:00-16:55 TTh, Twin Cities Remote, Completely Online; Todd Arnold ; 4 cr.

### 5293 Directed Study Fisheries

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57379 001 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
57403 002 IND, In Person Term Based; Loren Miller ; 1-4 cr.  
57404 003 IND, In Person Term Based; Ray Newman ; 1-4 cr.  
57405 004 IND, In Person Term Based; Jim Perry ; 1-4 cr.  
57406 005 IND, In Person Term Based; Andrew Simons ; 1-4 cr.  
57407 006 IND, In Person Term Based; Peter Sorensen ; 1-4 cr.

### 5294 Directed Research Fisheries

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

57387 001 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
57388 002 IND, In Person Term Based; Loren Miller ; 1-4 cr.  
57389 003 IND, In Person Term Based; Ray Newman ; 1-4 cr.  
57390 004 IND, In Person Term Based; Andrew Simons ; 1-4 cr.  
57391 005 IND, In Person Term Based; Peter Sorensen ; 1-4 cr.

### 5393 Directed Study Wildlife

(Student Option; )

57380 001 IND, In Person Term Based; David Andersen ; 1-4 cr.  
57408 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
57409 003 IND, In Person Term Based; John Fieberg ; 1-4 cr.

57410 004 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57411 005 IND, In Person Term Based; Jim Perry ; 1-4 cr.  
57418 006 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.

### 5394 Directed Research Wildlife

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

57392 001 IND, In Person Term Based; David Andersen ; 1-4 cr.  
57393 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
57394 003 IND, In Person Term Based; John Fieberg ; 1-4 cr.  
57395 004 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57419 005 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.

### 5493 Directed Study Conservation Biology

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57381 001 IND, In Person Term Based; Robert Blair ; 1-4 cr.  
57382 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
57383 003 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.  
57384 004 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
57385 005 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57386 006 IND, In Person Term Based; Jim Perry ; 1-4 cr.

### 5494 Directed Research Conservation

#### Biology

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

57396 001 IND, In Person Term Based; Robert Blair ; 1-4 cr.  
57397 002 IND, In Person Term Based; Joseph Bump ; 1-4 cr.  
57398 003 IND, In Person Term Based; Francie Cuthbert ; 1-4 cr.  
57399 004 IND, In Person Term Based; Susan Galatowitsch ; 1-4 cr.  
57400 005 IND, In Person Term Based; Gretchen Hansen ; 1-4 cr.  
57401 006 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57402 007 IND, In Person Term Based; Jim Perry ; 1-4 cr.

## Food Science and Nutrition (FSCN)

### 1011 Science of Food and Cooking

(Student Option; PHY5)

57082 001 LEC, 11:45-13:00 TTh, Food Science & Nutrition 15, In Person Term Based; Kendra Kauppi ; 4 cr.  
57083 002 LAB, 09:35-11:30 T, McNeal Hall 126, In Person Term Based; Kendra Kauppi ; 4 cr.  
57084 003 LAB, 13:15-15:10 T, McNeal Hall 126, In Person Term Based; Kendra Kauppi ; 4 cr.  
57085 004 LAB, 09:35-11:30 Th, McNeal Hall 126, In Person Term Based; Kendra Kauppi ; 4 cr.  
57086 005 LAB, 13:15-15:10 Th, McNeal Hall 126, In Person Term Based; Kendra Kauppi ; 4 cr.

### 1012 Sports Nutrition

(Student Option; )

57178 001 LEC, Completely Online; Renata Korczak ; 3 cr.

### 1013 Dietary Supplements: scientific, regulatory, and cultural aspects

(Student Option; CIV)

66855 001 LEC, Completely Online; Robin Schow ; 3 cr.

### 1102 Food: Safety, Risks, and Technology

(Student Option No Audit; CIV)

56731 001 LEC, 15:00-16:15 TTh, Food Science & Nutrition 15, In Person Term Based; Eleanore Hansen ; 3 cr.

### 1112 Principles of Nutrition

(Student Option; Prerequisites: High school biology and chemistry/TS)

56732 002 LEC, 16:00-17:15 MW, Bruininks Hall 220, In Person Term Based; Aimee Tritt ; 3 cr.  
57148 001 LEC, 08:00-09:15 MW, Bruininks Hall 230, In Person Term Based; Robin Schow ; 3 cr.  
68010 003 LEC, Completely Online; Corrie Marion ; 3 cr.

### 2021 Introductory Microbiology

(A-F only; )

57050 001 LEC, 08:30-09:20 MWF, Andrew Boss Laboratory 125, In Person Term Based; Steven Bowden, Belal J Muhialdin Mula Hasan ; 4 cr.  
57051 002 LAB, 14:45-16:40 T, Food Science & Nutrition 218, In Person Term Based; Steven Bowden, Belal J Muhialdin Mula Hasan ; 4 cr.  
57052 003 LAB, 14:45-16:40 W, Food Science & Nutrition 218, In Person Term Based; Steven Bowden, Belal J Muhialdin Mula Hasan ; 4 cr.  
57089 004 LAB, 14:45-16:40 Th, Food Science & Nutrition 218, In Person Term Based; Steven Bowden, Belal J Muhialdin Mula Hasan ; 4 cr.

### 2512 Food Customs and Culture

(A-F or Audit; GP)

67773 001 LEC, 10:15-11:30 TTh, Food Science & Nutrition 15, In Person Term Based; Francine Overcash, Job Ubbink ; 3 cr.

### 3612 Life Cycle Nutrition

(Student Option; )

57130 001 LEC, 09:35-10:25 MWF, Andrew Boss Laboratory 125, In Person Term Based; Aimee Tritt ; 3 cr.

### 3993 Directed Study

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57444 001 IND, In Person Term Based; 1-4 cr.

### 3994 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )

57445 001 IND, In Person Term Based; 1-4 cr.

### 4113 Ingredient Functionality and Applications in Food

(Student Option; )

57414 001 LEC, 16:05-16:55 WF, Food Science & Nutrition 15, In Person Term Based; George Annor, Serpil Metin, Christine Nowakowski ; 2 cr.

### 4121 Food Microbiology

(Student Option No Audit; Prereq: BIOC 3021, [2021 or VBS 2032 or MICB 3301])

56733 001 LEC, 10:40-11:30 WF, Andrew Boss Laboratory 125, In Person Term Based; Fernando Sampedro ; 3 cr.  
57043 002 LAB, 10:40-12:35 TTh, Food Science & Nutrition 218, In Person Term Based; 3 cr.  
57149 003 LAB, 08:30-10:25 TTh, Food Science & Nutrition 218, In Person Term Based; Fernando Sampedro ; 3 cr.

### 4335 Food Processing Fundamentals II

(A-F only; )

68041 001 LEC, 11:45-12:35 WF, Andrew Boss Laboratory 125, In Person Term Based; Kumar Mallikarjunan ; 3 cr.  
68042 002 LAB, 12:50-15:50 M, , In Person Term Based; Kumar Mallikarjunan ; 3 cr.

### 4349 Food Science Capstone

(A-F only; Prereq: 4112, 4121, 4131, 4312, 4332, BBE 4744, Food Science Major, senior)

57044 001 LAB, 15:30-18:30 TTh, Ruttan Hall B36, In Person Term Based; Kumar Mallikarjunan ; 2 cr.

### 4482 Sensory Evaluation of Food Quality

(A-F only; )

68050 001 LEC, 12:50-13:40 W, McNeal Hall 10, In Person Term Based; Zata Vickers ; 2 cr.  
68051 002 LAB, 15:00-15:50 W, Magrath Library 8, 09:35-10:25 W, McNeal Hall 126, In Person Term Based; Zata Vickers ; 2 cr.  
68052 003 LAB, 13:55-14:45 W, Magrath Library 8, 11:35-12:25 W, McNeal Hall 126, In Person Term Based; Zata Vickers ; 2 cr.

### 4612W Advanced Human Nutrition

(Student Option; Prerequisites: FSCN 1112, CHEM 1062 and CHEM 1066 Enforced Prerequisites (students cannot register without the following): BioC 3021 or PHSL 3051 or ANSC 3301 or BIOL 3211 or Instructor Consent/WI)

57127 001 LEC, 10:40-12:35 MW, Food Science & Nutrition 15, In Person Term Based; Joanne Slavin ; 4 cr.

### 4613 Experimental Nutrition

(Student Option; Prerequisites: BIOC 3021, STAT 3011, Nutrition Major, or Instructor Consent)

56734 002 LAB, 12:50-15:50 M, Andrew Boss Laboratory 135, In Person Term Based; Dan Gallaher ; 2 cr.

56812 001 LEC, 11:45-12:35 F, Food Science & Nutrition 15, In Person Term Based; Dan Gallaher ; 2 cr.  
56815 003 LAB, 12:50-15:50 W, Andrew Boss Laboratory 135, In Person Term Based; Dan Gallaher ; 2 cr.  
57041 005 LAB, 09:35-12:35 T, Andrew Boss Laboratory 135, In Person Term Based; Dan Gallaher ; 2 cr.

#### 4614W Community Nutrition (A-F only; DSJ,WI,SOCS)

56735 001 LEC, 13:30-14:45 TTh, Food Science & Nutrition 15, In Person Term Based; Francine Overcash ; 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])  
57054 001 LEC, 15:00-16:15 MW, Ruttan Hall 143, In Person Term Based; Meets With: 001 NUTR 5627; Chi Chen ; 3 cr.

#### 4666 Medical Nutrition Therapy II (A-F or Audit; )

56736 001 LEC, 15:00-16:15 TTh, Ruttan Hall B45, In Person Term Based; Kathleen Hill Gallant ; 3 cr.  
66165 002 LEC, 15:00-16:15 TTh, Twin Cities Remote, Completely Online; Kathleen Hill Gallant, Sara Cannon ; 3 cr.

#### 4732 Food and Nutrition Management (A-F or Audit; Prereq: 3732)

56737 001 LEC, 08:05-09:20 TTh, Andrew Boss Laboratory 125, In Person Term Based; Len Marquart ; 3 cr.

#### 5481 Sensory Evaluation of Food Quality (Student Option; Prereq: 3102, STAT 3011)

68314 001 LEC, 12:50-13:40 W, Ruttan Hall B36, In Person Term Based; Zata Vickers ; 2 cr.  
68315 002 LAB, 13:55-14:45 W, , 11:35-12:25 W, , In Person Term Based; Zata Vickers ; 2 cr.

#### 5531 Grains: Introduction to Cereal Chemistry and Technology

(Student Option; Prereq: Biol 1009, Chem 1022)  
57433 001 LEC, 18:00-19:50 W, Food Science & Nutrition 15, In Person Term Based; George Annor ; 2 cr.

#### 5601 Management of Eating Disorders (Student Option; Prereq: Junior, senior or graduate student in nutrition or health related program or instructor consent.)

57088 001 LEC, 17:30-20:10 T, Ruttan Hall B26, In Person Term Based; Jillian Lampert ; 3 cr.

#### 5993 Directed Study

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
57442 001 IND, In Person Term Based; 1-4 cr.  
69258 002 IND, Completely Online; Kathleen Hill Gallant ; 1-4 cr.

#### 5994 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)  
57443 001 IND, In Person Term Based; 1-4 cr.

### Food Systems (FDSY)

#### 2101 Plant Production Systems

(Student Option; Prereq: College level general biology course or Hort 1001 or instr consent)  
57114 001 LEC, 10:15-11:30 TTh, Twin Cities Remote, Completely Online; Thomas Michaels, Mary Brakke ; 3 cr.

#### 2102 Diversity of Agricultural Production Systems (A-F only; )

68001 001 LEC, 15:00-17:00 T, No Room Required, In Person Term Based; Bradley Heins, Lee Johnston, Yuzhi Li ; 3 cr.

#### 3093 Directed Study

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)  
57473 001 IND, In Person Term Based; 1-4 cr.

#### 3094 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

57477 001 IND, In Person Term Based; 1-4 cr.

#### 4101 Holistic Approaches to Improving Food Systems Sustainability (A-F only; Prerequisites: FDSY 1016W and APEC 3202; or instructor consent)

57125 001 LEC, 15:00-17:30 T, Alderman Hall 405, In Person Term Based; Julie Grossman ; 3 cr.

### Foreign Study (FOST)

### 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)  
56926 001 LEC, 16:05-18:00 M, Green Hall 110, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
56927 002 LAB, 16:05-18:00 T, Skok Hall 35, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
56937 003 LAB, 18:00-20:00 M, Skok Hall 35, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
56955 004 LAB, 12:50-14:45 W, Skok Hall 35, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
57032 005 LAB, 10:40-12:35 T, Skok Hall 35, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
57079 006 LAB, 00:00-00:00 , ONLINE, Completely Online; Paul Bolstad, Andrew Jenks ; 4 cr.  
57128 020 LEC, 00:00-00:00 , ONLINE, Completely Online; Andrew Jenks, Paul Bolstad ; 4 cr.  
57129 021 LAB, 00:00-00:00 , ONLINE, Completely Online; Andrew Jenks, Paul Bolstad ; 4 cr.

#### 3203 Forest Fire and Disturbance Ecology

(A-F or Audit; )  
56914 001 LEC, 08:45-10:00 TTh, Skok Hall 100, 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)  
56709 001 LEC, 11:45-12:35 MWF, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5218; Christopher Edgar ; 3 cr.

#### 3262 Remote Sensing and Geospatial Analysis of Natural Resources and Environment

(Student Option; Prereq: None, but prior coursework in GIS and Statistics is recommended.)  
57282 001 LEC, Completely Online; Meets With: 001 FNRM 5262; Chad Babcock ; 3 cr.  
57283 002 LAB, Completely Online; Meets With: 002 FNRM 5262; Chad Babcock ; 3 cr.  
66852 003 LAB, 15:00-16:55 Th, Skok Hall 35, In Person Term Based; Meets With: 003 FNRM 5262; Chad Babcock ; 3 cr.

#### 3362 Drones: Data, Analysis, and Operations

(Student Option; Prereq: None, but prior coursework in GIS is recommended.)  
57202 001 LEC, 09:35-11:30 F, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 5362; Joe Knight, Daniel Heins ; 3 cr.

#### 3431 Timber Harvesting and Road Planning (Student Option; Prereq: FNRM 3411 or instr consent)

56729 001 LEC, 13:55-14:45 MW, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5431; Charlie Blinn ; 2 cr.

#### 3462 Advanced Remote Sensing and Geospatial Analysis

(Student Option; Prereq: FNRM 3262/5262 or instr consent)  
57200 001 LEC, 10:15-11:30 TTh, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 5462; Chad Babcock, Joe Knight ; 3 cr.

#### 3501 Arboriculture: Selection and Maintenance of Trees

(Student Option; )  
56727 001 LEC, 13:30-14:45 TTh, Green Hall 203, In Person Term Based; Eric North ; 3 cr.

#### 3993 Directed Study

(Student Option; Prereq: Department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements )  
56786 001 IND, 00:00-00:00 , , In Person Term Based; Chad Babcock ; 1-4 cr.  
56787 002 IND, 00:00-00:00 , , In Person Term Based; Charlie Blinn ; 1-4 cr.  
56788 005 IND, 00:00-00:00 , , In Person Term Based; Dean Current ; 1-4 cr.  
56789 006 IND, 00:00-00:00 , , In Person Term Based; Mae Davenport ; 1-4 cr.  
56790 007 IND, 00:00-00:00 , , In Person Term Based; Andrew David ; 1-4 cr.  
56791 008 IND, 00:00-00:00 , , In Person Term Based; Mike Dockry ; 1-4 cr.  
56792 009 IND, 00:00-00:00 , , In Person Term Based; Christopher Edgar ; 1-4 cr.  
56794 014 IND, 00:00-00:00 , , In Person Term Based; Joe Knight ; 1-4 cr.  
56795 015 IND, 00:00-00:00 , , In Person Term Based; Rebecca Montgomery ; 1-4 cr.  
56796 018 IND, 00:00-00:00 , , In Person Term Based; Peter Reich ; 1-4 cr.  
56797 019 IND, 00:00-00:00 , , In Person Term Based; Matt Russell ; 1-4 cr.  
56798 020 IND, 00:00-00:00 , , In Person Term Based; Ingrid Schneider ; 1-4 cr.  
56799 021 IND, 00:00-00:00 , , In Person Term Based; Marcella Windmuller-Campione ; 1-4 cr.  
56819 011 IND, 00:00-00:00 , , In Person Term Based; Lee Frelich ; 1-4 cr.  
56820 013 IND, 00:00-00:00 , , In Person Term Based; Mike Kilgore ; 1-4 cr.  
56821 016 IND, 00:00-00:00 , , In Person Term Based; Kristen Nelson ; 1-4 cr.  
56941 010 IND, 00:00-00:00 , , In Person Term Based; Forrest Fleischman ; 1-4 cr.  
57005 017 IND, 00:00-00:00 , , In Person Term Based; Eric North ; 1-4 cr.  
57008 004 IND, 00:00-00:00 , , In Person Term Based; Stephan Carlson ; 1-4 cr.  
57061 022 IND, 00:00-00:00 , , In Person Term Based; John Zobel ; 1-4 cr.  
57179 003 IND, In Person Term Based; Paul Bolstad ; 1-4 cr.

#### 3994 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)  
57324 001 IND, In Person Term Based; Chad Babcock ; 1-4 cr.  
57325 002 IND, In Person Term Based; Charlie Blinn ; 1-4 cr.  
57326 003 IND, In Person Term Based; Paul Bolstad ; 1-4 cr.  
57327 004 IND, In Person Term Based; Stephan Carlson ; 1-4 cr.  
57329 005 IND, In Person Term Based; Dean Current ; 1-4 cr.  
57330 006 IND, In Person Term Based; Mae Davenport ; 1-4 cr.  
57331 007 IND, In Person Term Based; Andrew David ; 1-4 cr.  
57332 008 IND, In Person Term Based; Mike Dockry ; 1-4 cr.  
57333 009 IND, In Person Term Based; Christopher Edgar ; 1-4 cr.  
57334 010 IND, In Person Term Based; Forrest Fleischman ; 1-4 cr.  
57335 011 IND, In Person Term Based; Lee Frelich ; 1-4 cr.  
57336 012 IND, In Person Term Based; 1-4 cr.  
57337 013 IND, In Person Term Based; Mike Kilgore ; 1-4 cr.  
57338 014 IND, In Person Term Based; Joe Knight ; 1-4 cr.  
57339 016 IND, In Person Term Based; Kristen Nelson ; 1-4 cr.  
57340 015 IND, In Person Term Based; Rebecca Montgomery ; 1-4 cr.  
57341 017 IND, In Person Term Based; Eric North ; 1-4 cr.  
57342 018 IND, In Person Term Based; Peter Reich ; 1-4 cr.  
57343 019 IND, In Person Term Based; Matt Russell ; 1-4 cr.  
57344 020 IND, In Person Term Based; Ingrid Schneider ; 1-4 cr.  
57345 021 IND, In Person Term Based; Marcella Windmuller-Campione ; 1-4 cr.  
57346 022 IND, In Person Term Based; John Zobel ; 1-4 cr.

#### 4232W Managing Recreational Lands

(A-F or Audit; WI)  
56906 001 LEC, 11:45-13:00 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 FNRM 5232; Ingrid Schneider ; 4 cr.  
56907 002 DIS, 13:55-14:45 Th, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 FNRM 5232; Ingrid Schneider ; 4 cr.

#### 4501 Urban Forest Management: Managing Greenspaces for People

**(Student Option; )**

56921 001 LEC, 14:00-15:15 MW, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 5501; Eric North ; 3 cr.

**4511 Field Silviculture****(A-F only; Prereq: FNRM 3411)**

66364 001 LAB, In Person Term Based; Marcella Windmuller-Campione ; 2 cr.

**4515 Field Resource Survey****(Student Option; Prereq: FNRM 3218 or instructor consent)**

66365 001 LAB, In Person Term Based; John Zobel ; 1 cr.

**4521 Field Timber Harvesting and Road Planning****(Student Option; Prereq: FNRM 3411 and 3431, or instructor consent.)**

66366 001 LAB, In Person Term Based; Charlie Blinn ; 2 cr.

**5203 Forest Fire and Disturbance Ecology****(A-F or Audit; Prereq: Grad student or instr consent)**

56915 001 LEC, 08:45-10:00 TTh, Skok Hall 100, 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)**

56908 001 LEC, 11:45-13:00 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 FNRM 4232W; Ingrid Schneider ; 4 cr.

56913 002 DIS, 13:55-14:45 Th, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 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)**

57284 001 LEC, Completely Online; Meets With: 001 FNRM 3262; Chad Babcock ; 3 cr.

57285 002 LAB, Completely Online; Meets With: 002 FNRM 3262; Chad Babcock ; 3 cr.

66853 003 LAB, 15:00-16:55 Th, Skok Hall 35, In Person Term Based; Meets With: 003 FNRM 3262; Chad Babcock ; 3 cr.

**5362 Drones: Data, Analysis, and Operations****(Student Option; Prereq: grad student or instr consent)**

57201 001 LEC, 09:35-11:30 F, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 3362; Joe Knight, Daniel Heins ; 3 cr.

**5431 Timber Harvesting and Road Planning****(Student Option; Prereq: grad student)**

56910 001 LEC, 13:55-14:45 MW, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 3431; Charlie Blinn ; 2 cr.

**5462 Advanced Remote Sensing and Geospatial Analysis****(Student Option; Prereq: grad student or instr consent)**

57062 001 LEC, 10:15-11:30 TTh, Green Hall 203, In Person Term Based; Meets With: 001 FNRM 3462; Chad Babcock, Joe Knight ; 3 cr.

**5480 Topics in Natural Resources****(Student Option; )**

68134 001 LEC, 10:10-11:50 W, Green Hall 326, In Person Term Based; Mae Davenport ; 1-3 cr.

**5501 Urban Forest Management: Managing Greenspaces for People****(Student Option; )**

56728 001 LEC, 14:00-15:15 MW, Green Hall 19, In Person Term Based; Meets With: 001 FNRM 4501; Eric North ; 3 cr.

**French (FREN)****1001 Beginning French I****(Student Option; )**

52863 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 FREN 4001; Anne Thompson ; 5 cr.

52864 002 DIS, 11:15-12:05 MTWThF, Folwell Hall 12, In Person Term Based; Meets With: 002 FREN 4001; Anne Thompson ; 5 cr.

52865 003 DIS, 13:25-14:15 MTWThF, Peik Hall 155, In Person Term Based; Meets With: 003 FREN 4001; Noah Goodwin ; 5 cr.

54593 004 DIS, 14:30-16:25 TTh, Folwell Hall 112, In Person Term Based; Meets With: 004 FREN 4001; Anne Thompson ; 5 cr.

**1002 Beginning French II****(Student Option; Prereq: FREN 1001 or equivalent.)**

52866 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 120, Partially Online; Meets With: 001 FREN 4002; Lauren Goodspeed ; 5 cr.

52867 002 DIS, 10:10-11:00 MTWTh, Folwell Hall 30, Partially Online; Meets With: 002 FREN 4002; Pauline Maison-Dessemme ; 5 cr.

52868 003 DIS, 13:25-14:15 MTWTh, Folwell Hall 5, Partially Online; Meets With: 003 FREN 4002; Lauren Goodspeed ; 5 cr.

52869 004 DIS, 14:30-16:25 TTh, Folwell Hall 3, Partially Online; Meets With: 004 FREN 4002; Ellen Wormwood ; 5 cr.

66321 005 DIS, 18:20-20:25 MTh, Folwell Hall 103, In Person Term Based; Ellen Wormwood ; 5 cr.

**1003 Intermediate French I****(Student Option; Prereq: C- or better in FREN 1002 or 1022, or EPT (for students taking their first French course at the U))**

52871 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 104, Partially Online; Meets With: 001 FREN 4003; Sally Kessler ; 5 cr.

52872 002 DIS, 10:10-11:00 MTWTh, Twin Cities Remote, Completely Online; Meets With: 002 FREN 4003; Patricia Mougel ; 5 cr.

52873 003 DIS, 11:15-12:05 MTWTh, Folwell Hall 104, Partially Online; Meets With: 003 FREN 4003; Kirsten Smith ; 5 cr.

53123 004 DIS, 11:15-12:05 MTWTh, Folwell Hall 103, Partially Online; Meets With: 004 FREN 4003; Ashlie Henery ; 5 cr.

53539 005 DIS, 13:25-14:15 MTWTh, Kolthoff Hall 138, Partially Online; Meets With: 005 FREN 4003; Fidele Tchoffo Tsasse ; 5 cr.

53540 006 DIS, 18:20-20:25 MTh, Folwell Hall 10, In Person Term Based; Meets With: 006 FREN 4003; Janel Toussaint ; 5 cr.

**1004 Intermediate French II****(Student Option; Prereq: C- or better in FREN 1003, or EPT/LPE (for students taking their first French course at the U))**

52874 001 DIS, 08:00-08:50 MTWTh, Folwell Hall 13, Partially Online; Meets With: 001 FREN 4004; Arwa Reda ; 5 cr.

52875 002 DIS, 10:10-11:00 MTWTh, Folwell Hall 121, Partially Online; Meets With: 002 FREN 4004; Marina Calas ; 5 cr.

52876 003 DIS, 10:10-11:00 MTWTh, Twin Cities Remote, Completely Online; Meets With: 002 FREN 4004; Marina Calas ; 5 cr.

52877 004 DIS, 11:15-12:05 MTWTh, Folwell Hall 16, Partially Online; Meets With: 004 FREN 4004; Marina Calas ; 5 cr.

52878 005 DIS, 12:20-13:10 MTWTh, Folwell Hall 10, Partially Online; Meets With: 005 FREN 4004; Ellen Wormwood ; 5 cr.

53541 006 DIS, 13:25-14:15 MTWTh, Twin Cities Remote, Completely Online; Meets With: 006 FREN 4004; Patricia Mougel ; 5 cr.

53542 007 DIS, 18:20-20:25 MTh, Folwell Hall 13, In Person Term Based; Meets With: 007 FREN 4004; Ramon Fonkoue ; 5 cr.

**1022 Accelerated Beginning French****(Student Option; )**

53113 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 001 FREN 4022; Lise Hoy ; 5 cr.

55446 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 FREN 4022; Ashlie Henery ; 5 cr.

**1501 Gateways to French and Francophone Studies: English Only****(A-F or Audit; Prerequisites. All materials for French 1501 are in English, and students in all programs are welcome!AH,GP)**

55823 001 DIS, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Heidi Beckman ; 3 cr.

**1502 Gateways to French and Francophone Studies: Bilingual****(A-F or Audit; Prereq: FREN 1004 (or equivalent through the LPE)AH,GP)**

55824 001 DIS, 14:30-15:45 TTh, Twin Cities Remote, Completely Online; Ioana Vartolomei Pribiag ; 3 cr.

**3015 Advanced French Grammar and Communication****(Student Option; Prerequisite: French 1004 or LPE.****Voilà?, c'est fait: You have completed French 1004 or passed the LPE. You are certified as an intermediate speaker of French. Don't lose your momentum!**

French 3015 allows you to start working toward a new goal: advanced proficiency in speaking, listening, reading, and writing French. Along with this higher proficiency comes a deeper understanding of French and Francophone culture around the world. In this class, you will focus on grammar in context, reading longer, more complex texts in the original language. You will write short compositions that include various genres such as the first-person narrative, the business letter, and the essay. You will learn how to use the correction software Antidote as a means of perfecting your writing skills. In class, you will participate in group work to boost your oral comprehension skills and in writing workshops to boost your writing skills. Listening activities include a film, an audiobook, a song, and videos related to readings. Written exercises include translation, grammar, and vocabulary building. Literary readings include excerpts from a medieval text (La I?gende de Tristan et Iseult), as well as four 20th-century texts (by Danielle Cadorette, Annie Ernaux, Albert Camus, and Pierre-Jakez H?lias). Journalists include Kamel Daoud (published in the Le Monde) and Fatym Layachi (published in the Moroccan newspaper Tel Quel). Based on these readings and discussions of the themes of friendship, family, education, work, technology, and bilingualism, you will explore notions of identity in the French and Francophone world.)

52879 001 DIS, 09:05-09:55 MWF, Folwell Hall 112, In Person Term Based; Trina Whitaker ; 3 cr.

52880 002 DIS, 11:15-12:05 MWF, Folwell Hall 13, In Person Term Based; Lydia Belateche ; 3 cr.

**3016 Advanced French Composition and Communication****(Student Option; Prerequisite: FREN 3015. )**

52881 001 LEC, 09:05-09:55 MWF, Folwell Hall 12, In Person Term Based; Lydia Belateche ; 3 cr.

52882 002 LEC, 10:10-11:00 MWF, Folwell Hall 108, In Person Term Based; Lydia Belateche ; 3 cr.

**3018 French Oral Communication****(Student Option; Prereq: 3014, 3015)**

66162 001 DIS, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Patricia Mougel ; 3 cr.

**3101W Methods in French and Francophone Studies****(Student Option; Prereq: 3016 or equivLITR,WI)**

52883 001 DIS, 09:45-11:00 MW, Ford Hall 170, In Person Term Based; Magdala Lissa Jeudy ; 3 cr.

53739 002 DIS, 11:15-12:30 TTh, Folwell Hall 13, In Person Term Based; Bruno Chaouat ; 3 cr.

**3611 Speaking of Love in Medieval France: Stories, Songs, and Letters****(A-F only; Prereq: FREN 3015GP,LITR)**

66163 001 DIS, 13:00-14:15 MW, Folwell Hall 6, In Person Term Based; Susan Noakes ; 3 cr.

**3632 Revolution and Human Rights: The French Revolution and its Legacy****(Student Option; Prereq: Fren 3015; Fren 3016 recommendedAH,CIV)**

68333 001 LEC, 13:00-14:15 T, Burton Hall 120, In Person Term Based; Meets With: 001 FREN 3732001 HIST 3732; Juliette Cherbuliez ; 3 cr.

68334 002 DIS, 13:00-14:15 Th, Burton Hall 125, In Person Term Based; Juliette Cherbuliez ; 3 cr.

**3650 Topics in French/Francophone Cultures****(Student Option; Prereq: 3015)**

66319 001 DIS, 14:30-15:45 MW, Folwell Hall 4, In Person Term Based; Kate Paesani ; 3 cr.

**3732 Revolution and Human Rights: The French Revolution and its Legacy****(Student Option; Prerequisites. All materials for Fren 3732 are in English, and students in all programs are welcome! AH,CIV)**

68335 001 LEC, 13:00-14:15 T, Burton Hall 120, In Person Term Based; Meets With: 001 FREN 3632001 HIST 3732; Juliette Cherbuliez ; 3 cr.

68336 002 DIS, 13:00-14:15 Th, Burton Hall 120, In Person Term Based; Meets With: 002 HIST 3732; Juliette Cherbuliez ; 3 cr.

**3750 Topics in French or Francophone****Literature and Culture****(Student Option; Prereq: Non-French major; knowledge of French helpful)**

68689 001 DIS, 14:30-15:45 TTh, Folwell Hall 108, In Person Term Based; Ramon Fonkoue ; 3 cr.

**4001 Beginning French for Graduate****Student Research I****(Student Option; )**

55452 004 DIS, 14:30-16:25 TTh, Folwell Hall 112, In Person Term Based; Meets With: 004 FREN 1001; Anne Thompson ; 5 cr.

55453 003 DIS, 13:25-14:15 MTWThF, Peik Hall 155, In Person Term Based; Meets With: 003 FREN 1001; Noah Goodwin ; 5 cr.

55900 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 FREN 1001; Anne Thompson ; 5 cr.

55901 002 DIS, 11:15-12:05 MTWThF, Folwell Hall 12, In Person Term Based; Meets With: 002 FREN 1001; Anne Thompson ; 5 cr.

**4002 Beginning French for Graduate****Student Research II****(Student Option; Prereq: FREN 1001/4001 or equivalent.)**

55454 002 DIS, 10:10-11:00 MTWTh, Folwell Hall 30, Partially Online; Meets With: 002 FREN 1002; Pauline Maison-Dessemme ; 5 cr.

55455 003 DIS, 13:25-14:15 MTWTh, Folwell Hall 5, Partially Online; Meets With: 003 FREN 1002; Lauren Goodspeed ; 5 cr.

55902 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 120, Partially Online; Meets With: 001 FREN 1002; Lauren Goodspeed ; 5 cr.

55903 004 DIS, 14:30-16:25 TTh, Folwell Hall 3, Partially Online; Meets With: 004 FREN 1002; Ellen Wormwood ; 5 cr.

**4003 Int French for Grad Research I****(Student Option; Prereq: C- or better in FREN 1002/4002 or 1022/4022, or EPT (for students taking their first French course at the U))**

55457 005 DIS, 13:25-14:15 MTWTh, Kolthoff Hall 138, Partially Online; Meets With: 005 FREN 1003; Fidele Tchoffo Tsasse ; 5 cr.

55458 002 DIS, 10:10-11:00 MTWTh, Twin Cities Remote, Completely Online; Meets With: 002 FREN 1003; Patricia Mougel ; 5 cr.

55459 006 DIS, 18:20-20:25 MTh, Folwell Hall 10, In Person Term Based; Meets With: 006 FREN 1003; Janel Toussaint ; 5 cr.

55907 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 104, Partially Online; Meets With: 001 FREN 1003; Sally Kessler ; 5 cr.

55908 003 DIS, 11:15-12:05 MTWTh, Folwell Hall 104, Partially Online; Meets With: 003 FREN 1003; Kirsten Smith ; 5 cr.

55909 004 DIS, 11:15-12:05 MTWTh, Folwell Hall 103, Partially Online; Meets With: 004 FREN 1003; Ashlie Henery ; 5 cr.

**4004 Intermediate French for Graduate****Student Research II****(Student Option; Prereq: C- or better in FREN 1003/4003, or EPT/LPE (for students taking their first French course at the U))**

55460 007 DIS, 18:20-20:25 MTh, Folwell Hall 13, In Person Term Based; Meets With: 007 FREN 1004; Ramon Fonkoue ; 5 cr.

55461 005 DIS, 12:20-13:10 MTWTh, Folwell Hall 10, Partially Online; Meets With: 005 FREN 1004; Ellen Wormwood ; 5 cr.

55913 006 DIS, 13:25-14:15 MTWTh, Twin Cities Remote, Completely Online; Meets With: 006 FREN 1004; Patricia Mougel ; 5 cr.

55914 001 DIS, 08:00-08:50 MTWTh, Folwell Hall 13, Partially Online; Meets With: 001 FREN 1004; Arwa Reda ; 5 cr.

55915 002 DIS, 10:10-11:00 MTWTh, Folwell Hall 121, Partially Online; Meets With: 002 FREN 1004; Marina Calas ; 5 cr.

55916 004 DIS, 11:15-12:05 MTWTh, Folwell Hall 16, Partially Online; Meets With: 004 FREN 1004; Marina Calas ; 5 cr.

**4022 Accelerated Beginning French for Graduate Student Research****(Student Option; Prereq: 1001/4001 or equivalent)**

55462 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 001 FREN 1022; Lise Hoy ; 5 cr.

55463 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 FREN 1022; Ashlie Henery ; 5 cr.

**4101V Honors Capstone Seminar in French and Francophone Studies****(A-F only; Prereq: French 3101W and at least three electives completed.WI)**

55050 001 LAB, 16:00-17:40 T, Twin Cities Remote, Completely Online; Meets With: 001 FREN 4101W; Ioana Vartolomei Pribiagi ; 2 cr.

**4101W Capstone Seminar in French and Francophone Studies****(A-F only; Prereq: French 3101W and at least three electives completed.WI)**

66152 001 DIS, 16:00-17:40 T, Twin Cities Remote, Completely Online; Meets With: 001 FREN 4101W; Ioana Vartolomei Pribiagi ; 2 cr.

**4993 Directed Study****(Student Option; Prereq: instr consent)**

52884 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

53656 002 IND, In Person Term Based; Juliette Cherbuliez ; 1-4 cr.

53657 003 IND, In Person Term Based; 1-4 cr.

53658 004 IND, In Person Term Based; 1-4 cr.

53659 005 IND, In Person Term Based; 1-4 cr.

53701 006 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**5350 Topics in Literature and Culture****(Student Option; Prereq: 3101 or equiv)**

66856 001 LEC, 14:30-17:00 T, Folwell Hall 12, In Person Term Based; Bruno Chaouat ; 3 cr.

**French and Italian (FRIT)****3850 Topics in French and Italian Cinema****(Student Option; Prereq: Knowledge of [French or Italian] helpful but not required)**

66389 001 LEC, 09:45-11:00 TTh, Folwell Hall 112, In Person Term Based; Lorenzo Fabbri ; 3 cr.

**Gay, Lesbian, Bisexual, Transg (GLBT)****3309 LGBTQ Literature: Then and Now****(Student Option; DSJ,LITR)**

66467 001 LEC, 16:00-17:15 MW, Pillsbury Hall 314, In Person Term Based; Meets With: 001 ENGL 3331; James Cihlar ; 3 cr.

**3502 Transgender Studies Now****(Student Option; DSJ)**

55582 001 DIS, 09:45-11:00 TTh, Ford Hall 151, In Person Term Based; Meets With: 001 GWSS 3502; Aren Aizura ; 3 cr.

**3993 Directed Studies****(A-F or Audit; Prereq: GLBT studies minor, instr consent)**

53666 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

**4415 Transnational Body Politics****(A-F only; GP)**

65839 001 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 GWSS 4415; Nicholas-Brie Guarriello ; 3 cr.

**5993 Directed Study****(Student Option; )**

54712 001 IND, In Person Term Based; 1-12 cr.

**Gender, Women, & Sexuality Std (GWSS)****1001 Gender, Power, and Everyday Life****(Student Option; )**

54986 001 DIS, Completely Online; Samhar Khalfani, Angela Boutch ; 3 cr.

55608 002 DIS, Completely Online; Magaly Ordenez ; 3 cr.

**1002 Politics of Sex****(Student Option; DSJ,SOCS)**

56567 001 LEC, 11:15-12:30 TTh, Tate Hall B50, In Person Term Based; Sima Shakhshari ; 3 cr.

**1003W Women Write the World****(Student Option; GP,WI,LITR)**

55151 001 LEC, 10:10-11:00 MW, Mayo Bldg &amp; Additions C231, In Person Term Based; Meets With: 001 ENGL 1003W; Rachmi Diyah Larasati ; 3 cr.

55488 003 DIS, 11:15-12:05 W, Ford Hall 170, In Person Term Based; Meets With: 003 ENGL 1003W; 3 cr.

55609 005 DIS, 11:15-12:05 M, Ford Hall 170, In Person Term Based; Meets With: 005 ENGL 1003W; 3 cr.

56041 002 DIS, 12:20-13:10 W, Ford Hall 170, In Person Term Based; Meets With: 002 ENGL 1003W; 3 cr.

56308 004 DIS, 12:20-13:10 M, Nicholson Hall 355, In Person Term Based; Meets With: 004 ENGL 1003W; 3 cr.

**1005 Engaging Justice****(Student Option; CIV)**

55490 001 LEC, Completely Online; Miranda Joseph ; 3 cr.

**3203W Blood, Bodies and Science****(Student Option; SOCS,WI,TS)**

54533 001 LEC, 11:15-12:30 TTh, Nicholson Hall 275, In Person Term Based; Sam Poindexter ; 3 cr.

**3215 Bodies That Matter: Feminist****Approaches to Disability Studies****(Student Option; DSJ)**

65776 001 DIS, 17:00-18:15 TTh, Ford Hall 115, In Person Term Based; Qui Alexander ; 3 cr.

**3307 Feminist Film Studies****(Student Option; AH,DSJ)**

65777 001 DIS, 17:00-19:30 M, Akerman Hall 319, In Person Term Based; Moriah Shumpert ; 3 cr.

**3406 Gender, Labor, and Politics****(Student Option; GP,SOCS)**

55611 001 LEC, Completely Online; Meets With: 001 GWSS 3406H; Miranda Joseph ; 3 cr.

**3406H Honors: Gender, Work, Labor****(A-F only; GP,SOCS)**

55612 001 LEC, Completely Online; Meets With: 001 GWSS 3406; Miranda Joseph ; 3 cr.

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

55991 001 DIS, 09:45-11:00 MW, Ford Hall 151, In Person Term Based; Meets With: 001 AAS 3409W; Rupa Thadhani ; 3 cr.

**3502 Transgender Studies Now****(Student Option; DSJ)**

55581 001 DIS, 09:45-11:00 TTh, Ford Hall 151, In Person Term Based; Meets With: 001 GLBT 3502; Aren Aizura ; 3 cr.

**3505V Girls, Girlhood, and Resistance****(A-F only; WI)**

65834 001 LEC, 13:00-14:15 TTh, Ford Hall 110, In Person Term Based; Meets With: 001 GWSS 3505W; Kari Smalkoski ; 0-3 cr.

**3505W Girls, Girlhood, and Resistance****(Student Option; WI)**

65833 001 DIS, 13:00-14:15 TTh, Ford Hall 110, In Person Term Based; Meets With: 001 GWSS 3505V; Kari Smalkoski ; 3 cr.

**3993 Directed Study****(Student Option; Prereq instr consent, dept consent, college consent.)**

53647 002 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.

**3994 Directed Research****(Student Option; Prereq instr consent, dept consent, college consent.)**

53378 001 IND, In Person Term Based; 1-12 cr.

**4001 Nations, Empires, Feminisms****(A-F only; )**

55580 001 LEC, 17:00-18:15 MW, Ford Hall 151, In Person Term Based; Rachmi Diyah Larasati ; 3 cr.

**4103 Transnational Feminist Theories****(Student Option; GP)**

65836 001 DIS, 14:30-15:45 TTh, Ford Hall 127, In Person Term Based; Meets With: 001 GWSS 5104; Sima Shakhshari ; 3 cr.

**4108 Senior Capstone: Writing**

(A-F only; )  
54710 001 DIS, 10:15-12:45 F, Twin Cities Remote,  
Completely Online; Nicholas-Brie Guarriello ; 3 cr.

**4406 Black Feminist Thought in the American and African Diasporas**

(Student Option; )  
68400 001 DIS, 17:00-19:30 Th, Blegen Hall 240, In Person  
Term Based; Meets With: 001 AFRO 4406001 AFRO 5406;  
Zenzele Isoke ; 3 cr.

**4415 Transnational Body Politics**

(A-F only; GP)  
65838 001 LEC, 16:00-17:15 MW, Twin Cities Remote,  
Completely Online; Meets With: 001 GLBT 4415; Nicholas-  
Brie Guarriello ; 3 cr.

**4590 Topics: Social Change, Activism, Law, and Policy Studies**

(Student Option; )  
69549 001 DIS, 14:30-17:00 M, , In Person Term Based;  
Sophie Hunter, Kevin Murphy ; 3 cr.

**4980 Directed Instruction**

(Student Option; )  
53384 001 IND, In Person Term Based; 1-8 cr.

**4993 Directed Study**

(Student Option; Prereq: Filled out student/faculty  
contract, instr consent, dept consent, college consent)  
53067 001 IND, In Person Term Based; 1-5 cr.  
53102 002 IND, In Person Term Based; 1-5 cr.

**4994 Directed Research**

(Student Option; )  
53379 001 IND, In Person Term Based; 1-8 cr.

**5104 Transnational Feminist Theory**

(Student Option; )  
65837 001 DIS, 14:30-15:45 TTh, Ford Hall 127, In Person  
Term Based; Meets With: 001 GWSS 4103; Sima  
Shakhsari ; 3 cr.

**5993 Directed Study**

(Student Option; )  
54591 001 IND, Independent/Directed Study; 1-12 cr.

**5994 Directed Instruction**

(Student Option; )  
53380 001 IND, In Person Term Based; 1-12 cr.

**5995 Directed Research**

(Student Option; )  
53381 001 IND, In Person Term Based; 1-8 cr.

**General Dentistry (GEND)****5153 Advanced General Dentistry Seminar III**

(S-N or Audit; )  
57553 001 LEC, 00:00-00:00 , , In Person Term Based;  
James Gambucci ; 2-10 cr.

**5256 Advanced General Dentistry Clinic III**

(S-N or Audit; )  
57554 001 FWK, 00:00-00:00 , , In Person Term Based;  
James Gambucci ; 5-15 cr.

**5263 Advanced General Dentistry Clinical Administration III**

(S-N or Audit; )  
57555 001 FWK, 00:00-00:00 , , In Person Term Based;  
James Gambucci ; 1-10 cr.

**5266 Advanced General Dentistry Clinic VI**

(S-N or Audit; )  
57556 001 FWK, 00:00-00:00 , , In Person Term Based;  
James Gambucci, Carol Koskela ; 1-15 cr.

**Genetics, Cell Biol/Developmnt (GCD)****3022 Genetics**

(Student Option; Prereq: Introductory biology course  
such as Biol 1009)  
50714 001 LEC, 09:45-11:00 TTh, Bruininks Hall 330, In  
Person Term Based; Nikunj Somia ; 3 cr.

50754 002 LEC, 14:30-15:45 TTh, Bruininks Hall 220, In  
Person Term Based; York Marahrens ; 3 cr.

**3033 Principles of Cell Biology**

(A-F only; Prereq: BIOL 1009 or equiv)  
50782 001 LEC, 09:45-11:00 TTh, Phillips-Wangenstrn Bldg  
2-470, In Person Term Based; Sean Conner ; 3 cr.  
50898 002 LEC, Completely Online; Sean Conner ; 3 cr.

**3486 Personal Genome Analysis**

(A-F only; Prereq: Biol 2003/2003H)  
66245 001 LEC, 08:15-09:30 TTh, Bruininks Hall 131A, In  
Person Term Based; David Matthes ; 3 cr.

**4005W Cell Biology-Writing Intensive**

(A-F only; Prereq: GCD major, Biol2003/2003H or  
Biol4003 or gradWI)  
50784 001 DIS, 09:05-09:55 Th, Bruininks Hall 420A,  
09:05-09:55 MWF, Bruininks Hall 432, In Person Term  
Based; Deanna Koepf ; 4 cr.

**4025 Cell Biology, Development & Regeneration Laboratory**

(Student Option; Prereq: Biol 2003/2003H or instructor  
permission; Recommended prerequisite: Biol 4004 or  
GCD 4005W (priority enrollment to GCD majors))  
50659 002 LAB, 12:20-16:25 M, Molecular Cellular Biol  
2-124, In Person Term Based; Ann Rougvie, Hiroshi  
Nakato ; 3 cr.  
50686 001 LEC, 11:15-12:05 M, Molecular Cellular Biol  
2-122, In Person Term Based; Ann Rougvie, Hiroshi  
Nakato ; 3 cr.  
50911 003 LAB, 12:20-16:25 W, Molecular Cellular Biol  
2-124, In Person Term Based; Ann Rougvie, Hiroshi  
Nakato ; 3 cr.

**4111 Histology: Cell and Tissue Organization**

(Student Option; Prereq: GCD 3033 or BIOL 4004 or  
instructor consent)  
50565 001 LEC, 09:45-11:00 TTh, Twin Cities Remote,  
Completely Online; Jan Norrander ; 4 cr.  
50566 002 LAB, 11:15-12:55 TTh, Twin Cities Remote,  
Completely Online; Jan Norrander ; 4 cr.

**4143 Human Genetics and Genomics**

(Student Option; Prereq: Biol 4003 or instructor  
consent)  
50589 001 LEC, 09:45-11:00 TTh, Molecular Cellular Biol  
2-120, In Person Term Based; David Matthes, Frank  
Albert ; 3 cr.

**4171 Stem Cells in Biology and Medicine**

(A-F only; Prerequisites: BIOL 4003 Genetics;  
recommended prerequisite: BIOL 4004 Cell Biology or  
GCD 4005W This course can be used as an elective for  
certain CBS majors, such as the GCD major. Check the  
Program Requirements for your major to determine if it  
can be used as an elective.)  
50781 001 LEC, 10:10-11:00 MWF, Molecular Cellular Biol  
2-122, In Person Term Based; Jeffrey Simon ; 3 cr.

**4693 Genomics Directed Studies - Literature Review**

(S-N only; Prereq: department consent; instructor  
consent.)  
69107 001 IND, 00:00-00:00 , , In Person Term Based; Ian  
McFarlane ; 2-4 cr.

**4793W Directed Studies: Writing Intensive**

(S-N only; Prereq: department consent, instructor  
consent, no more than 7 credits of 4793, 4794, 4993W,  
4994W counts towards CBS major requirements. WI)  
50646 001 IND, 00:00-00:00 , , In Person Term Based; 1-7  
cr.

**4794W Directed Research: Writing Intensive**

(S-N only; Prereq: department consent, instructor  
consent, no more than 7 credits of 4793, 4794, 4993W,  
4994W counts towards CBS major requirements. WI)  
50647 001 IND, In Person Term Based; 1-7 cr.  
51014 002 IND, In Person Term Based; 1-7 cr.

**4993 Directed Studies**

(S-N only; Prereq: department consent, instructor  
consent, no more than 7 credits of 4793, 4794, 4993W,  
4994W counts towards CBS major requirements.)  
50587 001 IND, 00:00-00:00 , , In Person Term Based; 1-7  
cr.

**4994 Directed Research**

(S-N only; Prereq: department consent, instructor  
consent, no more than 7 credits of 4793, 4794, 4993W,  
4994W counts towards CBS major requirements. )  
50586 001 IND, 00:00-00:00 , , In Person Term Based; 1-7  
cr.

**5101 Critical and Translational Reasoning in Visual Science**

(A-F only; Prereq: Senior major in GCD, Neuroscience,  
IBP, or BMBB or grad, open to advanced juniors with  
instructor permission)  
66747 001 LEC, 13:00-14:15 TTh, Lions Res/MaGuire Trans  
3-204, In Person Term Based; Harald Junge ; 3 cr.

**Geographic Information Science (GIS)****5530 GIS Internship**

(S-N only; Prereq: instr consent, strong GIS/mapping  
skills)  
54170 001 FWK, 00:00-00:00 , , Independent/Directed Study;  
Susanna McMaster ; 1-3 cr.

**5572 ArcGIS II**

(Student Option; Prereq: [5571, [GEOG 5561 or equiv],  
in MGIS program] or instr consent)  
53458 001 LEC, 18:00-20:50 Th, Blegen Hall 455, In Person  
Term Based; Bryan Runck ; 3 cr.

**5577 Spatial Database Design and Administration**

(Student Option; Prereq: instr consent)  
55226 001 LAB, 18:00-20:50 T, Blegen Hall 455, In Person  
Term Based; David Haynes ; 3 cr.

**Geography (GEOG)****1301W Our Globalizing World**

(Student Option; GP,WI,SOCS)  
52557 001 LEC, 10:10-11:00 MW, Anderson Hall 350, In  
Person Term Based; Ned Wilbur ; 3 cr.  
52558 003 DIS, 11:15-12:05 W, Blegen Hall 125, In Person  
Term Based; 3 cr.  
52559 004 DIS, 10:10-11:00 F, Blegen Hall 220, In Person  
Term Based; 3 cr.  
52560 005 DIS, 11:15-12:05 W, Blegen Hall 125, In Person  
Term Based; 3 cr.  
55585 006 DIS, 10:10-11:00 F, Blegen Hall 220, In Person  
Term Based; 3 cr.

**1372 Geography of Global Cities**

(Student Option; GP,SOCS)  
69215 001 LEC, 09:45-11:00 TTh, Blegen Hall 110, In  
Person Term Based; Ateeb Ahmed ; 3 cr.

**1403 Biogeography of the Global Garden**

(Student Option; BIOL,ENV)  
52679 001 LEC, 11:15-12:30 MW, Willey Hall 175, In Person  
Term Based; Kurt Kipfmuller ; 4 cr.  
52680 003 LAB, 13:00-14:15 M, Social Sciences Building  
167, In Person Term Based; 4 cr.  
52681 004 LAB, 14:30-15:45 M, Social Sciences Building  
167, In Person Term Based; 4 cr.  
52682 006 LAB, 09:45-11:00 T, Social Sciences Building  
167, In Person Term Based; 4 cr.  
52683 008 LAB, 13:00-14:15 T, Social Sciences Building  
167, In Person Term Based; 4 cr.  
52684 010 LAB, 09:45-11:00 W, Social Sciences Building  
167, In Person Term Based; 4 cr.  
52685 011 LAB, 13:00-14:15 W, Social Sciences Building  
167, In Person Term Based; 4 cr.  
53193 002 LAB, 09:45-11:00 M, Social Sciences Building  
167, In Person Term Based; 4 cr.  
53194 009 LAB, 14:30-15:45 T, Social Sciences Building  
167, In Person Term Based; 4 cr.  
53884 015 LAB, 11:15-12:30 Th, Social Sciences Building  
167, In Person Term Based; 4 cr.  
54630 007 LAB, 11:15-12:30 T, Social Sciences Building  
167, In Person Term Based; 4 cr.

**1425 Introduction to Weather and Climate**

(Student Option; ENV,PHYS)  
53602 001 LEC, 15:35-16:25 MWF, Twin Cities Remote,  
Completely Online; Meets With: 001 ESPM 1425; Peter  
Snyder ; 4 cr.  
53733 002 LAB, 16:40-17:30 M, Twin Cities Remote,  
Completely Online; Meets With: 002 ESPM 1425; Peter  
Snyder ; 4 cr.  
53881 003 LAB, 16:40-17:30 W, Twin Cities Remote,  
Completely Online; Meets With: 003 ESPM 1425; Peter  
Snyder ; 4 cr.

**1502 Mapping Our World**

(Student Option; SOCS,TS)  
53603 001 LEC, Completely Online; Emma DeVries ; 3 cr.

**3111 Geography of Minnesota**

(Student Option; )  
68111 001 LEC, 09:30-12:00 F, Hubert H. Humphrey School  
20, In Person Term Based; Daniel Griffin ; 3 cr.

**3121 Geography of Latin America**

(Student Option; )  
68107 001 LEC, 11:15-12:30 MW, Blegen Hall 130, In  
Person Term Based; Adam Bledsoe ; 3 cr.

**3341 Black Geographies**

(Student Option; )  
68106 001 LEC, 13:00-14:15 MW, Blegen Hall 235, In  
Person Term Based; Meets With: 001 AFRO 3341; Adam  
Bledsoe ; 3 cr.

**3371W Cities, Citizens, and Communities**

(Student Option; DSJ,WI)  
53525 001 LEC, 11:15-12:30 TTh, Anderson Hall 350, In  
Person Term Based; Julie Santella ; 3 cr.

**3377 Music in the City**

(A-F or Audit; AH,DSJ)  
56328 001 LEC, 09:45-11:00 MW, Blegen Hall 260, In  
Person Term Based; Arun Saldanha ; 3 cr.

**3381W Population in an Interacting World**

(Student Option; GP,WI,SOCS)  
53835 001 LEC, 14:30-15:45 TTh, Anderson Hall 330, In  
Person Term Based; Mark Brinda ; 3 cr.

**3388 Going Places: Geographies of Travel and Tourism**

(A-F only; CIV)  
56329 001 LEC, 14:30-15:45 MW, Blegen Hall 135, In  
Person Term Based; Arun Saldanha ; 3 cr.

**3401W Geography of Environmental**

**Systems and Global Change**  
(Student Option; ENV,WI)  
53604 001 LEC, Completely Online; Meets With: 001 GEOG  
5401W; Katherine Klink ; 3 cr.

**3411W Geography of Health and Health Care**

(Student Option; WI)  
68327 001 LEC, 14:30-15:45 MW, Blegen Hall 235, In  
Person Term Based; Ruth Burrows ; 3 cr.

**3421 Climatology**

(Student Option; )  
68110 001 LEC, 14:30-16:10 T, Blegen Hall 415, In Person  
Term Based; Daniel Griffin ; 4 cr.  
68129 002 LAB, 14:30-16:10 Th, Blegen Hall 455, In Person  
Term Based; 4 cr.

**3531 Numerical Spatial Analysis**

(Student Option; Prereq: high-school algebra; Basic  
stats and linear algebra recommended)  
68121 001 LEC, 13:00-14:15 MW, Blegen Hall 435, In  
Person Term Based; Meets With: 001 GEOG 5531; Di  
Zhu ; 4 cr.  
68148 002 DIS, 14:30-16:25 W, Blegen Hall 455, In Person  
Term Based; Meets With: 002 GEOG 5531; ; 4 cr.

**3541 Principles of Geocomputing**

(Student Option; )  
55556 001 LEC, 13:00-14:15 TTh, Twin Cities Remote,  
Completely Online; Meets With: 001 GEOG 5541; Eric  
Shook ; 3 cr.

**3839 Introduction to Dendrochronology**

(Student Option; Prereq: [1403, [BIOL 1001 or BIOL  
1009 or equiv]] or instr consent)  
68128 001 LEC, 14:30-15:45 W, Social Sciences Building  
167, 14:30-15:45 M, Blegen Hall 115, In Person Term  
Based; Kurt Kipfmuller ; 3 cr.

**3992 Directed Reading**

(Student Option; Prereq-instr consent, dept consent,  
college consent.)  
53031 001 IND, In Person Term Based; 1-8 cr.

**3993 Directed Studies**

(Student Option; Prereq-instr consent, dept consent,  
college consent. )  
53030 001 IND, In Person Term Based; 1-8 cr.

**3994 Directed Research**

(Student Option; Prereq instr consent, dept consent,  
college consent.)  
53032 001 IND, 00:00-00:00 , , In Person Term Based; 1-8  
cr.

**3996 Senior Project Directed Research**

(A-F only; Prereq instr consent,dept consent,college  
consent.)  
55250 001 IND, In Person Term Based; Adam Bledsoe ; 3-4  
cr.  
55251 002 IND, In Person Term Based; Bruce Braun ; 3-4 cr.  
55252 003 IND, In Person Term Based; Madelaine Cahuas ;  
3-4 cr.  
55253 004 IND, In Person Term Based; Kate Derickson ; 3-4  
cr.  
55254 005 IND, In Person Term Based; Vinay Gidwani ; 3-4  
cr.  
55255 006 IND, In Person Term Based; Kathryn Grace ; 3-4  
cr.  
55256 007 IND, In Person Term Based; Daniel Griffin ; 3-4 cr.  
55257 008 IND, In Person Term Based; George Henderson ;  
3-4 cr.  
55258 009 IND, In Person Term Based; Kurt Kipfmuller ; 3-4  
cr.  
55259 010 IND, In Person Term Based; Katherine Klink ; 3-4  
cr.  
55260 011 IND, In Person Term Based; Steven Manson ; 3-4  
cr.  
55261 012 IND, In Person Term Based; Robert Mc Master ;  
3-4 cr.  
55262 013 IND, In Person Term Based; Arun Saldanha ; 3-4  
cr.  
55263 014 IND, In Person Term Based; Abdi Samatar ; 3-4  
cr.  
55264 015 IND, In Person Term Based; Eric Shook ; 3-4 cr.  
55265 016 IND, In Person Term Based; Ying Song ; 3-4 cr.  
55266 017 IND, In Person Term Based; Di Zhu ; 3-4 cr.  
55267 018 IND, In Person Term Based; 3-4 cr.  
55268 019 IND, In Person Term Based; 3-4 cr.

**3997 Senior Project**

(A-F only; Prereq instr consent, dept consent, college  
consent.)  
55269 001 IND, In Person Term Based; Adam Bledsoe ; 2 cr.  
55270 002 IND, In Person Term Based; Bruce Braun ; 2 cr.  
55271 003 IND, In Person Term Based; Madelaine Cahuas ;  
2 cr.  
55272 004 IND, In Person Term Based; Kate Derickson ; 2 cr.  
55273 005 IND, In Person Term Based; Vinay Gidwani ; 2 cr.  
55274 006 IND, In Person Term Based; Kathryn Grace ; 2 cr.  
55275 007 IND, In Person Term Based; Daniel Griffin ; 2 cr.  
55276 008 IND, In Person Term Based; George Henderson ;  
2 cr.  
55277 009 IND, In Person Term Based; Kurt Kipfmuller ; 2  
cr.  
55278 010 IND, In Person Term Based; Katherine Klink ; 2 cr.  
55279 011 IND, In Person Term Based; 2 cr.  
55280 012 IND, In Person Term Based; Robert Mc Master ;  
2 cr.  
55281 013 IND, In Person Term Based; Arun Saldanha ; 2 cr.  
55282 014 IND, In Person Term Based; Abdi Samatar ; 2 cr.  
55283 015 IND, In Person Term Based; Eric Shook ; 2 cr.  
55284 016 IND, In Person Term Based; Ying Song ; 2 cr.  
55285 017 IND, In Person Term Based; Di Zhu ; 2 cr.  
55286 018 IND, In Person Term Based; 2 cr.  
55287 019 IND, In Person Term Based; 2 cr.

**4001 Modes of Geographic Inquiry**

(Student Option; )  
68108 001 LEC, 09:45-11:00 MW, Blegen Hall 120, In  
Person Term Based; Bruce Braun ; 4 cr.

**5401W Geography of Environmental**

**Systems and Global Change**  
(Student Option; Prereq: grad student or instr  
consentENV,WI)  
55288 001 LEC, Completely Online; Meets With: 001 GEOG  
3401W; Katherine Klink ; 3 cr.

**5531 Numerical Spatial Analysis**

(Student Option; )  
68989 001 LEC, 13:00-14:15 MW, Blegen Hall 435, In  
Person Term Based; Meets With: 001 GEOG 3531; Di  
Zhu ; 4 cr.  
68990 002 DIS, 14:30-16:25 W, Blegen Hall 455, In Person  
Term Based; Meets With: 002 GEOG 3531; ; 4 cr.

**5541 Principles of Geocomputing**

(A-F or Audit; )  
55557 001 LEC, 13:00-14:15 TTh, Twin Cities Remote,  
Completely Online; Meets With: 001 GEOG 3541; Eric  
Shook ; 3 cr.

**5563 Advanced Geographic Information Science**

(Student Option; Prereq: B or better in 3561 or 5561 or  
instr consent)  
55558 001 LEC, 09:45-11:00 T, Blegen Hall 225, In Person  
Term Based; Ying Song ; 3 cr.  
55559 002 LAB, 09:45-11:00 Th, Blegen Hall 455, In Person  
Term Based; 3 cr.

**5564 Urban Geographic Information Science and Analysis**

(Student Option; Prereq: 3561 or 5561)  
55100 001 LEC, 14:30-15:45 T, Blegen Hall 205, In Person  
Term Based; Ying Song ; 3 cr.  
56259 002 LAB, 14:30-15:45 Th, Blegen Hall 115, In Person  
Term Based; 3 cr.

**German (GER)****1001 Beginning German**

(Student Option; )  
52725 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 18,  
Partially Online; Meets With: 001 GER 4001; DeeAnn  
Sime ; 5 cr.  
53832 002 DIS, 18:20-20:25 MW, Folwell Hall 6, In Person  
Term Based; Meets With: 002 GER 4001; Bjorn Treber ; 5  
cr.

**1002 Beginning German**

(Student Option; Prereq: 1001)  
52738 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 106,  
Partially Online; Meets With: 001 GER 4002; Jennifer  
Peterson ; 5 cr.  
52739 002 DIS, 11:15-12:05 MTWTh, Folwell Hall 28,  
Partially Online; Meets With: 002 GER 4002; Jennifer  
Peterson ; 5 cr.  
52741 004 DIS, 18:20-20:25 TTh, Twin Cities Remote,  
Completely Online; Meets With: 004 GER 4002; DeeAnn  
Sime ; 5 cr.

**1003 Intermediate German**

(Student Option; Prereq: 1002 or Entrance Proficiency  
Test)  
52742 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 103,  
Partially Online; Meets With: 002 GER 4003; Rachel  
Dodson ; 5 cr.  
52743 002 DIS, 13:25-14:15 MTWTh, Folwell Hall 16,  
Partially Online; Meets With: 002 GER 4003; Arsenia  
laneva-Lockney ; 5 cr.  
53443 003 DIS, 18:20-20:25 TTh, Twin Cities Remote,  
Completely Online; Meets With: 003 GER 4003; Helena  
Ruf, Jenneke Oosterhoff ; 5 cr.

**1004 Intermediate German**

(Student Option; Prereq: 1003 or completion of  
Entrance Proficiency Test at 1004 level)  
52744 001 DIS, 08:00-08:50 MTWTh, Folwell Hall 16,  
Partially Online; Meets With: 001 GER 4004; Ginny  
Steinhagen ; 5 cr.  
52745 002 DIS, 10:10-11:00 MTWTh, Ford Hall 127, Partially  
Online; Meets With: 002 GER 4004; Kathleen Ibe ; 5 cr.  
52746 003 DIS, 13:25-14:15 MTWTh, Folwell Hall 105,  
Partially Online; Meets With: 003 GER 4004; DeeAnn  
Sime ; 5 cr.  
52747 004 DIS, 18:20-20:25 TTh, Twin Cities Remote,  
Completely Online; Meets With: 004 GER 4004; Vincent  
Kancans ; 5 cr.

**1022 Beginning German Review**

(Student Option; Prereq: Placement above 1001)  
66299 001 DIS, 12:20-13:10 MTWTh, Folwell Hall 121,  
Partially Online; Jennifer Peterson, Helena Ruf ; 5 cr.

**3011W Conversation and Composition**

(Student Option; Prereq: 1004WI)  
52769 001 DIS, 10:10-12:05 TTh, Appleby Hall 226, In  
Person Term Based; Yana Taets ; 4 cr.  
53527 002 DIS, 14:30-16:25 MW, Folwell Hall 112, In Person  
Term Based; Arsenia laneva-Lockney ; 4 cr.

**3012W Conversation and Composition**

(Student Option; Prereq: 3011WI)  
54392 001 DIS, 09:45-11:00 TTh, Folwell Hall 3, In Person  
Term Based; Emily Groepper ; 3 cr.

**3016 Techniques of Translation**

(Student Option; Prereq: 3011)  
67731 001 DIS, 09:45-11:00 TTh, Folwell Hall 107, In Person  
Term Based; Michael Tieber ; 3 cr.

**3021 Business German**

(Student Option; Prereq: 3011 or equiv)  
54805 001 DIS, 16:00-17:15 TTh, Folwell Hall 122, In Person  
Term Based; Arsenia laneva-Lockney ; 3 cr.

**3104W Reading and Analysis of German Literature**

(Student Option; Prereq: 3011LITR,WI)  
53017 001 DIS, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Jamele Watkins ; 3 cr.

**3421 18th-Century German Literature**

(Student Option; Prereq: 3011)  
66214 001 LEC, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Jamele Watkins ; 3 cr.

**3501 Contemporary Germany**

(Student Option; Prereq: 3011)  
66214 001 LEC, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Henning Schroeder ; 3 cr.

**3702 Beginning Middle High German**

(Student Option; Prereq: 1004)  
56360 001 DIS, 13:00-14:15 TTh, Folwell Hall 122, In Person Term Based; Meets With: 001 GER 5721; Anatoly Liberman ; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
52998 001 IND, 00:00-00:00 , , In Person Term Based; Ruediger Singer, James Parente ; 1-4 cr.

**4001 Beginning German for Graduate Research**

(Student Option; Prereq: Grad student)  
53886 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 18, Partially Online; Meets With: 001 GER 1001; DeeAnn Sime ; 5 cr.  
53887 002 DIS, 18:20-20:25 MW, Folwell Hall 6, In Person Term Based; Meets With: 002 GER 1001; Bjorn Treber ; 5 cr.

**4002 Beginning German for Graduate Research**

(Student Option; Prereq: Grad student)  
53889 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 106, Partially Online; Meets With: 001 GER 1002; Jennifer Peterson ; 5 cr.  
53890 002 DIS, 11:15-12:05 MTWTh, Folwell Hall 28, Partially Online; Meets With: 002 GER 1002; Jennifer Peterson ; 5 cr.  
53892 004 DIS, 18:20-20:25 TTh, Twin Cities Remote, Completely Online; Meets With: 004 GER 1002; DeeAnn Sime ; 5 cr.

**4003 Intermediate German for Graduate Research**

(Student Option; Prereq: Grad student)  
53893 001 DIS, 09:05-09:55 MTWTh, Folwell Hall 103, Partially Online; Meets With: 001 GER 1003; Rachel Dodson ; 5 cr.  
53894 002 DIS, 13:25-14:15 MTWTh, Folwell Hall 16, Partially Online; Meets With: 002 GER 1003; Arsena Ianeva-Lockney ; 5 cr.  
53895 003 DIS, 18:20-20:25 TTh, Twin Cities Remote, Completely Online; Meets With: 003 GER 1003; Helena Ruf, Jenneke Oosterhoff ; 5 cr.

**4004 Intermediate German for Graduate Research**

(Student Option; Prereq: Grad student)  
53896 001 DIS, 08:00-08:50 MTWTh, Folwell Hall 16, Partially Online; Meets With: 001 GER 1004; Ginny Steinhagen ; 5 cr.  
53897 002 DIS, 10:10-11:00 MTWTh, Ford Hall 127, Partially Online; Meets With: 002 GER 1004; Kathleen Ibe ; 5 cr.  
53898 003 DIS, 13:25-14:15 MTWTh, Folwell Hall 105, Partially Online; Meets With: 003 GER 1004; DeeAnn Sime ; 5 cr.  
53899 004 DIS, 18:20-20:25 TTh, Twin Cities Remote, Completely Online; Meets With: 004 GER 1004; Vincent Kancans ; 5 cr.

**5410 Topics in German Literature**

(Student Option; )  
68003 002 DIS, 16:40-19:10 Th, Folwell Hall 119, In Person Term Based; Michael Tieber ; 3 cr.

**5610 German Literature in Translation**

(Student Option; Prereq: No knowledge of German required; cr toward major or minor requires reading in German)  
66322 001 DIS, 16:40-19:10 M, Folwell Hall 112, In Person Term Based; Meets With: 001 PHIL 4009001 PHIL 5009; Matthias Rothe ; 3 cr.

**5721 Introduction to Middle High German**

(Student Option; )

56361 001 LEC, 13:00-14:15 TTh, Folwell Hall 122, In Person Term Based; Meets With: 001 GER 3702; Anatoly Liberman ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
52987 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**German, Scandinavian, and Dutch (GSD)****3451V Honors Major Project Seminar**

(A-F or Audit; Prereq: Honors studentWI)  
66230 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 GSD 3451W001 RUSS 3311W001 RUSS 3311V; Leslie Morris ; 3 cr.

**3451W Major Project Seminar**

(A-F or Audit; WI)  
66231 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 RUSS 3311V001 RUSS 3311W001 GSD 3451V; Leslie Morris ; 3 cr.

**3512W Imagined Communities:****German and European, Culture and Controversies, 1700 to Present**

(Student Option; WI)  
52982 001 DIS, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; James Parente ; 3 cr.

**Gerontology (GERO)****5518 Equity and Long-Term Care Quality**

(A-F only; Prerequisites but students are encouraged to take a course on U.S. health care (e.g., PubH 6556, Health and Health Systems) prior to taking the course. Cross-listed with: PubH 6518)  
67992 001 LEC, 10:10-12:05 W, Mayo Bldg & Additions D325, In Person Term Based; Meets With: 001 PUBH 6518; Tetyana Shippee ; 2 cr.

**Global Studies (GLOS)****3105 Ways of Knowing in Global Studies**

(Student Option; )  
66205 001 LEC, 09:45-11:00 TTh, Peik Hall 315, In Person Term Based; William Viestenz ; 3 cr.

**3143 Living in the Global**

(A-F only; CIV)  
54772 001 LEC, 14:30-15:45 TTh, Blegen Hall 145, In Person Term Based; Thomas Wolfe ; 3 cr.

**3145 Global Modernity, the Nation-State, and Capitalism**

(A-F only; Prereq: soph, jr, or sr Units: 3.00)  
52846 001 LEC, 10:10-11:00 MW, Blegen Hall 5, In Person Term Based; Meets With: 001 GLOS 3145H; Michael Goldman ; 3 cr.  
53436 002 DIS, 10:10-11:00 F, Blegen Hall 260, In Person Term Based; Anindita Chatterjee ; 3 cr.  
53437 003 DIS, 11:15-12:05 F, Blegen Hall 225, In Person Term Based; Anindita Chatterjee ; 3 cr.  
53438 004 DIS, 10:10-11:00 F, Blegen Hall 115, In Person Term Based; Camille Braun ; 3 cr.  
53439 005 DIS, 11:15-12:05 F, Blegen Hall 205, In Person Term Based; Camille Braun ; 3 cr.

**3145H Honors: Global Modernity, the Nation-State, and Capitalism**

(A-F only; Prereq: Honors soph, jr, or sr Units: 3.00)  
53187 001 LEC, 10:10-11:00 MW, Blegen Hall 5, In Person Term Based; Meets With: 001 GLOS 3145; Michael Goldman ; 3 cr.  
53435 002 DIS, 10:10-11:00 F, Blegen Hall 140, In Person Term Based; Michael Goldman ; 3 cr.

**3215 Supercapitalism: Labor, Consumption & the Environment in the New Global Economy**

(A-F only; )  
56099 001 LEC, 09:45-11:00 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 SOC 3215; Rachel Schurman ; 3 cr.

**3225 Global Philanthropy, Charity & Power**

(Student Option; )  
66335 001 DIS, 14:30-15:45 TTh, Blegen Hall 260, In Person Term Based; Meets With: 001 SOC 3225; Rachel Schurman ; 3 cr.

**3412 What is Equality?**

(A-F only; CIV)  
66139 001 LEC, 13:00-14:15 TTh, Blegen Hall 140, In Person Term Based; Ajay Skaria ; 3 cr.

**3896 Global Studies Internship**

(A-F or Audit; Prereq: dept consent)  
53645 001 LEC, 13:25-15:20 M, Blegen Hall 225, In Person Term Based; Barbara Frey ; 3 cr.

**3909 Topics in Global Studies**

(Student Option; )  
66398 001 LEC, 17:30-20:00 M, Twin Cities Remote, Completely Online; Hassan Abdel Salam ; 1-5 cr.

**3969 Democracy and popular politics in India**

(A-F or Audit; )  
68119 001 LEC, 09:45-11:00 TTh, Blegen Hall 145, In Person Term Based; Meets With: 001 HIST 3489; Ajay Skaria ; 3 cr.

**3981W Capstone Seminar**

(A-F or Audit; Prereq: dept consentWI)  
53049 001 LEC, 16:00-18:30 W, Blegen Hall 260, In Person Term Based; Meets With: 001 GLOS 3985V; Danielle Dadrás ; 3 cr.  
54727 002 LEC, 14:30-17:00 T, Blegen Hall 225, In Person Term Based; Meets With: 002 GLOS 3985V; Sam Poindexter ; 3 cr.

**3985V Honors Capstone Seminar**

(A-F only; Prereq: dept consentWI)  
53347 001 LEC, 16:00-18:30 W, Blegen Hall 260, In Person Term Based; Meets With: 001 GLOS 3981W; Danielle Dadrás ; 3 cr.  
54728 002 LEC, 14:30-17:00 T, Blegen Hall 225, In Person Term Based; Meets With: 002 GLOS 3981W; Sam Poindexter ; 3 cr.

**3993 Directed Study**

(Student Option; Prereq instr consent, dept consent, college consent.)  
53063 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**5403 Human Rights Advocacy**

(Student Option; Prereq: Grad student)  
54801 001 LEC, 14:30-17:15 W, Blegen Hall 330, In Person Term Based; Meets With: 001 LAW 6058; Barbara Frey ; 3 cr.

**5993 Directed Studies**

(Student Option; )  
54794 001 IND, In Person Term Based; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq instr consent, dept consent, college consent.)  
54795 001 IND, In Person Term Based; 1-4 cr.

**Graduate School (GRAD)****5102 Preparation for University Teaching for Nonnative English Speakers**

(S-N or Audit; Prereq: English Language Proficiency Rating of 4; Contact instructor for permission number.)  
58881 001 LEC, 16:40-17:30 M, Bruininks Hall 530A, Partially Online; Elena Stetsenko, Barbara Beers ; 2 cr.  
58886 003 LAB, 12:20-13:10 Th, Univ Ofc Plaza 124, Primarily Online; Barbara Beers, Elena Stetsenko ; 2 cr.  
58887 005 LAB, 13:25-14:15 Th, Univ Ofc Plaza 124, Primarily Online; Elena Stetsenko, Barbara Beers ; 2 cr.  
58888 008 LAB, 14:30-15:20 W, Univ Ofc Plaza 124, Primarily Online; Elena Stetsenko, Barbara Beers ; 2 cr.

**5105 Practicum in University Teaching for Nonnative English Speakers**

(S-N or Audit; Prereq: 5102 or English Language Proficiency Rating of 2; Contact instructor for permission number.)  
58882 001 LEC, 16:40-17:30 M, Bruininks Hall 131A, Partially Online; Barbara Beers ; 1-2 cr.  
58883 002 LAB, 13:25-14:15 T, Univ Ofc Plaza 124, Primarily Online; Barbara Beers ; 1-2 cr.

58884 003 LAB, 15:35-16:25 T, Room TBA, Primarily Online; Barbara Beers ; 1-2 cr.  
 58885 004 LAB, 09:05-09:55 W, Univ Ofc Plaza 124, Primarily Online; Barbara Beers ; 1-2 cr.  
 58890 006 LAB, 12:20-13:10 W, Univ Ofc Plaza 124, Primarily Online; Barbara Beers ; 1-2 cr.

## Grand Challenge Curriculum (GCC)

### 1911 Eleven Billion People: Can the Earth Sustain Humanity?

(A-F only; ENV)  
 66634 001 LEC, 13:00-14:15 TTh, Bruininks Hall 420A, In Person Term Based; Ashok Singh ; 3 cr.

### 3011 Pathways to Renewable Energy

(A-F only; Prereq: sophomore, junior, seniorTS)  
 68687 001 LEC, 15:35-16:25 MWF, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 5011; Beth Mercer-Taylor, Uwe Kortshagen ; 3 cr.

### 3013 Making Sense of Climate Change - Science, Art, and Agency

(A-F only; CIV)  
 64817 001 LEC, 14:30-15:45 TTh, Regis Center for Art E136, In Person Term Based; Meets With: 001 GCC 5013; Christine Baeumler, Rebecca Montgomery ; 3 cr.

### 3016 Science and Society: Working Together to Avoid the Antibiotic Resistance Apocalypse

(A-F only; TS)  
 64790 001 LEC, 11:45-13:00 MW, Veterinary Science 215, In Person Term Based; Meets With: 001 GCC 5016; Tim Johnson, James Johnson, Dawn Foster Hartnett ; 3 cr.

### 3025 Seeking the Good Life at the End of the World: Sustainability in the 21st Century

(A-F only; CIV)  
 66859 001 LEC, 14:30-15:45 TTh, Folwell Hall 28, In Person Term Based; Jessica Hellmann, Daniel Philippon ; 3 cr.

### 3029 Agents of Change: scientific and philosophical perspectives

(A-F only; CIV)  
 67809 001 LEC, 11:15-12:30 MW, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 5029; Melissa Koenig, Valerie Tiberius ; 3 cr.

### 3031 The Global Climate Challenge: Creating an Empowered Movement for Change

(A-F only; Prereq: soph, jr, srCIV)  
 64791 001 LEC, 15:45-18:30 T, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 5031; Julia Nerbonne, Jessica Gutknecht, Teddie Potter ; 3 cr.

### 3032 Ecosystem Health: Leadership at the Intersection of Humans, Animals, and the Environment

(A-F only; ENV)  
 64802 001 LEC, 15:00-18:00 Th, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 5032; Liz Sopdie, PhD, Shaun Kennedy ; 3 cr.

### 3043 Regenerative Game Studio: Playing For the Future

(A-F only; ENV)  
 66870 001 LEC, 15:00-17:40 W, Peik Hall 28, In Person Term Based; Meets With: 001 GCC 5043; Aaron Hanson, Andrew Butts, Jonee Brigham, Kimberly Byrd ; 3 cr.

### 5011 Pathways to Renewable Energy

(A-F only; TS)  
 68688 001 LEC, 15:35-16:25 MWF, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 3011; Beth Mercer-Taylor, Uwe Kortshagen ; 3 cr.

### 5013 Making Sense of Climate Change - Science, Art, and Agency

(A-F only; CIV)  
 64818 001 LEC, 14:30-15:45 TTh, Regis Center for Art E136, In Person Term Based; Meets With: 001 GCC 3013; Christine Baeumler, Rebecca Montgomery ; 3 cr.

### 5016 Science and Society: Working Together to Avoid the Antibiotic Resistance Apocalypse

(A-F only; TS)  
 64806 001 LEC, 11:45-13:00 MW, Veterinary Science 215, In Person Term Based; Meets With: 001 GCC 3016; Tim Johnson, James Johnson, Dawn Foster Hartnett ; 3 cr.

### 5029 Agents of Change: scientific and philosophical perspectives

(A-F only; CIV)  
 67810 001 LEC, 11:15-12:30 MW, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 3029; Melissa Koenig, Valerie Tiberius ; 3 cr.

### 5031 The Global Climate Challenge: Creating an Empowered Movement for Change

(A-F only; CIV)  
 64792 001 LEC, 15:45-18:30 T, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 3031; Julia Nerbonne, Jessica Gutknecht, Teddie Potter ; 3 cr.

### 5032 Ecosystem Health: Leadership at the intersection of humans, animals and the environment

(A-F only; ENV)  
 64803 001 LEC, 15:00-18:00 Th, Bruininks Hall 131A, In Person Term Based; Meets With: 001 GCC 3032; Liz Sopdie, PhD, Shaun Kennedy ; 3 cr.

### 5043 Regenerative Game Studio: Playing For the Future

(A-F only; ENV)  
 66871 001 LEC, 15:00-17:40 W, Peik Hall 28, In Person Term Based; Meets With: 001 GCC 3043; Aaron Hanson, Andrew Butts, Jonee Brigham, Kimberly Byrd ; 3 cr.

### 5501 Knowledge to Impact: Creating Action with Your Grand Challenge Project Idea

(A-F only; )  
 67824 001 LEC, 09:00-12:00 F, Bruininks Hall 530A, In Person Term Based; Megan Voorhees, Anthony Loyd, Andrea Davila ; 2 cr.

## Graphic Design (GDES)

### 1311 Foundations: Drawing and Design in Two and Three Dimensions

(A-F or Audit; )  
 50170 001 LAB, 08:30-11:30 MW, McNeal Hall 258, In Person Term Based; 4 cr.  
 50171 002 LAB, 11:45-14:45 TTh, McNeal Hall 258, In Person Term Based; 4 cr.  
 50427 003 LAB, 15:00-18:00 MW, McNeal Hall 258, In Person Term Based; 4 cr.  
 65851 004 LAB, 15:00-18:00 MW, McNeal Hall 475, In Person Term Based; Frances Trice ; 4 cr.

### 1312 Foundations: Color and Design in Two and Three Dimensions

(A-F or Audit; )  
 50172 001 LAB, 11:45-13:15 W, ONLINE BLENDED, 11:45-13:15 W, McNeal Hall 262, Partially Online; 4 cr.  
 50173 002 LAB, 11:45-13:15 M, ONLINE BLENDED, 11:45-13:15 M, McNeal Hall 262, Partially Online; 4 cr.  
 50350 003 LAB, 15:00-16:30 W, ONLINE BLENDED, 15:00-16:30 W, McNeal Hall 262, Partially Online; 4 cr.  
 50428 004 LAB, 13:15-14:45 M, ONLINE BLENDED, 13:15-14:45 M, McNeal Hall 262, Partially Online; 4 cr.

### 1315 Foundations: The Graphic Studio

(A-F or Audit; Prereq: Graphic design premajor design minor or instr consent)  
 50174 001 LAB, 08:30-11:30 MW, McNeal Hall 233, In Person Term Based; 4 cr.  
 50175 002 LAB, 11:45-14:45 TTh, McNeal Hall 233, In Person Term Based; 4 cr.  
 50358 003 LAB, 15:00-18:00 TTh, McNeal Hall 233, In Person Term Based; 4 cr.

### 2196 Work Experience in Graphic Design

(S-N only; Prereq: Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent)  
 50176 001 FWK, Independent/Directed Study; James Boyd Brent ; 1-4 cr.  
 50177 002 FWK, Independent/Directed Study; Sauman Chu ; 1-4 cr.

50178 003 FWK, Independent/Directed Study; Brad Hokanson ; 1-4 cr.  
 50179 004 FWK, Independent/Directed Study; Daniel Jasper ; 1-4 cr.  
 50181 007 FWK, Independent/Directed Study; Carol Waldron ; 1-4 cr.  
 50325 005 FWK, Independent/Directed Study; Eugene Park ; 1-4 cr.  
 50490 008 FWK, In Person Term Based; Frances Trice ; 1-4 cr.

### 2342 Web Design

(A-F only; )  
 50300 001 LAB, 08:30-10:25 MW, , In Person Term Based; 3 cr.  
 50359 002 LAB, 12:50-14:45 MW, McNeal Hall 144, In Person Term Based; 3 cr.  
 50494 003 LAB, 08:30-10:25 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 2345 Typography

(A-F only; )  
 50182 001 LAB, 11:45-14:45 MW, McNeal Hall 336, In Person Term Based; 4 cr.  
 50430 002 LAB, 11:45-14:45 TTh, McNeal Hall 250, In Person Term Based; 4 cr.

### 2361 Design Process: Photography

(A-F only; )  
 50360 001 LAB, 11:45-13:40 TTh, McNeal Hall 316, In Person Term Based; 3 cr.

### 2399V Design and its Discontents: Design, Society, Economy, and Culture

(A-F only; WI)  
 50370 001 LEC, 18:15-19:45 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 GDES 2399W; 3 cr.

### 2399W Design and its Discontents: Design, Society, Economy, and Culture

(A-F only; WI)  
 50301 001 LEC, 18:15-19:45 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 GDES 2399V; 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)  
 50339 001 LAB, 08:30-10:25 TTh, McNeal Hall 262, In Person Term Based; Meets With: 001 GDES 5311; 3 cr.  
 50489 002 LAB, 08:30-10:25 TTh, McNeal Hall 258, In Person Term Based; 3 cr.

### 3312 Color and Form in Surface Design

(A-F only; )  
 50183 001 LAB, 15:00-18:00 MW, McNeal Hall B9, In Person Term Based; 4 cr.  
 50184 002 LAB, 08:30-11:30 TTh, McNeal Hall B9, In Person Term Based; 4 cr.  
 50361 003 LAB, 18:15-21:15 TTh, McNeal Hall B9, In Person Term Based; 4 cr.

### 3351 Text and Image

(A-F or Audit; Prereq: [2345 or DHA 2345], graphic design major, pass portfolio review)  
 50362 002 LAB, 11:45-13:40 TTh, McNeal Hall 144, In Person Term Based; Daniel Jasper ; 3 cr.  
 50363 003 LAB, 15:00-16:55 TTh, McNeal Hall 146, In Person Term Based; 3 cr.

### 3352 Identity and Symbols

(A-F only; Prereq: pass portfolio review, graphic design major)  
 50185 001 LAB, 08:30-10:25 TTh, McNeal Hall 336, In Person Term Based; Meets With: 001 GDES 3352H; 3 cr.

### 3352H Honors: Identity and Symbols

(A-F only; )  
 50372 001 LAB, 08:30-10:25 TTh, McNeal Hall 336, In Person Term Based; Meets With: 001 GDES 3352; 3 cr.

### 3353 Packaging and Display

(A-F only; )  
 50186 001 LAB, 11:45-13:40 MW, McNeal Hall 250, In Person Term Based; 3 cr.  
 50391 002 LAB, 11:45-13:40 TTh, McNeal Hall 262, In Person Term Based; 3 cr.

### 4160H Honors Capstone Project

(A-F only; Prereq: Graphic design honors)  
 50187 001 LEC, In Person Term Based; James Boyd Brent ; 2 cr.

50188 002 LEC, In Person Term Based; Sauman Chu ; 2 cr.  
50189 003 LEC, In Person Term Based; Brad Hokanson ; 2 cr.  
50190 004 LEC, In Person Term Based; 2 cr.  
50193 007 LEC, In Person Term Based; Carol Waldron ; 2 cr.  
50288 008 LEC, In Person Term Based; Eugene Park ; 2 cr.

**4193 Directed Study in Graphic Design**

(Student Option No Audit; Prereq: Undergrad, instr consent)  
50194 001 IND, Independent/Directed Study; James Boyd Brent ; 1-4 cr.  
50195 002 IND, Independent/Directed Study; Sauman Chu ; 1-4 cr.  
50196 003 IND, Independent/Directed Study; Brad Hokanson ; 1-4 cr.  
50197 004 IND, Independent/Directed Study; Daniel Jasper ; 1-4 cr.  
50199 005 IND, Independent/Directed Study; Eugene Park ; 1-4 cr.  
50450 007 IND, Independent/Directed Study; Carol Waldron ; 1-4 cr.  
50493 008 IND, Independent/Directed Study; Debra Lawton ; 1-4 cr.  
50515 009 IND, Independent/Directed Study; Karl Engbretson ; 1-4 cr.  
66330 010 IND, Independent/Directed Study; Cecilia Wang ; 1-4 cr.  
69653 011 IND, Independent/Directed Study; Frances Trice ; 1-4 cr.

**4196 Internship in Graphic Design**

(S-N or Audit; Prereq: Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent)  
50200 001 FWK, Independent/Directed Study; James Boyd Brent ; 1-3 cr.  
50201 002 FWK, Independent/Directed Study; Sauman Chu ; 1-3 cr.  
50202 003 FWK, Independent/Directed Study; Brad Hokanson ; 1-3 cr.  
50203 004 FWK, Independent/Directed Study; Daniel Jasper ; 1-3 cr.  
50204 006 FWK, Independent/Directed Study; Teresa (Terri) Moses ; 1-3 cr.  
50326 005 FWK, Independent/Directed Study; Eugene Park ; 1-3 cr.  
50451 007 FWK, Independent/Directed Study; Carol Waldron ; 1-3 cr.  
50519 008 FWK, Independent/Directed Study; Frances Trice ; 1-3 cr.  
66331 009 FWK, Independent/Directed Study; Cecilia Wang ; 1-3 cr.

**4312 Advanced Graphic Design Print Projects**

(A-F or Audit; )  
65887 001 LAB, 11:45-13:40 MW, , In Person Term Based; 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)  
50205 001 LAB, 15:00-18:00 MW, McNeal Hall 336, In Person Term Based; 4 cr.  
50299 002 LAB, 08:30-11:30 MW, McNeal Hall 475, In Person Term Based; 4 cr.

**4361V Honors Thesis Studio and Writing**

(A-F only; Prereq: [Graphic design major, 2399W or 2399V, 3352 or 3352H, 3353], honors student, or instr consent(WI))  
50371 001 LAB, 15:00-16:15 TTh, McNeal Hall 262, In Person Term Based; Meets With: 001 GDES 4361W; 3 cr.

**4361W Thesis Studio and Writing**

(A-F only; Prereq: [Graphic design major, 2399W, 3352, 3353] or instr consent(WI))  
50316 001 LAB, 15:00-16:15 TTh, McNeal Hall 262, In Person Term Based; Meets With: 001 GDES 4361V; 3 cr.

**4362 Senior Thesis and Exhibition**

(A-F only; )  
50317 001 LAB, 08:30-10:25 TTh, McNeal Hall 144, In Person Term Based; Meets With: 001 GDES 4362H; 3 cr.  
50385 002 LAB, 08:30-10:25 TTh, McNeal Hall 146, In Person Term Based; 3 cr.

**4362H Senior Thesis and Exhibition**

(A-F only; )  
50373 001 LAB, 08:30-10:25 TTh, McNeal Hall 144, In Person Term Based; Meets With: 001 GDES 4362; 3 cr.

**4363 Graphic Design Portfolio**

(S-N only; )  
50341 001 LAB, 11:45-13:40 MW, Biological Sciences Ctr 64, In Person Term Based; 3 cr.

**4371 Data Visualization Studio**

(A-F only; Prereq: 2345, [Design minors required to take 2345], or graduate student, or instructor's consent)  
50352 001 LAB, 11:45-13:40 MW, McNeal Hall 146, In Person Term Based; Meets With: 001 GDES 5371; 3 cr.

**5193 Directed Study in Graphic Design**

(A-F or Audit; Prereq: Jr or sr or grad student)  
50206 001 IND, Independent/Directed Study; James Boyd Brent ; 1-4 cr.  
50207 002 IND, Independent/Directed Study; Sauman Chu ; 1-4 cr.  
50208 003 IND, Independent/Directed Study; Brad Hokanson ; 1-4 cr.  
50209 004 IND, Independent/Directed Study; 1-4 cr.  
50211 007 IND, Independent/Directed Study; Carol Waldron ; 1-4 cr.  
50327 005 IND, Independent/Directed Study; Eugene Park ; 1-4 cr.  
66332 008 IND, Independent/Directed Study; Cecilia Wang ; 1-4 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)  
50340 001 LAB, 08:30-10:25 TTh, McNeal Hall 262, In Person Term Based; Meets With: 001 GDES 3311; 3 cr.

**5371 Data Visualization Studio**

(A-F only; )  
50367 001 LAB, 11:45-13:40 MW, McNeal Hall 146, In Person Term Based; Meets With: 001 GDES 4371; 3 cr.

**5383 Digital Illustration and Animation**

(A-F or Audit; Prereq: [[2334 or 2342], design minor], [graphic design major or [grad student, experience with computer illustration]] or instr consent)  
65889 001 LAB, 08:30-10:25 MW, McNeal Hall 146, In Person Term Based; 3 cr.

**5386 Fundamentals of Game Design**

(A-F or Audit; Prereq: [[2334 or 2342], design minor] or [[4384 or DHA 4384 or 5341 or DHA 5341], [graphic design major or sr or grad student]] or instr consent)  
50449 001 LAB, 11:45-13:40 TTh, McNeal Hall 336, In Person Term Based; 3 cr.

**Greek (GRK)****1002 Beginning Classical Greek II**

(Student Option; Prereq: Grade of at least C- or S in 1001 or dept consent)  
54389 001 LEC, 11:15-12:05 MTWThF, Burton Hall 123, In Person Term Based; Joshua Reno ; 5 cr.

**3004 Intermediate Greek Poetry**

(Student Option; Prereq: dept consent)  
54131 001 LEC, 13:25-14:15 MTWTh, Nicholson Hall 201, In Person Term Based; Meets With: 001 GRK 5004; Nita Krevans ; 4 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent)  
52758 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 1-4 cr.

**4951W Major Project**

(A-F only; Prereq: Greek major, three 3xxx Greek courses, instr consent, dept consent(WI))  
53040 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 4 cr.

**5004 Intermediate Greek Poetry for Graduate Student Research**

(Student Option; Prereq: dept consent)  
54928 001 LEC, 13:25-14:15 MTWTh, Nicholson Hall 201, In Person Term Based; Meets With: 001 GRK 3004; Nita Krevans ; 4 cr.

**5100 Advanced Reading**

(Student Option; Prereq: [GRK 3004 or equiv], at least two yrs of college level Greek. Must contact Classical and Near Eastern Studies department for permission to register.)  
69673 001 LEC, 09:45-11:00 TTh, Nicholson Hall 201, In Person Term Based; Spencer Cole ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq Grad student or instr consent.)  
52759 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq Grad student or instr consent.)  
52761 001 IND, In Person Term Based; Charles McNamara ; 1-12 cr.

**5996 Directed Instruction**

(Student Option; Prereq Grad student or instr consent.)  
52760 001 IND, In Person Term Based; Charles McNamara ; 1-12 cr.

**Health Informatics (HINF)****5394 Directed Research**

(Student Option No Audit; )  
49923 001 IND, In Person Term Based; Jessica Nielson ; 1-6 cr.

**5430 Foundations of Health Informatics I**

(Student Option; Prereq: Junior, senior, grad student, professional student, or instr consent)  
49926 002 LEC, Completely Online; 3 cr.

**5431 Foundations of Health Informatics II**

(Student Option; Prereq: Junior, senior, grad student, professional student, or instr consent)  
49876 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Chih-Lin Chi ; 3 cr.

**5440 Foundations of Translational**

**Bioinformatics**  
(A-F or Audit; Prerequisites: MS, PhD, or MD/PhD student interested in translational bioinformatics)  
49889 001 LEC, Completely Online; Steven Shen ; 3 cr.

**5496 Internship in Health Informatics**

(S-N or Audit; Prereq: HINF student or instr consent)  
49863 001 FWK, Independent/Directed Study; David Pieczkiewicz ; 1-6 cr.  
69120 002 FWK, In Person Term Based; Gyorgy Simon ; 1-6 cr.

**5499 Capstone Project for the Masters of Health Informatics**

(S-N only; Prereq: second semester MHI student or instr consent)  
49870 001 FWK, 00:00-00:00 , , Independent/Directed Study; Terrence Adam ; 3 cr.

**5502 Python Programming Essentials for the Health Sciences**

(S-N or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)  
49878 001 LEC, 00:00-00:00 , ONLINE, Completely Online; James Rosenthal ; 1 cr.

**5520 Informatics Methods for Health Care Quality, Outcomes, and Patient Safety**

(Student Option; Prereq: Junior or senior or grad student or professional student or instr consent)  
49887 001 LEC, 14:00-14:50 MW, Twin Cities Remote, Completely Online; Terrence Adam ; 2 cr.  
69523 002 LEC, Completely Online; Terrence Adam ; 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)  
49879 001 LEC, 15:35-16:25 MWF, Moos Health Sci Tower 1-430, In Person Term Based; David Pieczkiewicz ; 3 cr.  
49884 002 LEC, 00:00-00:00 , ONLINE, Completely Online; David Pieczkiewicz ; 3 cr.

**5620 Data Visualization for the Health Sciences**

(A-F or Audit; )  
49927 001 LEC, 16:00-17:15 Th, Moos Health Sci Tower 1-430, In Person Term Based; David Pieczkiewicz ; 3 cr.

**5630 Clinical Data Mining**

(Student Option No Audit; Prerequisites: Basic linear algebra (matrix notation), basic optimization (gradient descent) Graduate level introductory statistics (e.g. STAT 5101-5102) or equivalent or instructor consent)  
69122 001 LAB, 10:10-13:10 T, No Room Required, In Person Term Based; Gyorgy Simon ; 3 cr.

69123 002 LAB, 10:10-13:10 T, Twin Cities Remote,  
Completely Online; Gyorgy Simon ; 3 cr.

### 5660 Applied Causal Discovery

(Student Option; )  
68392 001 LEC, 09:30-11:00 F, Twin Cities Remote,  
15:50-17:20 W, Twin Cities Remote, Completely Online;  
Erich Kummerfeld ; 3 cr.

## Health Services Management (HSM)

### 3040 Dying and Death in Contemporary Society: Implications for Intervention

(Student Option; Prerequisite: sophomore )  
64685 301 LEC, Completely Online; Ellen Koski ; 2 cr.

### 3051 Career and Internship Skills in Health Services Management

(A-F or Audit; Prerequisites: HSM major or premajor; WRIT 1301 or 1401 or equivalent; HSM 3521; HSM 4561. )

64646 301 LEC, Completely Online; Nickolas Nyhus,  
Elizabeth Hruska ; 2 cr.

### 3101 Applied Health Economics

(A-F only; Prerequisites: None, but successful completion of a course in introductory microeconomics is strongly recommended. )

66902 001 LEC, 16:30-19:15 T, Rapson Hall 56, In Person Term Based; Eric Christensen ; 3 cr.

### 3521 Health Care Delivery Systems

(A-F or Audit; Prereq: 30 cr)  
64580 101 LEC, 18:00-20:45 T, Bruininks Hall 412, Partially Online; Frances Fernandez, Frederick Bw-Ombongi ; 3 cr.

### 4041 Leadership in Health Services Management

(A-F or Audit; )  
64668 101 LEC, 11:15-14:10 Th, Amundson Hall 240,  
Partially Online; John Reynolds, Yvonne Kinney ; 3 cr.

### 4043 Project and Program Management in Health Services Management

(A-F or Audit; Prerequisites: None)  
64647 101 LEC, 11:15-14:00 W, Twin Cities Remote,  
Completely Online; Scott Lee-Eichenwald, Cheri Jacoby ; 3 cr.

### 4065 Information Privacy and Security in Health Services Management

(A-F or Audit; TS)  
64648 301 LEC, Completely Online; Scott Lee-Eichenwald ; 3 cr.

### 4301 Health Care Quality & Patient Safety Management

(A-F or Audit; )  
64613 101 LEC, 15:35-18:20 Th, Bruininks Hall 432, Partially Online; Jennifer Schoenecker ; 3 cr.

### 4521 Inclusion and Equity in Health Care Management

(A-F or Audit; Prerequisites: None)  
66763 301 LEC, Completely Online; Frances Fernandez ; 3 cr.

### 4531 Human Resources in Health Care Settings

(A-F or Audit; Prereq: 45 cr)  
64598 101 LEC, 18:35-21:20 Th, Bruininks Hall 412, Partially Online; Donald Moschkau, Erich Spencer ; 3 cr.

### 4541 Health Care Finance

(A-F or Audit; Prereq: Basic accounting knowledge, a course such as ACCT 2050, and knowledge of Microsoft Excel are strongly recommended. HSM pre-majors should wait for major status to take this course.)

64628 301 LEC, Completely Online; Steven Chies, Daniel Trajano ; 3 cr.

### 4561W Health Care Administration and Management

(A-F or Audit; WI)  
64581 001 LEC, 18:00-20:45 W, Bruininks Hall 330, In Person Term Based; Bill Kenney ; 3 cr.

### 4572 Gerontology and Geriatrics for Health Services Executives

(A-F or Audit; Prerequisite: Students must have some basic knowledge of the long term care field. Those without it are encouraged to meet with the instructor prior to registering to explore learning strategies. )

64672 101 LEC, 13:25-16:10 W, Keller Hall 2-260, Partially Online; Kari Everson ; 3 cr.

### 4575 Innovation in Health Services

(A-F or Audit; )  
64649 101 LEC, 17:30-20:15 M, Amundson Hall 116,  
Partially Online; Barbara Spurrier, Andrew Montpetit ; 3 cr.

### 4582 Practicum in Long Term Care

(A-F or Audit; Prereq: Most prelicensure courses completed--at a minimum, HSM 4583/6583-LTC Supports and Services; HSM 4585/6585 -LTC Organizational Management; HSM 4589/6589-LTC Human Resource Management; HSM 4593/6593-Gerontology for Health Care Managers.)

64630 401 LEC, Independent/Directed Study; Rajean Moore ; 1 cr.

### 4583 Long Term Care Supports and Services

(A-F or Audit; Prerequisites: Some basic knowledge of the long-term care field. Students without this knowledge are encouraged to meet with the instructor to explore preparation strategies. )

64629 301 LEC, Completely Online; Rajean Moore ; 2 cr.

### 4584 Long Term Care Health and Medical Needs

(A-F or Audit; Prerequisite: Basic knowledge of the long-term care field. Students who do not have this knowledge are encouraged to meet with the instructor to discuss strategies for obtaining it prior to registering for this course. )

66772 301 LEC, Completely Online; Kari Everson ; 1 cr.

### 4585 Long Term Care Organizational Management

(A-F or Audit; Prereq: Basic knowledge of the long term care field. Students without this knowledge are encouraged to consult with the instructor prior to registering to explore preparatory strategies. )

66774 301 LEC, Completely Online; Roger White ; 1 cr.

### 4586 Management in Assisted Living and Senior Care Settings

(A-F or Audit; Prerequisites, the successful student must have some basic knowledge of aging services and/or the long term care field. Students who are unfamiliar with this field are encouraged to meet with the instructor prior to registering for this course. )

66776 301 LEC, Completely Online; Joshua Berg ; 3 cr.

### 4587 Long Term Care Regulatory Management

(A-F or Audit; Prereq: Basic knowledge of the long term care field. Students without this knowledge are encouraged to meet with the instructor prior to registering to discuss options. )

64631 101 LEC, 08:30-16:30 Th, Twin Cities Remote,  
Completely Online; Kari Everson ; 1 cr.

### 4588 Long Term Care Quality Management and Performance Improvement

(A-F or Audit; Prerequisites: Basic knowledge of the long term care field. Students without this knowledge are encouraged to meet with the instructor prior to registering to discuss ways of acquiring it. Skill with Excel is strongly recommended. )

65114 301 LEC, Completely Online; Rajean Moore ; 2 cr.

### 4591 Health Care Law and Ethics

(A-F or Audit; )  
64602 301 LEC, Completely Online; Susan Ziel ; 3 cr.

### 4592 Long Term Care Health Care Law

(A-F or Audit; Prerequisites: Knowledge of the long-term care field. Students who do not have this knowledge are encouraged to meet with the instructor prior to registering to discuss strategies for gaining this knowledge. )

64633 101 LEC, 08:30-16:30 W, Twin Cities Remote,  
Completely Online; Kari Everson ; 1 cr.

### 4593 Gerontology for Health Care Managers

(A-F or Audit; Prerequisites: Knowledge of the long-term care field. Students without this knowledge are encouraged to meet with the instructor prior to registering to discuss strategies for acquiring it. )

64632 301 LEC, Completely Online; Rajean Moore ; 1 cr.

### 4596 Health Services Management Internship

(A-F only; Prereq: HSM major; dept. consent. Permission to enroll will be granted only upon completion of HSM 3051, 3521, 4531, 4541, 4561W, & 4591. Highly recommended: HSM 4043 & 4301 (and HINF 5430 for HSM technology internships.)

64603 401 FWK, Independent/Directed Study; Steve Comingdeer ; 1 cr.

### 4861 Leadership and Business Planning in Health Care: Capstone

(A-F only; Prereq: HSM 3521, 4531, 4541, 4561, 4591. HSM major. Final year status required.)

64608 101 LEC, 13:25-16:10 M, Peik Hall 28, Partially Online; Geoffrey Kaufmann, Daniel McGinty ; 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)

53041 001 LEC, 11:15-12:05 MTWThF, Twin Cities Remote,  
Completely Online; Meets With: 001 HEBR 4002; Renana Schneller ; 5 cr.

### 3012 Intermediate Hebrew II

(Student Option; Prereq: Grade of at least [C- or S] in 3011 or instr consent)

53043 001 LEC, 10:10-11:00 MTWThF, Twin Cities Remote,  
Completely Online; Meets With: 001 HEBR 4012; Renana Schneller ; 5 cr.

### 3951W Major Project

(Student Option; Prereq: [Hebr major, three 3xxx Hebrew courses], instr consent, dept consentWI)

53045 001 IND, In Person Term Based; 4 cr.

### 3980 Directed Instruction

(Student Option; Prereq college consent. )

52762 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent)

53584 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

### 4002 Beginning Hebrew II for Graduate Student Research

(Student Option; Prereq: Grade of at least [C- or S] in [1001 or 4001] or instr consent)

53358 001 LEC, 11:15-12:05 MTWThF, Twin Cities Remote,  
Completely Online; Meets With: 001 HEBR 1002; Renana Schneller ; 5 cr.

### 4012 Intermediate Hebrew II for Graduate Student Research

(Student Option; )

55143 001 LEC, 10:10-11:00 MTWThF, Twin Cities Remote,  
Completely Online; Meets With: 001 HEBR 3012; Renana Schneller ; 5 cr.

### 5992 Directed Readings

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

54219 001 IND, 00:00-00:00 , , In Person Term Based;  
Renana Schneller ; 1-4 cr.

## Higher Ed Consortium Urban Aff (HECU)

### 3555W Making Media & Change: Digital Technologies, Storytelling, and Activism From Consumers to Creators

(A-F only; AH,WI,CIV)

64809 001 DIS, In Person Term Based; 4 cr.

### 3571W Inequality in America: A Political Economy Approach

(A-F only; Prereq: departmental consent requiredWI)

64731 001 DIS, 00:00-00:00 , No Room Required, In Person  
Term Based; David Holliday ; 4 cr.

**3581 Art for Social Change: Art and Culture in Political, Social, and Historical Context (A-F only; AH)**

64707 001 DIS, 00:00-00:00 , No Room Required, In Person  
Term Based; 4 cr.

**3582 Art for Social Change: Arts Praxis - Social Justice Theory and Practice in the Field**

(A-F only; Prereq: concurrent registration is required (or allowed) in 3581, 3583, dept consentDSJ)

64708 001 FWK, 00:00-00:00 , , In Person Term Based;  
David Holliday ; 4 cr.

**3583 Art for Social Change: Intersections of Art, Identity and Advocacy Internship & Integration Seminar**

(A-F only; CIV)

64709 001 FWK, 00:00-00:00 , , In Person Term Based;  
David Holliday ; 8 cr.

## Hindi (HNDI)

**1012 Beginning Hindi II**

(Student Option No Audit; )

55469 001 LEC, 11:15-12:05 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 HNDI 4002; Meraj  
Ahmed ; 5 cr.

**3022 Intermediate Hindi II**

(Student Option No Audit; )

55470 001 LEC, 10:10-11:00 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 HNDI 4004; Meraj  
Ahmed ; 5 cr.

**3032 Advanced Hindi II**

(Student Option No Audit; Prereq: HNDI 3031 or instr  
consent)

67691 001 LEC, 14:30-16:25 MW, Peik Hall 165, In Person  
Term Based; Meets With: 001 HNDI 4006; Meraj Ahmed ;  
4 cr.

**4002 Beginning Hindi II for Graduate Student Research**

(Student Option No Audit; )

55471 001 LEC, 11:15-12:05 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 HNDI 1012; Meraj  
Ahmed ; 5 cr.

**4004 Intermediate Hindi II for Graduate Student Research**

(Student Option No Audit; )

55472 001 LEC, 10:10-11:00 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 HNDI 3022; Meraj  
Ahmed ; 5 cr.

**4006 Advanced Hindi II for Graduate Research**

(Student Option No Audit; Prereq: 4005 or instr  
consent)

67692 001 LEC, 14:30-16:25 MW, Peik Hall 165, In Person  
Term Based; Meets With: 001 HNDI 3032; Meraj Ahmed ;  
4 cr.

## History (HIST)

**1012W The Age of Global Contact**

(Student Option; Prereq: Fr or soph or non-hist  
majorGP,WI,HIS)

68017 002 DIS, 09:05-09:55 F, Twin Cities Remote,  
Completely Online; 4 cr.

68272 001 LEC, 09:45-11:00 TTh, Twin Cities Remote,  
Completely Online; Igor Tchoukarine ; 4 cr.

68273 003 DIS, 10:10-11:00 F, Twin Cities Remote,  
Completely Online; 4 cr.

69505 005 DIS, 10:10-11:00 F, Blegen Hall 225, In Person  
Term Based; 4 cr.

69506 004 DIS, 09:05-09:55 F, Twin Cities Remote,  
Completely Online; 4 cr.

**1082 Jesus in History, Art & Culture**

(Student Option; HIS)

55549 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In  
Person Term Based; Meets With: 001 CNRC 3092001  
CNRC 1082001 RELS 1082001 RELS 3092001 HIST 3092;  
Stephen Ahearne-Kroll ; 3 cr.

56138 003 DIS, 10:10-11:00 F, Nicholson Hall 145, In Person  
Term Based; Meets With: 003 RELS 1082002 CNRC 1082;  
Kristi Lee ; 3 cr.

**1302W Global America: U.S. History Since 1865**

(Student Option; Prereq: Fr or soph or non-hist  
majorDSJ,WI,HIS)

53387 001 LEC, 09:45-11:00 MW, Anderson Hall 210, In  
Person Term Based; Barbara Welke, William Jones ; 4 cr.

53388 002 DIS, 11:15-12:05 M, Blegen Hall 330, In Person  
Term Based; 4 cr.

53389 003 DIS, 11:15-12:05 M, Blegen Hall 335, In Person  
Term Based; 4 cr.

53390 004 DIS, 11:15-12:05 M, Carlson School of Mgmt  
2-219, In Person Term Based; 4 cr.

53391 005 DIS, 12:20-13:10 M, Blegen Hall 335, In Person  
Term Based; 4 cr.

53392 006 DIS, 09:05-09:55 T, Blegen Hall 205, In Person  
Term Based; 4 cr.

53393 007 DIS, 12:20-13:10 M, Carlson School of Mgmt  
2-219, In Person Term Based; 4 cr.

**1362 Global History of World War II**

(Student Option; HIS)

55103 001 LEC, 13:25-14:15 MW, Anderson Hall 270, In  
Person Term Based; Meets With: 001 HIST 3362; Sheer  
Ganor, Daniel Schroeter ; 3 cr.

55321 002 DIS, 13:25-14:15 F, Blegen Hall 260, In Person  
Term Based; 3 cr.

55484 003 DIS, 12:20-13:10 F, Blegen Hall 205, In Person  
Term Based; 3 cr.

68014 004 DIS, 13:25-14:15 F, Blegen Hall 115, In Person  
Term Based; 3 cr.

**1364 Introduction to Global Environmental History**

(Student Option; ENV,HIS)

55598 001 LEC, 08:00-08:50 TTh, Blegen Hall 145, In  
Person Term Based; Zozan Pehlivan ; 3 cr.

55947 002 DIS, 08:00-08:50 F, Blegen Hall 105, In Person  
Term Based; 3 cr.

56247 003 DIS, 09:05-09:55 F, Blegen Hall 105, In Person  
Term Based; 3 cr.

**1365 Global Tourism and the Environment from the late 18th Century to the Present**

(Student Option; ENV,HIS)

68019 001 LEC, 13:00-14:15 TTh, Twin Cities Remote,  
Completely Online; Igor Tchoukarine ; 3 cr.

**3020 Hands-On History**

(A-F only; )

68277 001 LEC, 14:30-17:00 Th, Twin Cities Remote,  
Completely Online; Kirsten Fischer ; 3 cr.

68278 002 LEC, 09:45-11:00 MW, Blegen Hall 205, In  
Person Term Based; Sheer Ganor ; 3 cr.

68956 003 LEC, 09:45-11:00 MW, Twin Cities Remote,  
Completely Online; Mai Na Lee ; 3 cr.

**3052 Ancient Civilization: Greece**

(Student Option; GP,HIS)

56036 001 LEC, 11:15-12:05 MWF, Anderson Hall 230, In  
Person Term Based; Andrew Gallia ; 3 cr.

**3054 Ancient Egypt and its Neighbors**

(Student Option; )

68965 001 LEC, 11:15-12:30 MW, Hubert H. Humphrey  
School 15, In Person Term Based; Eva von Dassow ; 3 cr.

**3061 "Bread and Circuses": Spectacles and Mass Culture in Antiquity**

(Student Option; CIV,HIS)

68394 001 LEC, 13:00-14:15 MW, Elliott Hall N119, In  
Person Term Based; Meets With: 001 CNRC 3061; Andrew  
Gallia ; 3 cr.

**3067W Archaeology of Prehistoric Europe**

(Student Option; HIS,WI)

68395 001 LEC, 09:45-11:00 TTh, Anderson Hall 350, In  
Person Term Based; Meets With: 001 ANTH 5027W001  
ANTH 3027W; Peter Wells ; 3 cr.

**3092 Jesus in History, Art & Culture**

(Student Option; HIS)

55316 002 DIS, 12:20-13:10 F, Nicholson Hall 345, In Person  
Term Based; Meets With: 002 RELS 3092003 CNRC 3092;  
Kristi Lee ; 3 cr.

56139 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In  
Person Term Based; Meets With: 001 HIST 1082001 RELS  
1082001 CNRC 1082001 CNRC 3092001 RELS 3092;  
Stephen Ahearne-Kroll ; 3 cr.

**3101 Introduction to Medieval History**

(Student Option; GP,HIS)

56045 001 LEC, 14:30-15:45 TTh, Anderson Hall 230,  
In Person Term Based; Meets With: 001 MEST 3001;  
Stephan Knott, Elijah Wallace ; 3 cr.

**3152 British History From the Seventeenth Century**

(Student Option; GP,HIS)

68025 001 DIS, 16:00-17:15 TTh, Blegen Hall 215, In Person  
Term Based; Andrew Schumacher Bethke ; 3 cr.

**3211 History of Sexuality in Europe**

(A-F or Audit; )

66527 001 LEC, 13:00-14:15 TTh, Blegen Hall 145, In  
Person Term Based; Anna Clark ; 3 cr.

**3265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime**

(Student Option; )

54652 001 LEC, 10:10-11:00 MWF, Blegen Hall 150,  
In Person Term Based; Meets With: 001 HIST 5265;  
Theofanis Stavrou ; 3 cr.

**3271 The Viking World: Story, History, and Archaeology**

(Student Option; )

68034 001 LEC, 14:30-15:45 MW, Blegen Hall 215, In  
Person Term Based; Meets With: 001 MEST 3271;  
Elizabeth Quillen ; 3 cr.

**3287 Seeing History through Comics: New Perspectives on the Contentious Past**

(Student Option; CIV,HIS)

68966 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey  
School 50B, In Person Term Based; Mary Jo Maynes ; 3 cr.

**3349 U.S. Women's Legal History**

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

68401 001 LEC, 18:20-20:50 M, Hubert H. Humphrey School  
25, In Person Term Based; Barbara Welke ; 3 cr.

**3362 Global History of World War II**

(Student Option; HIS)

55550 001 LEC, 13:25-14:15 MW, Anderson Hall 270, In  
Person Term Based; Meets With: 001 HIST 1362; Sheer  
Ganor, Daniel Schroeter ; 3 cr.

55551 002 DIS, 13:25-14:15 F, Blegen Hall 105, In Person  
Term Based; 3 cr.

55552 003 DIS, 12:20-13:10 F, Blegen Hall 115, In Person  
Term Based; 3 cr.

68016 005 DIS, 12:20-13:10 F, Blegen Hall 105, In Person  
Term Based; 3 cr.

**3402W Modern Latin America 1825 to Present**

(Student Option; GP,WI,HIS)

54775 001 LEC, 10:10-12:05 MW, Blegen Hall 240, In  
Person Term Based; Meets With: 001 LAS 3402W; Patrick  
McNamara ; 4 cr.

**3435 History of South Africa from 1910**

(Student Option; )

68027 001 LEC, 14:30-15:45 MW, Blegen Hall 150, In  
Person Term Based; Meets With: 001 AFRO 3205;  
Ntombizodwa Mpfu ; 3 cr.

**3455 West African History: 1800 to Present**

(Student Option; GP)

68028 001 LEC, 14:30-15:45 TTh, Blegen Hall 155, In  
Person Term Based; Meets With: 001 AFRO 3002; Sarah  
Balakrishnan ; 3 cr.

**3462 From Subjects to Citizens: The History of East Asia From 1500 to the Present**

(Student Option; GP,HIS)

56117 001 DIS, 11:15-12:05 MWF, Blegen Hall 250, In  
Person Term Based; Meets With: 001 HIST 5462001 EAS  
3462; Ann Waltner ; 3-4 cr.

**3487 The Vietnam Wars: French Colonialism and U.S. Intervention in Indochina**

(Student Option; )

66529 001 LEC, 13:00-14:15 MW, Twin Cities Remote,  
Completely Online; Mai Na Lee ; 3 cr.

**3489 Democracy and popular politics in India**

(A-F or Audit; )

56120 001 LEC, 09:45-11:00 TTh, Blegen Hall 145, In Person Term Based; Meets With: 001 GLOS 3969; Ajay Skaria ; 3 cr.

### 3511 Muslims and Jews: Conflict and Co-existence in the Middle East and North Africa since 1700

(Student Option; GP,HIS)  
68264 001 LEC, 16:00-17:15 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 JWST 3511001 RELS 3079; Noam Sienna ; 3 cr.

### 3514 Environmental History of the Middle East and North Africa

(Student Option; )  
68029 001 LEC, 11:15-13:45 Th, Blegen Hall 215, In Person Term Based; Zozan Pehlivan ; 3 cr.

### 3547 The Ottoman Empire

(Student Option; GP,HIS)  
68030 001 LEC, 16:00-17:15 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 RELS 3722; Fikri Cicek ; 3 cr.

### 3611 Medieval Cities of Europe: 500-1500

(Student Option No Audit; GP,HIS)  
56046 001 LEC, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Meets With: 001 MEST 3611; Kathryn Reyerson ; 3 cr.

### 3613 History of the Crusades

(Student Option; GP,HIS)  
68032 001 LEC, 09:45-11:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 MEST 3613; Michael Lower ; 3 cr.

### 3616 The Hundred Years War: France and England in the Middle Ages

(Student Option No Audit; HIS)  
68031 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 MEST 3616; Kathryn Reyerson ; 3 cr.

### 3617 Pagans, Christians, Barbarians: The World of Late Antiquity

(A-F or Audit; GP,HIS)  
68033 001 LEC, 08:15-09:30 TTh, Blegen Hall 130, In Person Term Based; Meets With: 001 RELS 3543001 CNRC 3617001 MEST 3617; Benjamin Hansen ; 3 cr.

### 3721 Studies in 20th-Century Europe From the Turn of the Century to the End of World War II: 1900-45

(Student Option; )  
66509 301 LEC, Completely Online; Kara Barker ; 3 cr.

### 3732 Revolution and Human Rights: The French Revolution and its Legacy

(Student Option; Prerequisites. All materials for Fren 3732 are in English, and students in all programs are welcome! AH,CIV)  
69008 001 LEC, 13:00-14:15 T, Burton Hall 120, In Person Term Based; Meets With: 001 FREN 3632001 FREN 3732; Juliette Cherbuliez ; 3 cr.  
69009 002 DIS, 13:00-14:15 Th, Burton Hall 120, In Person Term Based; Meets With: 002 FREN 3732; Juliette Cherbuliez ; 3 cr.

### 3735 Politics of Ideas: European Thought in 20th Century Contexts

(A-F or Audit; )  
66530 001 LEC, 11:15-12:30 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 HIST 5960; Thomas Wolfe ; 3 cr.

### 3767 Eastern Orthodoxy: History and Culture

(Student Option; )  
54134 090 LEC, 18:20-20:50 M, Blegen Hall 145, In Person Term Based; Meets With: 001 RELS 3611; Theofanis Stavrou ; 3 cr.

### 3797 History of Population

(Student Option; GP,SOCs)  
68311 001 LEC, 13:00-14:15 TTh, Blegen Hall 135, In Person Term Based; Steven Ruggles ; 3 cr.

### 3813W Slavery and the Making of America

(Student Option; DSJ,WI,HIS)  
68036 001 LEC, 11:15-12:30 TTh, Blegen Hall 205, In Person Term Based; Aaron Hall ; 3 cr.

### 3821 United States in the 20th Century to 1945

(Student Option; HIS)  
68037 001 LEC, 18:20-20:50 W, Blegen Hall 145, In Person Term Based; Jayne Kinney ; 3 cr.

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

(Student Option; DSJ,HIS)  
68955 001 LEC, 11:15-12:30 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 AMIN 3871; David Aiona Chang (he, his, ?oia) ; 3 cr.

### 3877 Asian American History, 1850-Present

(Student Option; DSJ,HIS)  
68304 001 LEC, 16:00-18:20 T, Hanson Hall 1-111, In Person Term Based; Meets With: 001 AAS 3877; Erika Lee ; 3 cr.

### 3993 Directed Study

(A-F or Audit; Prereq instr consent, dept consent, college consent.)  
53107 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.

### 4961V Honors: Major Paper

(A-F only; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)  
53932 001 LEC, 11:15-13:10 TTh, Twin Cities Remote, Completely Online; Meets With: 001 HIST 4961W; Kirsten Fischer ; 4 cr.  
68299 002 LEC, 14:30-16:10 TTh, Blegen Hall 230, In Person Term Based; Meets With: 002 HIST 4961W; Aaron Hall ; 4 cr.  
68300 003 LEC, 10:15-11:55 MW, Hubert H. Humphrey School 30, In Person Term Based; Meets With: 003 HIST 4961W; Daniel Schroeter ; 4 cr.

### 4961W Major Paper

(A-F or Audit; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)  
52534 001 LEC, 11:15-13:10 TTh, Twin Cities Remote, Completely Online; Meets With: 001 HIST 4961V; Kirsten Fischer ; 4 cr.  
68021 002 LEC, 14:30-16:10 TTh, Blegen Hall 230, In Person Term Based; Meets With: 002 HIST 4961V; Aaron Hall ; 4 cr.  
68022 003 LEC, 10:15-11:55 MW, Hubert H. Humphrey School 30, In Person Term Based; Meets With: 003 HIST 4961V; Daniel Schroeter ; 4 cr.

### 4970 History Day Mentorship

(Student Option; )  
54274 001 FWK, 15:35-17:30 W, Blegen Hall 317, Independent/Directed Study; Andre Kobayashi Deckrow ; 1 cr.

### 5265 20th-Century Russia: The Collapse of Imperial Russia, the Revolutions, and the Soviet Regime

(Student Option; )  
53574 001 LEC, 10:10-11:00 MWF, Blegen Hall 150, In Person Term Based; Meets With: 001 HIST 3265; Theofanis Stavrou ; 3 cr.

### 5462 From Subjects to Citizens: The History of East Asia From 1500 to the Present

(Student Option; )  
68329 001 DIS, 11:15-12:05 MWF, Blegen Hall 250, In Person Term Based; Meets With: 001 HIST 3462001 EAS 3462; Ann Waltner ; 3 cr.

### 5711 Cognitive History

(Student Option; )  
68289 001 DIS, 15:00-17:30 W, Blegen Hall 130, In Person Term Based; Meets With: 001 HIST 3711; Patrick McNamara ; 3 cr.

### 5890 Readings in American Indian and Indigenous History

(A-F or Audit; Prereq: Advanced undergrad with instr consent or grad student)  
68404 001 LEC, 13:25-15:20 T, Blegen Hall 125, In Person Term Based; Meets With: 001 AMIN 5890; Jean O'Brien ; 3 cr.

### 5891 American Indian and Indigenous Studies Workshop

(S-N or Audit; )

56047 001 DIS, 15:15-17:30 F, Walter W Heller Hall 1210A, In Person Term Based; Jean O'Brien ; 1.5 cr.

### 5960 Topics in History

(Student Option; Prereq: [advanced undergrad with instr consent])  
69698 001 LEC, 11:15-12:30 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 HIST 3735; Thomas Wolfe ; 1-4 cr.

### 5993 Directed Study

(Student Option; Prereq [Grad student or sr], instr consent, dept consent, college consent.)  
53115 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.  
56647 002 IND, In Person Term Based; 1-16 cr.

## History of Medicine (HMED)

### 3002W Health Care in History II

(Student Option; HIS,WI)  
62304 001 LEC, 10:10-11:00 MWF, Rapson Hall 43, In Person Term Based; Christopher Kindell ; 4 cr.  
62305 002 DIS, 11:15-12:05 W, Amundson Hall 104, In Person Term Based; Christopher Kindell ; 4 cr.  
62306 003 DIS, 13:25-14:15 W, Ford Hall 170, In Person Term Based; Christopher Kindell ; 4 cr.  
66399 004 DIS, 10:10-11:00 Th, Amundson Hall 120, In Person Term Based; Christopher Kindell ; 4 cr.

### 3040 Human Health, Disease, and the Environment in History

(Student Option; HIS)  
62702 001 LEC, 14:30-15:45 MW, Bruininks Hall 512A, In Person Term Based; Christopher Kindell ; 3 cr.

### 3055 Women, Health, and History

(A-F only; DSJ,HIS)  
62933 001 LEC, 09:45-11:00 TTh, Bruininks Hall 512A, In Person Term Based; Jennifer Gunn ; 3 cr.

### 3315 Early Modern Medicine in the Arts and Literature

(Student Option; AH)  
67777 001 LEC, 13:00-14:15 TTh, Ford Hall 127, In Person Term Based; Jole Shackelford ; 3 cr.

### 3993 Directed Study

(Student Option; )  
63298 001 IND, In Person Term Based; Jennifer Gunn ; 1-4 cr.

## History of Science and Tech (HSCI)

### 1011 Digital World

(Student Option; HIS,TS)  
61147 001 LEC, 12:20-13:10 MW, Twin Cities Remote, Completely Online; Honghong Tinn ; 3 cr.  
61212 002 DIS, 15:35-16:25 W, Akerman Hall 227, In Person Term Based; Honghong Tinn ; 3 cr.  
61213 003 DIS, 14:30-15:20 W, Bruininks Hall 119, In Person Term Based; Honghong Tinn ; 3 cr.  
61214 004 DIS, 10:10-11:00 Th, Rapson Hall 58, In Person Term Based; Honghong Tinn ; 3 cr.  
61215 005 DIS, 12:20-13:10 Th, Bruininks Hall 117, In Person Term Based; Honghong Tinn ; 3 cr.  
61216 006 DIS, 09:05-09:55 F, Bruininks Hall 119, In Person Term Based; Honghong Tinn ; 3 cr.  
61217 007 DIS, 11:15-12:05 F, Bruininks Hall 119, In Person Term Based; Honghong Tinn ; 3 cr.  
61406 008 DIS, 11:15-12:05 Th, Ford Hall 151, In Person Term Based; Honghong Tinn ; 3 cr.  
61845 009 DIS, 10:10-11:00 F, Bruininks Hall 119, In Person Term Based; Honghong Tinn ; 3 cr.  
65650 010 DIS, 13:25-14:15 W, Bruininks Hall 119, In Person Term Based; Honghong Tinn ; 3 cr.

### 1212 Life on Earth: Origins, Evolution & Ecology

(Student Option; ENV,HIS)  
60637 001 LEC, 09:45-11:00 TTh, Mayo Bldg & Additions C231, In Person Term Based; John Heydinger ; 4 cr.  
60638 002 DIS, 13:25-14:15 T, Bruininks Hall 117, In Person Term Based; John Heydinger ; 4 cr.  
60639 003 DIS, 10:10-11:00 W, Bruininks Hall 117, In Person Term Based; John Heydinger ; 4 cr.  
60680 004 DIS, 12:20-13:10 W, Bruininks Hall 117, In Person Term Based; John Heydinger ; 4 cr.

60713 005 DIS, 14:30-15:20 Th, Bruininks Hal 121, In Person Term Based; John Heydinger ; 4 cr.

### 1715 History of Modern Technology:

#### Waterwheels to the Web

(Student Option; HIS,TS)

66125 001 LEC, 18:00-20:45 M, Bruininks Hall 330, In Person Term Based; Meets With: 001 HSCI 3715; Mary Thomas ; 3-4 cr.

66126 002 LEC, 18:00-20:45 W, Bruininks Hall 312, In Person Term Based; Meets With: 002 HSCI 3715; Mary Thomas ; 3-4 cr.

### 1815 Making Modern Science: Atoms, Genes and Quanta

(Student Option; GP,HIS)

60896 001 LEC, 10:10-11:00 MWF, Bruininks Hall 412, In Person Term Based; Meets With: 001 HSCI 3815; Michel Janssen ; 3-4 cr.

60897 002 DIS, 11:15-12:05 M, Bruininks Hall 119, In Person Term Based; Meets With: 002 HSCI 3815; Michel Janssen ; 3-4 cr.

60898 003 DIS, 10:10-11:00 T, Bruininks Hall 117, In Person Term Based; Meets With: 003 HSCI 3815; Michel Janssen ; 3-4 cr.

60899 004 DIS, 11:15-12:05 W, Bruininks Hall 119, In Person Term Based; Meets With: 004 HSCI 3815; Michel Janssen ; 3-4 cr.

### 3242 Navigating a Darwinian World

(Student Option; HIS)

60809 001 LEC, 11:15-12:30 TTh, Rapson Hall 58, In Person Term Based; Meets With: 001 HSCI 5242; Mark Borrello ; 3 cr.

### 3421 Engineering Ethics

(Student Option; CIV,HIS)

61269 001 LEC, 10:10-11:00 MWF, Mechanical Engineering 321, In Person Term Based; Meets With: 001 HSCI 5421; Jennifer Alexander ; 3 cr.

### 3611 Enlightenment, Revolution, and the Rise of Modern Science

(Student Option; GP,HIS)

60982 001 LEC, 11:15-12:30 MW, Mechanical Engineering 25, In Person Term Based; Meets With: 001 HSCI 5611; Victor Boantz ; 3 cr.

### 3715 History of Modern Technology:

#### Waterwheels to the Web

(Student Option; HIS,TS)

66127 001 LEC, 18:00-20:45 M, Bruininks Hall 330, In Person Term Based; Meets With: 001 HSCI 1715; Mary Thomas ; 3-4 cr.

66128 002 LEC, 18:00-20:45 W, Bruininks Hall 312, In Person Term Based; Meets With: 002 HSCI 1715; Mary Thomas ; 3-4 cr.

### 3815 Making Modern Science: Atoms, Genes and Quanta

(Student Option; GP,HIS)

60900 001 LEC, 10:10-11:00 MWF, Bruininks Hall 412, In Person Term Based; Meets With: 001 HSCI 1815; Michel Janssen ; 3-4 cr.

60901 002 DIS, 11:15-12:05 M, Bruininks Hall 119, In Person Term Based; Meets With: 002 HSCI 1815; Michel Janssen ; 3-4 cr.

60902 003 DIS, 10:10-11:00 T, Bruininks Hall 117, In Person Term Based; Meets With: 003 HSCI 1815; Michel Janssen ; 3-4 cr.

60903 004 DIS, 11:15-12:05 W, Bruininks Hall 119, In Person Term Based; Meets With: 004 HSCI 1815; Michel Janssen ; 3-4 cr.

### 4121W History of 20th-Century Physics

(Student Option; WI)

61193 001 LEC, 16:40-19:20 Th, Tate Hall 110, In Person Term Based; Meets With: 001 PHYS 4121W; Michel Janssen ; 3 cr.

### 4455 Women, Gender, and Science

(Student Option; DSJ,HIS)

61470 001 LEC, 14:30-15:45 MW, Tate Hall B45, In Person Term Based; Anna Graber ; 3 cr.

### 5242 Navigating a Darwinian World

(Student Option; )

60810 001 LEC, 11:15-12:30 TTh, Rapson Hall 58, In Person Term Based; Meets With: 001 HSCI 3242; Mark Borrello ; 3 cr.

### 5421 Engineering Ethics

(Student Option; )

61533 001 LEC, 10:10-11:00 MWF, Mechanical Engineering 321, In Person Term Based; Meets With: 001 HSCI 3421; Jennifer Alexander ; 3 cr.

### 5611 Enlightenment, Revolution, and the Rise of Modern Science

(Student Option; )

60983 001 LEC, 11:15-12:30 MW, Mechanical Engineering 25, In Person Term Based; Meets With: 001 HSCI 3611; Victor Boantz ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent)

59477 001 IND, 00:00-00:00 , , In Person Term Based; Mark Borrello ; 1-15 cr.

### 5994 Directed Research

(Student Option; Prereq: instr consent)

59476 001 IND, 00:00-00:00 , , In Person Term Based; 1-15 cr.

## Hmong (HMNG)

### 1012 Beginning Hmong II

(Student Option No Audit; Prereq: HMNG 1001 or 1011)

54369 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 001 HMNG 4002; Kia Yang ; 5 cr.

55560 002 LEC, 15:35-17:55 MW, Folwell Hall 10, In Person Term Based; Meets With: 002 HMNG 4002; Kia Yang ; 5 cr.

### 1013 Medical Hmong

(Student Option No Audit; Prerequisites. While effective communication is essential in all fields of work, it is especially vital in the medical field. This online medical Hmong language course provides opportunities for students to learn and understand Hmong. Emphasis will be on key phrases, vocabulary, and cultural nuances related to the medical field. The course will provide a foundation for speaking, reading, writing, and listening comprehension for individuals interested in working with Hmong-speaking patients, clients, and others in the medical field. Students will have opportunities to learn and apply materials to real-world case scenarios and situations in the medical field.)

68262 001 LEC, 18:00-19:15 MW, Twin Cities Remote, Completely Online; Bee Vang ; 3 cr.

### 3016 Accelerated Intermediate Hmong

(Student Option No Audit; Prereq: [1011 and 1012] or 1015 or instr consent)

54773 001 LEC, 16:40-17:30 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 HMNG 4006; Bee Vang ; 5 cr.

### 3022 Intermediate Hmong II

(Student Option No Audit; Prereq: Hmng 3021)

54114 001 LEC, 15:35-17:55 TTh, Folwell Hall 10, In Person Term Based; Meets With: 001 HMNG 4004; Kia Yang ; 5 cr.

### 3290 Hmong Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 3022)

54314 001 FWK, In Person Term Based; Bee Vang ; 1 cr.

### 4002 Beginning Hmong II for Graduate

Student Research

(Student Option No Audit; Prereq: 4001)

54370 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 001 HMNG 1012; Kia Yang ; 5 cr.

55562 002 LEC, 15:35-17:55 MW, Folwell Hall 10, In Person Term Based; Meets With: 002 HMNG 1012; Kia Yang ; 5 cr.

### 4004 Intermediate Hmong II for Graduate

Student Research

(Student Option No Audit; Prereq: 4003)

54115 001 LEC, 15:35-17:55 TTh, Folwell Hall 10, In Person Term Based; Meets With: 001 HMNG 3022; Kia Yang ; 5 cr.

### 4006 Accelerated Intermediate Hmong for

Graduate Student Research

(Student Option No Audit; Prereq: [4001 and 4002] or 4005)

54580 001 LEC, 16:40-17:30 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 HMNG 3016; Bee Vang ; 5 cr.

## Honors Colloquia (HCOL)

### 3101H The Honors Thesis - Development

(A-F only; )

58330 001 DIS, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, 09:05-11:00 F, Bruininks Hall 420B, In Person Term Based; Brian Sostek, Milena Saqui-Salces ; 1 cr.

58354 002 DIS, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, 11:15-13:10 F, Bruininks Hall 420B, In Person Term Based; Brian Sostek, Milena Saqui-Salces ; 1 cr.

68045 003 DIS, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, 13:25-15:20 W, Nicholson Hall 145, In Person Term Based; Zoe Rodine, Michael Coughlin ; 1 cr.

68046 004 DIS, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, 11:15-13:10 F, Bruininks Hall 530B, In Person Term Based; Dasha Barr-Anderson, Michael Coughlin ; 1 cr.

69630 005 DIS, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, 13:25-15:20 Th, Akerman Hall 211, In Person Term Based; Shana Watters, Marek Oziewicz ; 1 cr.

### 3103V The Honors Thesis?Writing and Revision

(A-F only; WI)

68044 001 DIS, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, 10:10-12:05 F, Bruininks Hall 131B, In Person Term Based; Brian Sostek ; 1 cr.

## Honors Seminar (HSEM)

### 2042H Jewish Humor: Seriously Funny from Text to Stage to Screen

(A-F only; DSJ)

66542 001 DIS, 14:30-15:45 MW, Nicholson Hall 345, In Person Term Based; Natan Paradise ; 3 cr.

### 2069H Film as Art: Global Practices

(A-F only; )

58282 001 DIS, 16:00-17:15 MW, Bruininks Hall 123, In Person Term Based; Meng Tang ; 3 cr.

### 2325H Fantasy: A Ghastly, Wicked

Introduction

(A-F only; GP)

66544 001 DIS, 09:45-11:00 TTh, Peik Hall 375, In Person Term Based; Marek Oziewicz ; 3 cr.

### 2512H The Mathematics of Elections and Social Choice

(A-F only; MATH)

66539 001 DIS, 11:15-12:30 TTh, Nicholson Hall 345, In Person Term Based; Gregg Musiker ; 3 cr.

### 2540H Understanding the Russian Land

(A-F only; ENV,HIS)

66541 001 DIS, 11:15-12:30 MW, Nicholson Hall 345, In Person Term Based; Anna Graber ; 3 cr.

### 2637H Small but Impactful: Insects and the Environment

(A-F only; ENV)

58338 001 DIS, 10:15-11:30 TTh, Ruttan Hall B25, In Person Term Based; Sujaya Rao ; 3 cr.

### 2802H Cinematic Representations of

American Law

(A-F only; DSJ)

58333 001 DIS, 16:00-18:30 Th, Carlson School of Mgmt L-126, In Person Term Based; Chang Wang ; 3 cr.

### 3054H Minds, Brains, and Innovation

(A-F only; )

58334 001 DIS, 17:00-19:30 T, Bruininks Hall 512A, In Person Term Based; Wilma Koutstaal ; 3 cr.

**3087H History through Memoir**

(A-F only; )

66547 001 DIS, 14:30-17:00 T, Northrop Memorial Aud 240, In Person Term Based; Kirsten Fischer ; 3 cr.

**3511H Science Court: Strengthening****Democracy through Rational Discourse**  
(A-F only; CIV)

66548 001 DIS, 16:00-17:15 TTh, Mechanical Engineering 102, In Person Term Based; Ellad Tadmor ; 3 cr.

**3701H Exercise is Medicine**

(A-F only; )

58340 001 DIS, 13:25-14:15 MW, Mayo Bldg &amp; Additions 1250, In Person Term Based; Jim Langland ; 2 cr.

**3718H Women's Reproduction: History, Policy, and the Health Care System**

(A-F only; DSJ)

58336 001 DIS, 09:05-11:50 T, Mayo Bldg &amp; Additions 1250, In Person Term Based; Melissa Saftner, Maria Ruud ; 3 cr.

**Horticultural Science (HORT)****1001 Plant Propagation**

(Student Option; BIOL)

56741 001 LEC, 11:45-13:00 TTh, Borlaug Hall 335, In Person Term Based; Matthew Clark ; 4 cr.

66219 002 LAB, 09:35-11:30 T, Plant Growth Facility 140A, In Person Term Based; Laura Irish ; 4 cr.

66220 003 LAB, 13:15-15:10 T, Plant Growth Facility 140A, In Person Term Based; Laura Irish ; 4 cr.

66221 004 LAB, 09:35-11:30 Th, Plant Growth Facility 140A, In Person Term Based; Laura Irish ; 4 cr.

66222 005 LAB, 13:15-15:10 Th, Plant Growth Facility 140A, In Person Term Based; Laura Irish ; 4 cr.

**1003 Organic Gardening: From Balconies to Backyards**

(Student Option; )

66858 001 LEC, Completely Online; Emily Tepe ; 3 cr.

**1014 Edible Landscape**

(Student Option; TS)

57048 001 LEC, 17:10-18:30 W, Twin Cities Remote, Completely Online; Emily Tepe ; 3 cr.

**1031 Vines and Wines: Introduction to Viticulture and Enology**

(Student Option; Prerequisite: Enrollees must be 21 yrs of age by date of 1st class meeting Enrollment Restrictions: Open enrollment to undergraduate students ONLY; graduate students, masters students, and others will need instructor permission.)

66542 001 DIS, 15:10-18:00 M, Alderman Hall 405, In Person Term Based; Drew Horton ; 3 cr.

**1113 Floral Design**

(Student Option; )

57265 001 LEC, Completely Online; Neil Anderson ; 3 cr.

**3093 Directed Study**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57328 001 IND, 12:50-14:35 W, Plant Growth Facility 174, In Person Term Based; Julie Grossman ; 1-4 cr.

57436 003 IND, In Person Term Based; 1-4 cr.

**3094 Directed Research**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )

57427 001 IND, In Person Term Based; 1-4 cr.

**4096W Professional Experience Internship**

(A-F only; Prerequisite Canvas module on pre-and reflection during the summer internship experience. Upon successful completion of this prerequisite, students will receive a permission number to register for HORT 4096W in the fall. In 4096W, students will produce a final publication that is focused on writing for lay audiences. This writing project will start toward the end of the internship and end at the conclusion of the 7-week online fall course. prereq: CFANS undergradWI)

57479 002 FWK, In Person Term Based; Mary Rogers ; 1 cr.

**4141W Scheduling Crops for Protected Environments**

(A-F only; Prerequisites: HORT 1001/6011 Additional Preferred Courses: HORT 1015WI)

57198 001 LEC, 09:35-10:25 MW, Twin Cities Remote, Completely Online; Meets With: 001 HORT 6141; Neil Anderson ; 4 cr.

57199 002 LAB, 08:30-10:25 T, Plant Growth Facility 140A/B, In Person Term Based; Meets With: 002 HORT 6141; Neil Anderson ; 4 cr.

65640 003 LAB, 10:40-12:35 T, Plant Growth Facility 140A/B, In Person Term Based; Neil Anderson ; 4 cr.

**4461 Horticultural Marketing**

(A-F only; )

57240 001 LEC, 11:45-13:00 TTh, Twin Cities Remote, Completely Online; Meets With: 001 APEC 4461; Chengyan Yue ; 3 cr.

**5007 Advanced Plant Propagation**

(Student Option; Prereq: 1001 or BIOL 2022)

57246 001 LEC, 17:10-18:00 MW, Plant Growth Facility 132, In Person Term Based; Jerry Cohen ; 3 cr.

57247 002 LAB, 15:00-16:55 M, Plant Growth Facility 132, In Person Term Based; Jerry Cohen ; 3 cr.

**5023 Public Garden Management**

(Student Option; )

66629 001 LEC, 13:55-15:05 M, Alderman Hall 310, In Person Term Based; Stan Hokanson ; 2 cr.

**5033 Growing Fruit & Vegetables for Local and Organic Markets**

(A-F or Audit; Prereq: SOIL 2125 and [HORT 1001 or AGRO 1101 or BIOL 1009 or BIOL 1001 or another applicable biological science equivalent])

66607 001 LEC, 11:45-13:35 MW, Twin Cities Remote, Completely Online; Mary Rogers ; 4 cr.

**5093 Directed Study**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57428 001 IND, In Person Term Based; 1-4 cr.

**5094 Directed Research**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )

57429 001 IND, In Person Term Based; 1-4 cr.

**5480 Topics in Horticultural Science**

(Student Option; )

68009 001 LEC, 17:00-18:00 T, Twin Cities Remote, Completely Online; Thomas Michaels ; 1-4 cr.

**Housing Studies (HSG)****4193 Directed Study in Housing Studies**

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

50230 001 IND, Independent/Directed Study; Becky Yust ; 1-4 cr.

**4196 Internship in Housing Studies**

(S-N or Audit; Prereq: Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent)

50231 001 FWK, Independent/Directed Study; Becky Yust ; 1-4 cr.

**5193 Directed Study in Housing Studies**

(A-F or Audit; Prereq: Jr or sr or grad student)

50232 001 IND, Independent/Directed Study; Becky Yust ; 1-4 cr.

**Human Factors (HUMF)****5193 Directed Study in Human Factors and Ergonomics**

(A-F only; Prereq: instr consent)

50369 001 IND, Independent/Directed Study; Brad Holschuh ; 1-4 cr.

69540 002 IND, In Person Term Based; Cecilia Wang ; 1-4 cr.

**5874 Human Centered Design to Improve Complex Systems**

(A-F or Audit; )

50344 001 LEC, 16:40-20:30 M, Twin Cities Remote, Completely Online; 4 cr.

**Human Resources/Indus Rel (HRIR)****3021 Human Resource Management and Strategy**

(A-F only; Prereq: ECON 1101, ECON 1102, PSY 1001)

57796 002 LEC, 14:30-15:45 TTh, Hanson Hall 1-106, In Person Term Based; Amy Simon ; 3 cr.

57807 005 LEC, 14:30-15:45 MW, Hanson Hall 1-106, In Person Term Based; Xuan Liu ; 3 cr.

57974 001 LEC, 11:15-12:30 TTh, Hanson Hall 1-102, In Person Term Based; Amy Simon ; 3 cr.

57975 003 LEC, 16:00-17:15 TTh, Hanson Hall 1-106, In Person Term Based; Amy Simon ; 3 cr.

58015 004 LEC, 08:15-09:30 MW, Hanson Hall 1-108, In Person Term Based; Brian Dorr ; 3 cr.

**3031 Staffing and Selection: Strategic and Operational Concerns**

(Student Option; )

57753 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Robert Randall ; 2 cr.

**3032 Training and Development**

(Student Option; )

57754 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 1-149, In Person Term Based; Robert Randall ; 2 cr.

**3071 Union Organizing and Labor Relations**

(Student Option; )

57944 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Aaron Sojourner ; 2 cr.

**3072 Collective Bargaining and Dispute Resolution**

(Student Option; )

57945 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Amy Livingston ; 2 cr.

**3111 Human Resource Analytics**

(A-F only; Prerequisites: HRIR3021 or HRIR3021H or IBUS 3021 and SCO 2550 or equivalent statistics course)

66042 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Colleen Manchester ; 2 cr.

**4100W HRIR Capstone: Personal and Organizational Leadership**

(A-F only; Prereq: 3021, 6 HRIR credits, [senior status or dept consent]WI)

57891 001 LEC, 13:45-17:05 Th, Carlson School of Mgmt 2-233, In Person Term Based; Adib Birkland ; 4 cr.

**5222 Creating and Managing Diversity and Inclusion**

(Student Option; Prereq: HRIR MA student must register A-F, 3021, [CSOM or HRD junior or senior or dept consent])

58150 060 LEC, 17:45-21:05 Th, Carlson School of Mgmt 2-213, In Person Term Based; Abdifatah Ali ; 2 cr.

**5450 Change in the Workplace**

(A-F only; )

68256 090 LEC, 17:45-21:05 M, Twin Cities Remote, Completely Online; Jane Kuhn ; 2 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])

58194 060 LEC, 17:45-21:05 T, Carlson School of Mgmt 2-224, In Person Term Based; John Budd ; 2 cr.

**5992 Independent Study in Human Resources and Industrial Relations**

(Student Option; Prereq: dept consent or instr consent)

57805 001 IND, In Person Term Based; 1-8 cr.

**Industrial Engineering (IE)****3012 Optimization II**

(A-F only; Prereq: 3011, ISyE major)

61374 001 LEC, 10:10-12:05 TTh, Anderson Hall 310, In Person Term Based; Yiling Zhang ; 4 cr.

**3521 Statistics, Quality, and Reliability**

(Student Option; Prereq: MATH 1372 or equiv)  
59442 001 LEC, 09:05-11:00 TTh, Keller Hall 3-210, In Person Term Based; Kevin Leder ; 4 cr.  
60964 002 LEC, 13:25-15:20 TTh, Fraser Hall 102, In Person Term Based; Ying Cui ; 4 cr.  
61225 883 LEC, 09:05-11:00 TTh, Twin Cities Remote, Completely Online; Kevin Leder ; 4 cr.

### 3522 Quality Engineering and Reliability

(A-F only; Prereq: 3521, MATH 2142, MATH 2374, ISyE major)

60965 001 LEC, 13:25-15:20 MW, Anderson Hall 310, In Person Term Based; Lisa Miller ; 4 cr.

### 4011 Stochastic Models

(A-F only; Prereq: 3521, MATH 2373, MATH 2374, ISyE major)

61005 001 LEC, 09:05-11:00 MW, Rapson Hall 100, In Person Term Based; William Cooper ; 4 cr.

### 4041W Senior Design

(A-F only; Prereq: 1101, 2021, 3012, 3522, 3553, 4011, 4511, 4541W, 3521, 4551, ISyE seniorWI)

61006 001 LEC, 14:30-16:25 TTh, Bruininks Hall 330, In Person Term Based; Lisa Miller ; 4 cr.

### 4043W Industrial Assignment II

(A-F or Audit; Prereq: 3041WI)

59560 001 FWK, 00:00-00:00 , In Person Term Based; Frank Kelso ; 4 cr.

### 4044 Industrial Assignment III

(A-F only; Prereq: IE 4043, registration in ME co-op program)

61494 001 FWK, In Person Term Based; Frank Kelso ; 2 cr.

### 4094 Directed Research

(A-F only; )

61495 001 IND, In Person Term Based; 1-4 cr.

### 4096 Curricular Practical Training

(S-N only; )

61835 001 FWK, In Person Term Based; Lisa Miller ; 1 cr.

### 4551 Production and Inventory Control

(A-F only; Prereq: 3011, 3521, ISyE major)

60966 001 LEC, 13:25-15:20 TTh, Fraser Hall 101, In Person Term Based; Sherwin Doroudi ; 4 cr.

### 4894 Directed Senior Honors Thesis

(A-F only; )

61386 001 IND, In Person Term Based; 2 cr.

### 5080 Topics in Industrial Engineering

(Student Option; )

68571 001 LEC, 15:35-17:30 M, Tate Hall B65, In Person Term Based; Jean-Philippe Richard ; 1-4 cr.

68572 002 LEC, 11:15-13:10 W, Bruininks Hall 530A, In Person Term Based; Krishnamurthy Iyer ; 1-4 cr.

68994 003 LEC, 09:05-11:00 MW, Nicholson Hall 125, In Person Term Based; Nicholas Arnosti ; 1-4 cr.

### 5113 Systems Engineering II

(A-F or Audit; )

60520 001 LEC, 18:10-21:30 Th, Mechanical Engineering 212, In Person Term Based; Andrew Fried, Robert Monson ; 4 cr.

60704 883 LEC, 18:10-21:30 Th, Twin Cities Remote, Completely Online; Andrew Fried ; 4 cr.

### 5441 Financial Decision Making

(A-F only; Prereq: CSE upper div or grad student)

68356 001 LEC, 11:15-13:10 TTh, Peik Hall 28, In Person Term Based; Ankur Mani ; 4 cr.

### 5522 Quality Engineering and Reliability

(Student Option; Prereq: [4521 or equiv], [upper div or grad student or CNR])

59758 001 LEC, 13:25-15:20 MW, Mechanical Engineering 212, In Person Term Based; Darin England ; 4 cr.

60351 883 LEC, 13:25-15:20 MW, Twin Cities Remote, Completely Online; Darin England ; 4 cr.

### 5541 Project Management

(A-F only; Prereq: Upper div or grad student)

59757 001 LEC, 18:10-21:30 T, Bruininks Hall 330, In Person Term Based; Mimi Wong ; 4 cr.

61841 002 LEC, 17:30-20:50 M, Bruininks Hall 312, In Person Term Based; Mimi Wong ; 4 cr.

### 5545 Decision Analysis

(Student Option; Prereq: 3521 or equiv)

59822 001 LEC, 09:05-11:00 TTh, Mechanical Engineering 221, In Person Term Based; Darin England ; 4 cr.

### 5551 Production Planning and Inventory Control

(Student Option; Prereq: CNR or upper div or grad student)

60737 001 LEC, 13:25-15:20 TTh, Keller Hall 3-115, In Person Term Based; Saif Benjaafar ; 4 cr.

61497 883 LEC, 13:25-15:20 TTh, Twin Cities Remote, Completely Online; Saif Benjaafar ; 4 cr.

### 5561 Analytics and Data-Driven Decision Making

(Student Option; Prerequisites: IE 3521 or equivalent; IE 3011 or IE 5531 or equivalent; proficiency with a programming language such as R, Python, or C. )

61375 001 LEC, 11:15-13:10 TTh, Rapson Hall 43, In Person Term Based; Zhaosong Lu ; 4 cr.

## Information Networking (INET)

### 1001 Survey of Information Technology

(A-F or Audit; )

64676 301 LEC, Completely Online; Scott Lee-Eichenwald ; 1 cr.

### 3011W Social Impact of Information Technology

(A-F or Audit; Prereq: None WI)

65165 001 LEC, Completely Online; Scott Lee-Eichenwald ; 3 cr.

### 3101 C Programming: Language and Applications

(A-F or Audit; Prereq: Programming experience or completed coursework in [Java or C+ or similar programming language])

64619 001 LEC, 18:00-21:35 W, Bruininks Hall 512A, In Person Term Based; Mark Langanki ; 2 cr.

### 4002 Foundations of Networking

(A-F or Audit; Prerequisites, but basic knowledge of computer architecture and operating systems is recommended. Note that credit will be granted for either INet 4002 or CSci 4211, but not both.)

64643 301 LEC, Completely Online; John Raabe ; 3 cr.

### 4021 Dev Ops I: Network Programming

(A-F or Audit; Prereq: major admission requirements completed. )

64439 001 LEC, 18:00-22:00 T, Bruininks Hall 530B, In Person Term Based; Mark Langanki ; 4 cr.

### 4031 Introduction to Systems

(A-F or Audit; Prereq: Secure knowledge of operating systems, such as provided by INet 4001 or CSci 4061.)

64440 001 LEC, 18:00-21:35 Th, Appleby Hall 11, In Person Term Based; Joseph Axberg ; 4 cr.

### 4041 Networking II: Emerging Technologies

(A-F or Audit; Prereq: CSci 4211 or equivalent, or professional experience, to comprise a basic understanding and knowledge of operating systems, computer architecture, and probability theory. Senior status preferred.)

64677 001 LEC, 18:00-21:35 M, Appleby Hall 219, In Person Term Based; Joseph Axberg ; 4 cr.

### 4051 IT Infrastructure Operations:

#### Capstone

(A-F or Audit; Prereq: INet 4002 or CSci 4211 or instructor consent, Senior.)

64667 301 LEC, Completely Online; Scott Lee-Eichenwald ; 3 cr.

### 4061 Data Science I: Fundamentals

(A-F or Audit; Prereq: Basic statistics and programming skills, laptop)

64549 301 LEC, Completely Online; Tyler Deutsch ; 4 cr.

### 4082W IT Infrastructure Projects and Processes

(A-F or Audit; Prereq: 45 cr recommendedWI)

64644 101 LEC, 18:00-20:45 W, Appleby Hall 303, Partially Online; Banipal Ayvaz ; 3 cr.

### 4083W Systems II: Analysis and Design

(A-F or Audit; Prereq: INet 4082W (or equivalent project management experience) is recommended.WI)

64497 101 LEC, 18:00-20:45 T, Akerman Hall 215, Partially Online; Deborah DeWanz ; 3 cr.

### 4153 Introduction to Security: Policy and Regulation

(A-F or Audit; Prereq: experience with Windows/ Internet; 45 semester credits)

64620 001 LEC, 18:00-21:35 Th, Bruininks Hall 530B, In Person Term Based; John Raabe ; 4 cr.

### 4165 Security I: Principles

(A-F or Audit; Prereq: CSCI 4061 or equiv experience with operating systems )

64494 001 LEC, 18:00-20:45 T, Akerman Hall 211, In Person Term Based; Nathan Tymeson ; 3 cr.

### 4193 Directed Study

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

64689 401 IND, Independent/Directed Study; 1-4 cr.

### 4596 Internship

(A-F only; Prereq: [ITI major or certificate student], [jr or sr], dept consent)

64495 401 FWK, Independent/Directed Study; John Raabe ; 1 cr.

64546 402 FWK, Independent/Directed Study; 1 cr.

### 4707 Introduction to Databases

(A-F or Audit; Prereq: INet 4001 or CSci 4061, at least 45 cr completed; CSci majors contact CSci Dept before registering.)

64617 001 LEC, 18:00-21:35 M, Appleby Hall 303, In Person Term Based; Rich Howey ; 4 cr.

69583 401 LEC, Independent/Directed Study; Rich Howey ; 4 cr.

### 4710 Data Science II: Big Data Analytics

(A-F or Audit; Prerequisites: Basic programming knowledge (Java, Python, R). Linear algebra strongly recommended, especially matrix operations (e.g., MATH 2243, Linear Algebra and Differential Equations)

64604 001 LEC, 18:00-21:35 M, Mechanical Engineering 102, In Person Term Based; Kyle Stahl ; 4 cr.

### 4711 Data Management II: Distributed Systems

(A-F or Audit; Prereq: INET 4031 and 4707 or consent of instructor.)

64618 001 LEC, 18:00-21:35 W, Appleby Hall 3, In Person Term Based; Norman Owens ; 4 cr.

## Information and Decision Sci (IDSC)

### 3001 Introduction to Information Technology in Business

(A-F or Audit; )

57954 001 LEC, 11:15-12:30 TTh, Hanson Hall 1-104, In Person Term Based; Mani Subramani ; 3 cr.

57955 002 LEC, 13:00-14:15 MW, Hanson Hall 1-108, In Person Term Based; Timothy Olson ; 3 cr.

57956 003 LEC, 16:00-17:15 MW, Hanson Hall 1-102, In Person Term Based; Timothy Olson ; 3 cr.

57957 020 LEC, 17:45-20:15 T, Hanson Hall 1-104, In Person Term Based; Erich Selvig ; 3 cr.

58102 004 LEC, 08:15-09:30 TTh, Hanson Hall 1-108, In Person Term Based; Kevin Kuhn ; 3 cr.

### 3101 Introduction to Programming

(A-F or Audit; )

57874 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Agnes Yang ; 2 cr.

57958 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-117, In Person Term Based; Ramin Zandvakili ; 2 cr.

### 3102 Intermediate Programming

(A-F or Audit; )

57875 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

57959 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

### 3103 Data Modeling and Databases

(A-F only; )

57876 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

57960 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

58147 003 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

### 3104 Enterprise Systems

(A-F or Audit; Prereq: 3001)

57877 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
1-149, In Person Term Based; Ken Reilly ; 2 cr.  
58044 002 LEC, 15:45-17:25 TTh, Carlson School of Mgmt  
1-149, In Person Term Based; Ken Reilly ; 2 cr.

### 3202 Analysis and Modeling of Business Systems

(A-F or Audit; Prereq: 3001)  
57832 001 LEC, 08:00-09:40 MW, Hanson Hall 1-105, In  
Person Term Based; Ryan Sougstad ; 4 cr.  
57961 002 LEC, 09:55-11:35 MW, Hanson Hall 1-105, In  
Person Term Based; Ryan Sougstad ; 4 cr.

### 4110 Data Engineering for Business Analytics

(A-F only; )  
58148 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt  
2-224, In Person Term Based; Ken Reilly ; 2 cr.  
58199 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt  
2-224, In Person Term Based; Ken Reilly ; 2 cr.  
66047 003 LEC, 09:55-11:35 TTh, Carlson School of Mgmt  
L-117, In Person Term Based; Kartik Ganju ; 2 cr.

### 4161 Python for Business Applications

(A-F only; )  
58270 001 LEC, 09:55-11:35 TTh, Hanson Hall 1-109, In  
Person Term Based; Ken Reilly ; 2 cr.

### 4204W Strategic Information Technology Management

(A-F or Audit; WI)  
57913 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt  
L-118, In Person Term Based; Ryan Sougstad ; 4 cr.  
58185 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt  
L-118, In Person Term Based; Ryan Sougstad ; 4 cr.

### 4210 Interactive Data Visualization for Business Analytics

(A-F only; )  
58200 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt  
1-149, In Person Term Based; Jeff Clement ; 2 cr.

### 4301 MIS in Action: A Capstone Course

(A-F only; )  
57873 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt  
2-224, In Person Term Based; Timothy Olson ; 2 cr.  
57988 002 LEC, 08:00-09:40 MW, Carlson School of Mgmt  
2-224, In Person Term Based; Michael McFarlane ; 2 cr.  
58113 003 LEC, 09:55-11:35 TTh, Carlson School of Mgmt  
L-126, In Person Term Based; Kevin Kuhn ; 2 cr.

### 4310 Prescriptive Analytics

(A-F only; Prereq: IDSc 4110 & 4210 recommended.)  
58103 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
1-143, In Person Term Based; Vedran Lelas ; 2 cr.

### 4401 Information Security

(A-F only; Prereq: 3001)  
58114 020 LEC, 17:45-21:05 W, Carlson School of Mgmt  
2-233, In Person Term Based; Matt Schmidt ; 2 cr.

### 4444 Descriptive and Predictive Analytics

(A-F only; Prereqs: IDSC 3001; non-MIS majors also  
need IDSC 4110)  
57962 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt  
1-142, In Person Term Based; Veronica Marotta ; 2 cr.  
58115 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt  
1-142, In Person Term Based; Veronica Marotta ; 2 cr.  
66048 003 LEC, 13:45-15:25 MW, Carlson School of Mgmt  
1-143, In Person Term Based; Yi Zhu ; 2 cr.

### 4471 Agile Methods

(A-F only; )  
58202 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt  
1-142, In Person Term Based; Sean Dulin ; 2 cr.

### 4491 Independent Study in Information Systems

(A-F only; Prereq: instr consent)  
58001 001 IND, Independent/Directed Study; Ken Reilly,  
Corrinne (Corrie) Fiedler ; 1-4 cr.

### 4493 Directed Study

(Student Option; Prereq: Instructor consent)  
58275 001 IND, Independent/Directed Study; 1-4 cr.

### 4590 Business Analytics Special Topics

(A-F only; )  
66538 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt  
2-207, In Person Term Based; Ellen Trader, Ken Reilly ; 2  
cr.

## Insurance and Risk Management (INS)

### 4100 Corporate Risk Management

(Student Option; )  
57757 020 LEC, 17:45-21:05 W, Hanson Hall 1-109, In  
Person Term Based; Meets With: 090 INS 6100; Andrew  
Whitman ; 2 cr.

### 4101 Employee Benefits

(Student Option; )  
58016 001 LEC, 13:45-15:25 TTh, Hanson Hall 1-103, In  
Person Term Based; Meets With: 001 INS 6101; Andrew  
Whitman ; 2 cr.

### 4200 Insurance Theory and Practice

(Student Option; )  
58241 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt  
2-224, In Person Term Based; Meets With: 001 INS 6200;  
Andrew Whitman ; 2 cr.

## Inter-College Program (ICP)

### 3101W Proposal Development

(A-F only; Prereq: Admission to the Inter-College  
Program or Health and Wellbeing Sciences majorWI)  
64694 301 LEC, Completely Online; Ganeane Sawyer ; 2 cr.  
67819 302 LEC, Completely Online; Ganeane Sawyer ; 2 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)  
50237 001 LAB, 08:30-11:30 MW, McNeal Hall 470, In  
Person Term Based; 4 cr.  
50335 002 LAB, 15:00-18:00 TTh, McNeal Hall 470, In  
Person Term Based; 4 cr.  
50364 003 LAB, 18:00-21:00 MW, McNeal Hall 470, In  
Person Term Based; 4 cr.

### 2196 Work Experience in Interior Design

(S-N only; Prereq: Plan submitted/approved by  
[adviser, internship supervisor], written approval of  
supervisor, instr consent)  
50238 001 FWK, Independent/Directed Study; Abimbola  
Asojo ; 1-4 cr.  
50239 002 FWK, Independent/Directed Study; Tasoulla  
Hadijyanni ; 1-4 cr.  
50240 004 FWK, Independent/Directed Study; Stephanie  
Zollinger ; 1-4 cr.  
50420 003 FWK, Independent/Directed Study; Meghan  
Hendrickson ; 1-4 cr.

### 2604 Interior Design Studio IV

(A-F or Audit; Prereq: [2603 or DHA 2603], 2613)  
50346 002 LAB, 12:50-15:50 MW, Nolte Center 140, In  
Person Term Based; 4 cr.  
50431 001 LAB, 12:50-15:50 MW, Rapson Hall 1, In Person  
Term Based; 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)  
50308 001 LEC, 12:50-14:45 TTh, McNeal Hall 310, In  
Person Term Based; 4 cr.

### 2622 Computer Applications I

(A-F only; Prereq: Interior design major)  
50309 001 LAB, 16:00-18:00 TTh, McNeal Hall 305, In  
Person Term Based; 2 cr.

### 3162 History of Interiors and Furnishings: 1750 to Present

(A-F or Audit; HIS)  
50284 001 LEC, 12:50-14:45 MW, Twin Cities Remote,  
Completely Online; 4 cr.

### 3605 Interior Design Studio V

(A-F only; )  
50304 001 LAB, 09:35-12:35 TTh, Rapson Hall 1, In Person  
Term Based; 4 cr.  
65892 002 LAB, 09:35-12:35 MW, Nolte Center 140, In  
Person Term Based; 4 cr.

### 4193 Directed Study in Interior Design

(A-F or Audit; Prereq: Undergrad, instr consent)  
50244 001 IND, Independent/Directed Study; Abimbola  
Asojo ; 1-4 cr.  
50245 002 IND, Independent/Directed Study; Tasoulla  
Hadijyanni ; 1-4 cr.  
50246 004 IND, Independent/Directed Study; Stephanie  
Zollinger ; 1-4 cr.

### 4196 Internship in Interior Design

(S-N only; Prereq: 4607, instr consent)  
50247 001 FWK, Independent/Directed Study; Abimbola  
Asojo ; 1 cr.  
50248 002 FWK, Independent/Directed Study; Tasoulla  
Hadijyanni ; 1 cr.  
50249 004 FWK, Independent/Directed Study; Stephanie  
Zollinger ; 1 cr.  
50477 005 FWK, Independent/Directed Study; Meghan  
Hendrickson ; 1 cr.

### 4608 Interior Design Thesis

(A-F only; Prereq: [4615W or DHA 4615W], [4607 or  
DHA 4607] with grade of at least C-)  
50250 001 LAB, 09:35-12:35 TTh, McNeal Hall 480, In  
Person Term Based; 4 cr.  
50433 002 LAB, 09:35-12:35 TTh, McNeal Hall 475, In  
Person Term Based; 4 cr.

### 4617 Lighting Design Innovations and Technological Advances

(A-F only; )  
50458 001 LEC, 14:30-17:15 TTh, Twin Cities Remote,  
Completely Online; Meets With: 001 IDES 5617; 3 cr.

### 5193 Directed Study in Interior Design

(A-F or Audit; Prereq: Jr or sr or grad student)  
50251 001 IND, Independent/Directed Study; Abimbola  
Asojo ; 1-4 cr.  
50252 002 IND, Independent/Directed Study; Tasoulla  
Hadijyanni ; 1-4 cr.  
50253 004 IND, Independent/Directed Study; Stephanie  
Zollinger ; 1-4 cr.

### 5617 Lighting Design Innovations and Technological Advances

(A-F only; )  
50459 001 LEC, 14:30-17:15 TTh, Twin Cities Remote,  
Completely Online; Meets With: 001 IDES 4617; 3 cr.

## International Business (IBUS)

### 3010 Introduction to Global Entrepreneurship

(A-F only; )  
58096 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
1-136, In Person Term Based; Michael Nolan ; 4 cr.

### 3021 Human Resource Management & Strategy in a Global Context

(A-F only; Prereq: Econ 1101, Econ1102, Psy 1001)  
57895 001 LEC, 09:00-11:30 F, Carlson School of Mgmt  
1-136, In Person Term Based; Connie Wanberg ; 4 cr.

### 3033W Business Communication in a Global Context

(A-F only; Prereq: Fr composition, CSOM upper-div, at  
least 60 crWI)  
57949 001 LEC, 11:15-12:30 TTh, Carlson School of Mgmt  
1-136, In Person Term Based; Nat Bennett ; 4 cr.

### 3055 Innovating with Technology: Global IT Entrepreneurship in Action

(A-F only; )  
58178 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt  
2-233, In Person Term Based; Soumya Sen ; 4 cr.

### 3092 Understanding International Business

(A-F only; )  
68274 001 DIS, 11:50-13:30 TTh, Carlson School of Mgmt  
L-126, In Person Term Based; Michael Nolan ; 2 cr.  
68275 002 DIS, 08:00-09:40 TTh, Carlson School of Mgmt  
L-126, In Person Term Based; Michael Nolan ; 2 cr.  
69566 003 DIS, 11:50-13:30 TTh, Carlson School of Mgmt  
L-118, In Person Term Based; Michael Nolan ; 2 cr.

### 4125 Global Banking: A Survey of Regulatory and Competitive Developments Post Financial Crisis

(A-F only; Prereq: FINA 4121 )  
67744 001 LEC, 09:00-10:40 MW, Carlson School of Mgmt  
L-122, In Person Term Based; Susanna Gibbons ; 4 cr.

**5400 Global Business Practicum**

(A-F only; Prereq: approved application)

58021 001 LEC, 09:00-13:00 Sa, Twin Cities Remote, 09:00-13:00 Sa, Twin Cities Remote, 09:00-12:00 Sa, Twin Cities Remote, 09:00-12:00 Sa, Twin Cities Remote, Completely Online; Wendy Lutter ; 4 cr.

**Italian (ITAL)****1001 Beginning Italian I**

(Student Option; )

53571 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 4, Partially Online; Meets With: 001 ITAL 4001; Carlotta Dradi ; 5 cr.  
53572 002 DIS, 11:15-12:05 MTWTh, Folwell Hall 121, Partially Online; Carlotta Dradi ; 5 cr.**1002 Beginning Italian II**

(Student Option; Prereq: 1001 or instr consent)

52985 001 DIS, 13:25-14:15 MTWTh, Smith Hall 111, Partially Online; Monica Barbieri ; 5 cr.  
52986 002 DIS, 14:30-16:25 TTh, Folwell Hall 5, Partially Online; Cristina Cocchi ; 5 cr.  
53110 003 DIS, 12:20-13:10 MTWTh, Room TBA, Partially Online; Monica Barbieri ; 5 cr.**1003 Intermediate Italian I**

(Student Option; )

53619 001 DIS, 11:15-12:05 MTWTh, Peik Hall 155, Partially Online; Monica Barbieri ; 5 cr.

**1004 Intermediate Italian II**

(Student Option; Prereq: ITAL 1003)

52991 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 31, Partially Online; Meets With: 001 ITAL 4004; Kathleen Rider ; 5 cr.  
52992 002 DIS, 12:20-13:10 MTWTh, Folwell Hall 31, Partially Online; Meets With: 002 ITAL 4004; Kathleen Rider ; 5 cr.**1837 Imagining Italy: Italian and Italian-American Culture, History, and Society through Film**

(Student Option; AH,GP)

56169 001 LEC, 16:00-18:00 MW, Twin Cities Remote, Completely Online; Meets With: 001 ITAL 3837; Susanna Ferlito ; 4 cr.

**3201 Reading Italian Texts: Poetics, Rhetoric, Theory**

(Student Option; Prereq: 3015)

55817 001 DIS, 14:30-15:45 MW, Twin Cities Remote, Completely Online; Susanna Ferlito ; 3 cr.

**3459W Senior Project**

(Student Option; Prereq: completion of pre-requisite for major (3015) and eight electives for the sum of 30 creditsWI)

54157 001 IND, 00:00-00:00 , , Independent/Directed Study; Lorenzo Fabbri ; 2 cr.  
56579 002 IND, In Person Term Based; Susanna Ferlito ; 2 cr.**3837 Imagining Italy: Italian and Italian-American Culture, History, and Society through Film**

(Student Option; AH,GP)

56170 001 LEC, 16:00-18:00 MW, Twin Cities Remote, Completely Online; Meets With: 001 ITAL 1837; Susanna Ferlito ; 4 cr.

**4001 Beginning Italian for Graduate Research I**

(Student Option; Prereq: instr consent)

56666 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 4, Partially Online; Meets With: 001 ITAL 1001; Carlotta Dradi ; 5 cr.

**4004 Intermediate Italian for Graduate Research II**

(Student Option; )

56487 002 DIS, 12:20-13:10 MTWTh, Folwell Hall 31, Partially Online; Meets With: 002 ITAL 1004; Kathleen Rider ; 5 cr.  
56488 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 31, Partially Online; Meets With: 001 ITAL 1004; Kathleen Rider ; 5 cr.**4993 Directed Study**

(Student Option; Prereq: instr consent)

52858 001 IND, In Person Term Based; 1-4 cr.

**5970 Directed Readings**

(Student Option; Prereq: instr consent)

52859 001 IND, In Person Term Based; 1-4 cr.

**Japanese (JPN)****1012 Beginning Japanese II**

(Student Option No Audit; Prereq: 1011)

54753 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 JPN 4002; Nicolas Audet ; 5 cr.  
54754 002 LEC, 09:05-11:25 MW, Appleby Hall 128, In Person Term Based; Meets With: 002 JPN 4002; Hae Ree Jun ; 5 cr.  
54756 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 003 JPN 4002; Marnie Jorenby ; 5 cr.  
54757 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 004 JPN 4002; Fumiko Matsumoto ; 5 cr.  
54758 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 005 JPN 4002; Keiko Kawakami ; 5 cr.  
54759 006 LEC, 13:25-15:45 TTh, Ford Hall 150, In Person Term Based; Meets With: 006 JPN 4002; Hae Ree Jun ; 5 cr.  
54760 050 LEC, 16:40-19:00 TTh, Twin Cities Remote, Completely Online; Meets With: 050 JPN 4002; Fumiko Matsumoto ; 5 cr.  
55478 007 LEC, 14:30-15:20 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 007 JPN 4002; Fumiko Matsumoto ; 5 cr.**3022 Intermediate Japanese II**

(Student Option No Audit; Prereq: 3021 or instr consent)

53050 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 002 JPN 4004; Ayumi Mita ; 5 cr.  
53419 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 JPN 4004; Ayumi Mita ; 5 cr.  
54192 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 106, In Person Term Based; Meets With: 003 JPN 4004; Kenichi Tazawa ; 5 cr.  
54371 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 004 JPN 4004; Kenichi Tazawa ; 5 cr.  
54661 050 LEC, 16:40-19:00 TTh, Folwell Hall 6, In Person Term Based; Meets With: 050 JPN 4004; Kenichi Tazawa ; 5 cr.**3032 Third Year Japanese II**

(Student Option No Audit; Prereq: 3031 or instr consent)

54902 001 LEC, 14:30-15:20 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 001 JPN 4006; Keiko Kawakami ; 4 cr.  
54903 050 LEC, 16:40-18:35 MW, Folwell Hall 105, In Person Term Based; Meets With: 050 JPN 4006; Keiko Kawakami ; 4 cr.**3290 Japanese Language Teaching Tutorial (S-N only; Prereq: Grade of A in 4042)**

54305 001 FWK, In Person Term Based; Hae Ree Jun ; 1 cr.

**4002 Beginning Japanese II for Graduate Student Research**

(Student Option No Audit; Prereq: 4001)

54761 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 JPN 1012; Nicolas Audet ; 5 cr.  
54762 002 LEC, 09:05-11:25 MW, Appleby Hall 128, In Person Term Based; Meets With: 002 JPN 1012; Hae Ree Jun ; 5 cr.  
54764 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 112, In Person Term Based; Meets With: 003 JPN 1012; Marnie Jorenby ; 5 cr.  
54765 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 004 JPN 1012; Fumiko Matsumoto ; 5 cr.  
54766 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 005 JPN 1012; Keiko Kawakami ; 5 cr.  
54767 006 LEC, 13:25-15:45 TTh, Ford Hall 150, In Person Term Based; Meets With: 006 JPN 1012; Hae Ree Jun ; 5 cr.  
54768 050 LEC, 16:40-19:00 TTh, Twin Cities Remote, Completely Online; Meets With: 050 JPN 1012; Fumiko Matsumoto ; 5 cr.  
55479 007 LEC, 14:30-15:20 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 007 JPN 1012; Fumiko Matsumoto ; 5 cr.**4004 Intermediate Japanese II for Graduate Student Research**

(Student Option No Audit; Prereq: 4003)

53614 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 JPN 3022; Ayumi Mita ; 5 cr.  
53615 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 002 JPN 3022; Ayumi Mita ; 5 cr.  
54250 003 LEC, 12:20-13:10 MTWThF, Folwell Hall 106, In Person Term Based; Meets With: 003 JPN 3022; Kenichi Tazawa ; 5 cr.  
54372 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 004 JPN 3022; Kenichi Tazawa ; 5 cr.  
54662 050 LEC, 16:40-19:00 TTh, Folwell Hall 6, In Person Term Based; Meets With: 050 JPN 3022; Kenichi Tazawa ; 5 cr.**4006 Third Year Japanese II for Graduate Student Research**

(Student Option No Audit; Prereq: 4005)

54879 001 LEC, 14:30-15:20 MTWTh, Folwell Hall 103, In Person Term Based; Meets With: 001 JPN 3032; Keiko Kawakami ; 4 cr.  
54880 050 LEC, 16:40-18:35 MW, Folwell Hall 105, In Person Term Based; Meets With: 050 JPN 3032; Keiko Kawakami ; 4 cr.**4042 Advanced Japanese Conversation and Composition II**

(Student Option; Prereq: 4041 or instr consent)

54142 001 LEC, 12:20-14:15 MW, Folwell Hall 107, In Person Term Based; Ayumi Mita ; 4 cr.

**5040 Readings in Japanese Texts**

(A-F or Audit; Prereq: 4042 or equiv or instr consent)

68703 001 LEC, 14:30-15:45 TTh, Peik Hall 165, In Person Term Based; Marnie Jorenby ; 3 cr.

**Jewish Studies (JWST)****3205 Women, Gender, and the Hebrew Bible**

(Student Option; AH)

55495 001 LEC, 13:00-14:15 MW, Nicholson Hall 125, In Person Term Based; Meets With: 001 RELS 3205001 CNRC 3205; Tina Sherman ; 3 cr.

**3206 Sex, Murder, and Bodily Discharges: Purity and Pollution in the Ancient World (Student Option; )**

55636 001 DIS, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 CNRC 3206001 RELS 3206001 MEST 3206001 ANTH 3206; Patricia Ahearn-Kroll ; 3 cr.

**3506 The Israeli Mossad in Film and Literature: History, Narrative, and Ethics (Student Option; GP)**

69392 001 LEC, 14:30-15:45 MW, Kolthoff Hall 137, In Person Term Based; Meets With: 001 CNRC 3506; Renana Schneller ; 3 cr.

**3511 Muslims and Jews: Conflict and Co-existence in the Middle East and North Africa since 1700**

(Student Option; GP,HIS)

68410 001 LEC, 16:00-17:15 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 RELS 3079001 HIST 3511; Noam Sienna ; 3 cr.

**3837 Orienting Hebrew Literature**

(A-F only; GP,LITR)

69519 001 LEC, 14:30-15:45 MW, Folwell Hall 12, In Person Term Based; Meets With: 001 AMES 3837; Shir Alon ; 3 cr.

**3896 Jewish Studies Internship for Academic Credit**

(Student Option; )

56273 001 IND, In Person Term Based; Natan Paradise ; 1-4 cr.

**3993 Directed Study**

(A-F only; Prereq: instr consent)

55334 001 IND, In Person Term Based; 1-4 cr.

**4000W Final Project, Writing Intensive**

(A-F or Audit; Prereq: JwSt major, permission of dir of undergrad studiesWI)

53700 001 IND, In Person Term Based; Natan Paradise ; 4 cr.  
54310 002 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 studiesWI)

53046 001 IND, In Person Term Based; 1 cr.

### 5992 Directed Readings

(Student Option; Prereq: instr consent)

53902 001 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.

## Journalism & Mass Communicat (JOUR)

### 1001 Media in a Changing World

(Student Option; SOCS,TS)

52487 001 LEC, 09:45-11:00 TTh, 10 Church Street SE 100, In Person Term Based; Scott Libin ; 3 cr.

52488 003 LEC, Completely Online; Scott Memmel ; 3 cr.

53307 002 LEC, 13:00-14:15 TTh, Nicholson Hall 155, In Person Term Based; Sid Bedingfield ; 3 cr.

### 1501 Digital Games and Society

(Student Option; AH,TS)

55917 001 LEC, Completely Online; Andrew Locke ; 3 cr.

### 3004 Information for Mass Communication

(A-F only; Prereq: Jour major, Strat Comm major, Mass Comm major or Mass Comm minor or approved BIS/IDIM/ICP program)

52489 001 LEC, 09:05-09:55 MW, Murphy Hall 130, Partially Online; Meets With: 001 JOUR 3004H; Susan LoRusso ; 3 cr.

55370 002 LEC, 10:10-11:00 MW, Murphy Hall 130, Partially Online; Yan Qu ; 3 cr.

### 3004H Information for Mass Communication

(Student Option; AH,TS)

(A-F only; Prereq: Honors [Jour major, Strat Comm major, Mass Comm major or Mass Comm minor or approved BIS/IDIM/ICP program])

53729 001 LEC, 09:05-09:55 MW, Murphy Hall 130, Partially Online; Meets With: 001 JOUR 3004; Susan LoRusso ; 3 cr.

### 3005 Mass Media Effects

(Student Option; SOCS)

54527 001 LEC, 09:45-11:00 TTh, Rapson Hall 45, In Person Term Based; Claire Segijn ; 3 cr.

### 3006 Visual Communication

(Student Option; )

53544 001 LEC, 11:15-12:30 TTh, Murphy Hall 130, In Person Term Based; Diane Cormany ; 3 cr.

### 3007 The Media in American History and Law: Case Studies

(Student Option; HIS)

6294 001 LEC, 14:30-15:45 MW, Murphy Hall 130, In Person Term Based; Scott Memmel ; 3 cr.

### 3101W News Reporting and Writing

(A-F only; Prereq: [Jour 3004 or 3004H or concurrent registration], [Jour major, Mass Comm major or approved BIS/IDIM/ICP program]WI)

54585 002 LAB, 08:00-09:55 TTh, Johnston Hall B16, In Person Term Based; Greta Kaul ; 3 cr.

54780 001 LAB, 16:00-17:55 MW, Johnston Hall B16, In Person Term Based; Jessica Lee ; 3 cr.

55396 003 LAB, 13:00-14:55 TTh, Johnston Hall B16, In Person Term Based; Craig Flournoy ; 3 cr.

### 3102 Multimedia Production and Storytelling

(A-F only; Prereq: [Jour 3004 or 3004H or concurrent registration], [Jour 3101 or concurrent registration or Jour 3279 or concurrent registration or Jour 3241 or concurrent registration], [Jour major, Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54313 001 LAB, 08:00-09:55 TTh, Murphy Hall 10 South, In Person Term Based; Rusty Ray ; 3 cr.

54586 002 LAB, 12:20-14:15 TTh, Murphy Hall 10 South, In Person Term Based; Regina McCombs ; 3 cr.

6295 003 LAB, 15:35-17:30 TTh, Murphy Hall 10 South, In Person Term Based; Regina McCombs ; 3 cr.

### 3121 Intermediate News Reporting

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

53873 001 LEC, 08:15-09:30 MW, Murphy Hall 228, In Person Term Based; Andrew Mannix ; 3 cr.

67883 002 LEC, 08:15-09:30 TTh, Murphy Hall 228, In Person Term Based; Frederick Melo ; 3 cr.

### 3155 Editing for Print and Digital Audiences

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

52490 001 LAB, 17:30-19:25 TTh, Murphy Hall 10 North, In Person Term Based; Micah Emmel-Duke ; 3 cr.

### 3173W Magazine & Feature Writing

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, [Jour major, Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program]WI)

54778 001 LEC, 14:30-15:45 MW, Murphy Hall 25, In Person Term Based; Gayle Golden ; 3 cr.

### 3201 Principles of Strategic Communication

(A-F or Audit; Prereq: [Jour 3004 or 3004H or concurrent registration], [Jour major, Strat Comm major, Mass Comm major or Mass Comm minor or approved BIS/IDIM/ICP program])

52491 001 LEC, Completely Online; Sherri Katz ; 3 cr.

53360 002 LEC, 11:15-12:30 MW, Murphy Hall 130, In Person Term Based; Yan Qu ; 3 cr.

### 3241W Advertising Strategy and Creative Development

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program]WI)

53462 001 LEC, 08:15-09:30 MW, Murphy Hall 25, In Person Term Based; Erik Kv?lseth ; 3 cr.

54587 002 LEC, 11:15-12:30 MW, Murphy Hall 25, In Person Term Based; Jennifer Johnson ; 3 cr.

54872 003 LEC, 13:00-14:15 MW, Murphy Hall 228, In Person Term Based; Jennifer Johnson ; 3 cr.

55142 004 LEC, 13:00-14:15 TTh, Murphy Hall 25, In Person Term Based; Mark Jensen ; 3 cr.

### 3251 Strategic Communication Research and Analytics

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

53098 001 LEC, 14:30-15:45 T, Bruininks Hall 530A, Partially Online; Marco Yzer ; 3 cr.

### 3253 Account Planning

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54588 001 LEC, 09:45-11:00 TTh, Murphy Hall 214, In Person Term Based; Mark Jensen ; 3 cr.

### 3261 Media Planning

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

52494 001 LEC, 16:00-17:15 TTh, Murphy Hall 214, In Person Term Based; Luis Garrido ; 3 cr.

67884 002 LEC, 16:00-17:15 MW, Amundson Hall 240, In Person Term Based; Douglas Stokes ; 3 cr.

### 3275 Digital Strategy in Strategic Communication

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54777 001 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Kathleen Berry ; 3 cr.

67885 002 LEC, 08:15-09:30 TTh, Murphy Hall 214, In Person Term Based; Chaise Knutson ; 3 cr.

### 3279W Professional Writing for Strategic Communication

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program]WI)

55367 002 LEC, 09:45-11:00 MW, Johnston Hall B16, In Person Term Based; Eva Keiser ; 3 cr.

55368 003 LEC, 11:15-12:30 TTh, Johnston Hall B16, In Person Term Based; Scott Meyer ; 3 cr.

67887 004 LEC, 16:00-17:15 TTh, Johnston Hall B16, In Person Term Based; Cecilia Mische ; 3 cr.

### 3321 Media Design

(A-F only; Prereq: [Jour 3004 or 3004H or concurrent registration], [Jour major, Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

53099 001 LAB, 08:00-09:55 MW, Murphy Hall 10 North, In Person Term Based; Susan Andre ; 3 cr.

53966 002 LAB, 10:10-12:05 MW, Murphy Hall 10 North, In Person Term Based; Sara Quinn ; 3 cr.

54787 003 LAB, 12:20-14:15 MW, Murphy Hall 10 North, In Person Term Based; Jeanne Schacht ; 3 cr.

55145 004 LAB, 10:10-12:05 TTh, Murphy Hall 10 South, In Person Term Based; Sara Quinn ; 3 cr.

### 3451 TV, Radio and Digital News Reporting

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, Jour 3102, [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

54222 001 LEC, 14:30-16:25 MW, Murphy Hall 10 South, In Person Term Based; Scott Libin ; 3 cr.

### 3551 The Business of Digital Media: Innovation, Disruption, and Adaptation

(Student Option; TS)

55807 001 LEC, 14:30-15:45 TTh, Murphy Hall 214, In Person Term Based; Colin Agur ; 3 cr.

### 3553 Mobile Communication

(Student Option; TS)

66296 001 LEC, 13:00-14:15 TTh, Murphy Hall 214, In Person Term Based; Colin Agur ; 3 cr.

### 3741 Diversity and Mass Communication

(Student Option; DSJ)

66297 001 LEC, 14:30-15:45 MW, Rapson Hall 43, In Person Term Based; Maral Abdollahi ; 3 cr.

### 3745 Mass Media and Popular Culture

(Student Option; AH,DSJ)

52492 001 LEC, Completely Online; Ruth DeFoster ; 3 cr.

54633 002 LEC, 14:30-15:45 TTh, Murphy Hall 130, In Person Term Based; Diane Cormany ; 3 cr.

### 3751 Digital Media and Culture

(Student Option; AH,TS)

54323 001 LEC, 09:45-11:00 MW, Nicholson Hall 155, In Person Term Based; Scott Memmel ; 3 cr.

67891 002 LEC, Completely Online; Valerie Belair-Gagnon ; 3 cr.

### 3757 Principles of Health Communication

(Student Option; )

55808 001 LEC, 11:15-12:30 TTh, Murphy Hall 214, In Person Term Based; Marco Yzer ; 3 cr.

### 3771 Media Ethics

(Student Option; CIV)

53074 001 LEC, 13:00-14:15 MW, Rapson Hall 45, In Person Term Based; Craig Flournoy ; 3 cr.

### 3775 Administrative Law and Regulation for Strategic Communication

(Student Option; CIV)

54589 001 LEC, 11:15-12:30 MW, Murphy Hall 228, In Person Term Based; Christopher Terry ; 3 cr.

### 3776 Mass Communication Law

(A-F only; )

52493 001 LEC, 08:15-09:30 TTh, Murphy Hall 130, In Person Term Based; Meets With: 001 JOUR 3776H; Jane Kirtley ; 3 cr.

### 3776H Mass Communication Law

(A-F only; Prereq: Honors)

55048 001 LEC, 08:15-09:30 TTh, Murphy Hall 130, In Person Term Based; Meets With: 001 JOUR 3776; Jane Kirtley ; 3 cr.

### 3896 Directed Internship

(S-N only; Prereq: Jour major, dept consent)

53566 001 FWK, 00:00-00:00 , , In Person Term Based; Jennifer Johnson ; 1 cr.

53933 002 FWK, 00:00-00:00 , , In Person Term Based; Gayle Golden ; 1 cr.

53934 003 FWK, 00:00-00:00 , , In Person Term Based; 1 cr.

53935 004 FWK, 00:00-00:00 , , In Person Term Based; 1 cr.

54548 006 FWK, 00:00-00:00 , , In Person Term Based; 1 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.)

53461 001 IND, 00:00-00:00 , , In Person Term Based; Sherri Katz ; 1-3 cr.

53565 002 IND, 00:00-00:00 , , In Person Term Based; Amy O'Connor ; 1-3 cr.

56661 003 IND, In Person Term Based; Benjamin Toff ; 1-3 cr.

#### 4172 Sports Reporting

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, Jour 3121 or instructor permission, [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

55988 001 LEC, 09:45-11:00 TTh, Murphy Hall 15, In Person Term Based; Michael Rand ; 3 cr.

#### 4175 Brovald-Sim Community Journalism Practicum

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, [Jour 3103 or Jour 3121 or Jour 3155 or Jour 3173 or Jour 4302], [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

54651 001 LEC, 14:30-15:45 TTh, Murphy Hall 10H, 14:30-15:45 TTh, Murphy Hall 10 Center, In Person Term Based; Gayle Golden ; 3 cr.

#### 4242 Advertising Portfolio Development

(A-F only; Prereq: [Jour 3004W or 3004V], Jour 3201, Jour 3241, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54009 001 LEC, 14:30-15:45 TTh, Murphy Hall 25, In Person Term Based; Jennifer Johnson ; 3 cr.

#### 4243 Digital Content Development and Production for Brand Communications

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3201, [Jour 3241 or Jour 3279], [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54979 001 LAB, 16:45-18:40 MW, Murphy Hall 10 North, In Person Term Based; Christopher Havens ; 3 cr.

55622 002 LAB, 08:00-09:55 TTh, Murphy Hall 10 North, In Person Term Based; Rachel Slavik ; 3 cr.

#### 4251 Psychology of Advertising

(Student Option; )

54678 001 LEC, 11:15-12:30 MW, Mayo Bldg & Additions C231, In Person Term Based; Ruth DeFoster ; 3 cr.

66298 002 LEC, 13:00-14:15 TTh, Murphy Hall 130, In Person Term Based; Claire Segijn ; 3 cr.

#### 4259 Strategic Communication Case Analysis

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3201, any 32xx skills course, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54645 001 LEC, 14:30-15:45 MW, Ford Hall 150, In Person Term Based; Yan Qu ; 3 cr.

66301 002 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Stacey Kanihan ; 3 cr.

#### 4262 Management for Strategic Communication

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3201, any 32xx skills course, [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54867 001 LEC, 11:15-12:30 TTh, Murphy Hall 228, In Person Term Based; Richard McCracken ; 3 cr.

#### 4263 Strategic Communication Campaigns

(A-F or Audit; Prereq: [Jour 3004 or 3004H], Jour 3201, any 32xx skills course, [any 4/5xxx skills course or Fior 3007 or concurrent registration], [Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

52495 001 LAB, 08:00-09:55 MW, Murphy Hall 214, In Person Term Based; Troy Longie ; 3 cr.

53103 004 LAB, 16:40-18:35 MW, Murphy Hall 228, In Person Term Based; Mark Morse ; 3 cr.

54590 003 LAB, 14:30-16:25 MW, Murphy Hall 228, In Person Term Based; Richard McCracken ; 3 cr.

54868 006 LAB, 14:30-16:25 TTh, Murphy Hall 228, In Person Term Based; Richard McCracken ; 3 cr.

55020 002 LAB, 10:10-12:05 MW, Murphy Hall 214, In Person Term Based; Mark Jensen ; 3 cr.

55021 007 LAB, 16:40-18:35 TTh, Murphy Hall 228, In Person Term Based; David Krejci ; 3 cr.

55369 005 LAB, 08:00-09:55 TTh, Murphy Hall 25, In Person Term Based; Ann Karich ; 3 cr.

#### 4272 Digital Advertising: Theory and Practice

(A-F or Audit; )

53931 001 LEC, 11:15-12:30 TTh, Bruininks Hall 330, In Person Term Based; Jisu Huh ; 3 cr.

#### 4274W Advertising in Society

(Student Option; WI)

55809 002 LEC, 14:30-15:45 MW, Nicholson Hall 275, In Person Term Based; Ruth DeFoster ; 3 cr.

#### 4303 Advanced Visual Storytelling

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, Jour 3102, [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

54869 001 LEC, 13:00-14:15 MW, Murphy Hall 10 South, In Person Term Based; Regina McCombs ; 3 cr.

#### 4452 Newscast Producing

(A-F only; Prereq: [Jour 3004 or 3004H], Jour 3101, Jour 3102, Jour 3451, [Jour 3121 or concurrent registration], [Jour major, Mass Comm major or approved BIS/IDIM/ICP program])

54870 001 LEC, 09:05-09:55 MWF, Murphy Hall 10 South, 09:05-09:55 MWF, Murphy Hall 10, 09:05-09:55 MWF, Murphy Hall 10H, In Person Term Based; Scott Libin ; 3 cr.

54871 002 LAB, 10:10-11:00 MWF, Murphy Hall 10 South, 10:10-11:00 MWF, Murphy Hall 10H, 10:10-11:00 MWF, Murphy Hall 10, In Person Term Based; Scott Libin ; 3 cr.

#### 4459 Special Topics in Mass Communication: Context

(A-F or Audit; )

66679 001 LEC, 09:45-11:00 WF, Twin Cities Remote, Completely Online; Marissa Evans ; 3 cr.

#### 4469 Special Topics in Journalism Skills

(A-F only; Prerequisites specified in Class Schedule. ? Students must be Journalism majors and meet the prerequisites for the specific course offering.)

67815 001 LEC, 16:00-17:15 TTh, Murphy Hall 25, In Person Term Based; Craig Flournoy ; 3 cr.

#### 4721 Mass Media and U.S. Society

(Student Option; DSJ,SOCS)

54596 001 LEC, 09:45-11:00 TTh, Murphy Hall 228, In Person Term Based; Meets With: 001 JOUR 4721H; Sid Bedingfield ; 3 cr.

#### 4721H Mass Media and U.S. Society

(A-F only; Prereq: honorsDSJ,SOCS)

54597 001 LEC, 09:45-11:00 TTh, Murphy Hall 228, In Person Term Based; Meets With: 001 JOUR 4721; Sid Bedingfield ; 3 cr.

#### 4790 Special Topics in Strategic

##### Communication Skills - Execution

(A-F only; Prerequisites specified in Class Schedule. ? Students must be Strategic Communication majors and meet the prerequisites for the specific course offering.)

66677 001 LEC, 13:00-14:15 MW, Murphy Hall 25, In Person Term Based; Paul Charchian ; 3 cr.

#### 4801 Global Communication

(Student Option; )

55392 001 LEC, 13:00-14:15 M, Twin Cities Remote, Completely Online; Giovanna Dell'Orto ; 3 cr.

#### 4999 Capstone

(S-N only; )

66304 001 LEC, Completely Online; Susan LoRusso ; 1 cr.

66305 002 LEC, Completely Online; Sid Bedingfield ; 1 cr.

66306 003 LEC, Completely Online; Colin Agur ; 1 cr.

66307 004 LEC, Completely Online; Sarah Wiley ; 1 cr.

66308 005 LEC, Completely Online; Elaine Hargrove ; 1 cr.

66782 006 LEC, Completely Online; Scott Memmel ; 1 cr.

#### 5174 Magazine Editing and Production

(A-F only; Prereq: [Jour 3004 or 3004H], [Jour 3101 and [Jour 3155 or Jour 3173 or Jour 3321 or Jour 4171 or Jour 4302]] or Jour 3279 , [Jour major, Strat Comm major, Mass Comm major or approved BIS/IDIM/ICP program])

54312 001 LAB, 14:30-16:25 MW, Murphy Hall 214, 14:30-16:25 MW, Murphy Hall 10H, 14:30-16:25 MW, Murphy Hall 10 North, 14:30-16:25 MW, Murphy Hall 10 Center, In Person Term Based; Sara Quinn ; 3 cr.

#### 5251 Strategic Communication Theory

(Student Option; )

53812 001 LEC, 17:30-20:00 T, Murphy Hall 214, Partially Online; Michelle Wood ; 3 cr.

#### 5501 Communication, Public Opinion, and Social Media

(Student Option; )

66309 001 LEC, 13:00-14:15 W, Twin Cities Remote, Completely Online; Emily Vraga ; 3 cr.

#### 5552 Law of Internet Communication

(A-F or Audit; )

66311 001 LEC, 09:45-11:00 MW, Murphy Hall 15, In Person Term Based; Christopher Terry ; 3 cr.

#### 5606W Literary Aspects of Journalism

(Student Option; WI)

54701 001 LEC, 11:15-12:30 TTh, Murphy Hall 25, In Person Term Based; Meets With: 001 ENGW5606W; Gayle Golden ; 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.)

53104 001 IND, In Person Term Based; Adam Saffer ; 1-3 cr.

53567 002 IND, 00:00-00:00 , , In Person Term Based; ; 1-3 cr.

### Kenya (KNYA)

### Kinesiology (KIN)

#### 1871 Survey of Kinesiology, Recreation, and Sport

(A-F or Audit; )

51117 001 LEC, 08:15-09:30 TTh, Rapson Hall 100, In Person Term Based; Meets With: 002 KIN 1871; 3 cr.

51659 002 LEC, 08:15-09:30 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 KIN 1871; 3 cr.

#### 3001 Lifetime Health and Wellness

(A-F or Audit; SOCS)

51113 001 LEC, 09:45-11:00 TTh, Armory Building 202, In Person Term Based; 3 cr.

51299 002 LEC, 11:15-12:30 TTh, Armory Building 202, In Person Term Based; 3 cr.

51618 003 LEC, 13:00-14:15 TTh, Armory Building 202, In Person Term Based; 3 cr.

#### 3027 Human Anatomy for Kinesiology

Students

(A-F or Audit; )

51262 001 LEC, 11:15-12:05 MW, Rapson Hall 56, In Person Term Based; Otto Sanchez ; 4 cr.

51263 002 LAB, 12:20-14:00 W, Mariucci Arena 141, In Person Term Based; 4 cr.

51264 003 LAB, 14:30-16:10 W, Mariucci Arena 141, In Person Term Based; 4 cr.

51728 004 LAB, 12:20-14:00 M, Mariucci Arena 141, In Person Term Based; 4 cr.

51807 005 LAB, 14:30-16:10 M, Mariucci Arena 141, In Person Term Based; 4 cr.

#### 3112 Introduction to Biomechanics

(A-F only; Prereq: [PHYS 1101W or PHYS 1201W or PHYS 1221 or PHYS 1301W or PHYS 1401V or 1107], [3027 or 3111 or ANAT 3001 or ANAT 3601 or ANAT 3611 or INMD 3001 or INMD 3601]; 3385 recommended)

51126 001 LEC, 09:05-11:00 T, Smith Hall 231, In Person Term Based; Juergen Konczak ; 4 cr.

51195 002 LAB, 08:15-09:55 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 4 cr.

51196 003 LAB, 10:10-11:50 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 4 cr.

51197 004 LAB, 12:05-13:45 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 4 cr.

51532 005 LAB, 14:00-15:40 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 4 cr.

51764 006 LAB, 16:00-17:40 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 4 cr.

52205 007 LAB, 18:00-19:40 Th, Cooke Hall 20, In Person Term Based; Juergen Konczak ; 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])

51116 001 LEC, 09:45-11:00 MW, Mechanical Engineering 221, In Person Term Based; Ronni Beatty-Kollasch ; 3 cr.

52140 002 LEC, 11:15-12:30 MW, Mechanical Engineering 221, In Person Term Based; Debbie Dalsin ; 3 cr.

#### 3126W Sport and Exercise Psychology

(A-F or Audit; Prereq: Kin major or instr consentWI)

51110 001 LEC, 09:05-09:55 MW, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.

51265 002 DIS, 08:00-08:50 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.

51651 003 DIS, 09:05-09:55 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.

51740 004 DIS, 10:10-11:00 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.  
 51741 005 LEC, 10:10-11:00 MW, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.  
 51742 006 DIS, 11:15-12:05 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.  
 52203 007 DIS, 12:20-13:10 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.  
 52204 008 DIS, 13:25-14:15 F, Cooke Hall 215, In Person Term Based; Chelsey Thul ; 3 cr.

**3131W History and Philosophy of Sport**  
 (A-F or Audit; Prereq: Kin major or instr consentW)  
 51104 001 LEC, 14:30-15:45 TTh, Tate Hall 105, In Person Term Based; Dunja Antunovic ; 3 cr.

**3132 Introduction to Motor Development Across the Lifespan**  
 (A-F only; Prereq: Kin major or instr consent)  
 51300 001 LEC, 11:15-12:30 TTh, Bruininks Hall 220, In Person Term Based; George Bailey ; 3 cr.

**3135 Introduction to Motor Learning and Control**  
 (A-F or Audit; )  
 51103 001 LEC, 09:05-09:55 WF, Rapson Hall 56, In Person Term Based; Rachel Hawe ; 3 cr.  
 51743 002 LAB, 09:05-09:55 M, Cooke Hall 20, In Person Term Based; 3 cr.  
 51744 003 LAB, 10:10-11:00 M, Cooke Hall 20, In Person Term Based; 3 cr.  
 51745 004 LAB, 11:15-12:05 M, Cooke Hall 20, In Person Term Based; 3 cr.  
 52221 005 LAB, 12:20-13:10 M, Cooke Hall 20, In Person Term Based; 3 cr.  
 52222 006 LAB, 13:25-14:15 M, Cooke Hall 20, In Person Term Based; 3 cr.

**3136 Mental Skills Training for Sport**  
 (A-F only; )  
 67694 001 LEC, 09:45-11:00 TTh, Cooke Hall 215, In Person Term Based; Andrea Silva ; 3 cr.

**3327 Teaching Physical Education in the Elementary School**  
 (A-F only; )  
 51102 001 LEC, 13:25-15:20 T, University Rec Center 320, In Person Term Based; Matt Vollum ; 2 cr.  
 51198 002 LEC, 13:25-15:20 W, University Rec Center 320, In Person Term Based; Matt Vollum ; 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)  
 51504 001 LEC, 11:15-12:30 TTh, Akerman Hall 209, In Person Term Based; Otto Sanchez ; 4 cr.  
 51536 002 LAB, 13:25-14:15 T, Mariucci Arena 141, In Person Term Based; Otto Sanchez ; 4 cr.  
 51537 003 LAB, 14:30-15:20 T, Mariucci Arena 141, In Person Term Based; Otto Sanchez ; 4 cr.  
 51774 004 LAB, 15:35-16:25 T, Mariucci Arena 141, In Person Term Based; Otto Sanchez ; 4 cr.

**3696 Supervised Practical Experience**  
 (S-N only; Prereq: instr consent)  
 51118 001 FWK, 00:00-00:00 , , In Person Term Based; Colin Rogness ; 1-10 cr.  
 51748 006 FWK, In Person Term Based; Colin Rogness ; 1-10 cr.  
 52456 002 FWK, In Person Term Based; Tracey Hammell ; 1-10 cr.

**3982 Research Methods in Kinesiology, Physical Activity, Health Promotion + Sport**  
 (A-F or Audit; Prereq: Kinesiology Major or Physical Activity and Health Promotion Major or Sport Management Major)  
 51912 001 LEC, 14:30-15:45 MW, Cooke Hall 206, In Person Term Based; Kaitlyn Swinney ; 3 cr.  
 51913 002 LEC, 13:00-14:15 MW, Cooke Hall 206, In Person Term Based; 3 cr.  
 51914 003 LEC, 13:00-14:15 TTh, Cooke Hall 206, In Person Term Based; Katie Schuver ; 3 cr.  
 52084 004 LEC, 14:30-15:45 TTh, Cooke Hall 206, In Person Term Based; Katie Schuver ; 3 cr.

**3993 Directed Study in Kinesiology**  
 (A-F only; )  
 51131 019 IND, 00:00-00:00 , , In Person Term Based; Tom Stoffregen ; 1-10 cr.  
 51132 025 IND, 00:00-00:00 , , In Person Term Based; Diane Wiese-Bjornstal ; 1-10 cr.

51274 004 IND, 00:00-00:00 , , In Person Term Based; Donald Dengel ; 1-10 cr.  
 51302 002 IND, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-10 cr.  
 51527 027 IND, 00:00-00:00 , , In Person Term Based; Nicole LaVoi ; 1-10 cr.  
 51558 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-10 cr.  
 51580 023 IND, 00:00-00:00 , , In Person Term Based; Maureen Weiss ; 1-10 cr.  
 51587 029 IND, 00:00-00:00 , , In Person Term Based; Beth Lewis ; 1-10 cr.  
 51747 045 IND, 00:00-00:00 , , In Person Term Based; Zan Gao ; 1-10 cr.  
 51769 006 IND, 00:00-00:00 , , In Person Term Based; Li Li Ji ; 1-10 cr.  
 51942 001 IND, 00:00-00:00 , , In Person Term Based; Daheia Barr-Anderson ; 1-10 cr.  
 52157 005 IND, In Person Term Based; Sarah Greising ; 1-10 cr.  
 52240 015 IND, In Person Term Based; Vicki Schull ; 1-10 cr.  
 52245 014 IND, In Person Term Based; Christopher Lundstrom ; 1-10 cr.  
 52473 009 IND, In Person Term Based; Brandi Hoffman ; 1-10 cr.  
 69052 047 IND, In Person Term Based; Rachel Hawe ; 1-10 cr.  
 69491 050 IND, In Person Term Based; Dunja Antunovic ; 1-10 cr.

**4001H Honors Seminar in KIN, PAHP, + SMGT**  
 (A-F only; )  
 51512 001 LEC, 10:10-11:40 Th, Peik Gymnasium G65, In Person Term Based; Dunja Antunovic ; 3 cr.

**4214 Health Promotion**  
 (A-F only; )  
 52143 001 LEC, 09:45-11:00 TTh, Akerman Hall 225, In Person Term Based; Stephanie Grace ; 3 cr.  
 66785 002 LEC, 13:00-14:15 TTh, Akerman Hall 225, In Person Term Based; Stephanie Grace ; 3 cr.

**4385 Exercise Physiology**  
 (A-F or Audit; Prereq: KIN 3385 or PHSL 3051 and Kinesiology Major or Physical Activity and Health Promotion Major)  
 51119 001 LEC, 13:25-14:15 MW, Anderson Hall 210, In Person Term Based; Donald Dengel ; 4 cr.  
 51199 002 LAB, 08:00-09:50 W, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.  
 51200 004 LAB, 08:00-09:50 F, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.  
 51201 003 LAB, 10:00-11:50 W, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.  
 51215 005 LAB, 10:00-11:50 F, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.  
 51746 006 LAB, 08:00-09:50 M, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.  
 51932 007 LAB, 10:00-11:50 M, Mariucci Arena 141, In Person Term Based; Donald Dengel ; 4 cr.

**4441 Movement Neuroscience**  
 (A-F only; Prereq: 3135 or instr consent)  
 66687 001 LEC, 09:00-11:30 F, Cooke Hall 214, In Person Term Based; Naveen Elangovan ; 3 cr.

**4641 Training Theory & Analytics I for Exercise & Sport Performance**  
 (A-F only; Prerequisite: Students pursuing the Kinesiology B.S., Sports Coaching Minor, Health and Wellness Promotion Minor, Sport and Exercise Science M.Ed, Physical Activity and Health M.Ed, or instructor consent.)  
 51693 001 LEC, 11:15-12:30 MW, Akerman Hall 211, In Person Term Based; Christopher Lundstrom ; 3 cr.

**4687 Principles and Theory of Sports Coaching**  
 (A-F only; )  
 52223 001 LEC, 16:00-18:30 Th, Mechanical Engineering 221, In Person Term Based; Courtney Boucher ; 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])  
 52335 001 LEC, 13:00-14:15 MW, Akerman Hall 211, In Person Term Based; Christopher Lundstrom ; 3 cr.

**5104 Physical Activities for Persons with Disabilities**  
 (A-F or Audit; )

52148 001 LEC, 16:40-19:10 T, Akerman Hall 313, In Person Term Based; Kathleen Healy ; 3 cr.

**5115 Event Management in Sport**  
 (A-F or Audit; Prereq: Grad student, instr consent)  
 52235 001 LEC, 16:10-18:40 W, Akerman Hall 211, In Person Term Based; Clinton Warren, PhD ; 3 cr.

**5123 Motivational Interventions in Physical Activity**  
 (A-F only; )  
 51664 001 LEC, 11:15-12:30 T, Akerman Hall 227, Partially Online; Beth Lewis ; 3 cr.

**5125 Advances in Physical Activity and Health**  
 (A-F only; )  
 52147 001 LEC, 10:15-11:30 F, Twin Cities Remote, Completely Online; Zan Gao ; 3 cr.

**5126 Social Psychology of Sport & Physical Activity**  
 (A-F only; Prereq: 3126W or equiv or grad student or instr consent)  
 67743 001 LEC, 09:45-11:00 TTh, Cooke Hall 206, In Person Term Based; Maureen Weiss ; 3 cr.

**5181 Understanding Kinesiology Research**  
 (A-F only; Prerequisite: Introductory statistics)  
 67836 001 LEC, 16:00-17:15 W, Twin Cities Remote, Completely Online; Katie Schuver ; 3 cr.

**5385 Exercise for Healthy Aging & Disease Prevention and Management**  
 (A-F only; Prereq: Physiology or biology undergrad)  
 68393 001 LEC, 17:10-18:25 TTh, Cooke Hall 214, In Person Term Based; Otto Sanchez ; 3 cr.

**5601 Sport Management Ethics and Policy**  
 (A-F or Audit; Prereq: MEd or grad student or instr consent)  
 51301 001 LEC, 15:35-17:55 T, Cooke Hall 215, 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)  
 51951 001 LEC, 17:30-20:00 Th, Akerman Hall 227, In Person Term Based; Clinton Warren, PhD ; 3 cr.

**5643 Applied Motion Capture and Movement Analysis Technology**  
 (A-F only; )  
 66766 001 LEC, 14:30-15:45 MW, Armory Building 202, In Person Term Based; Divya Bhaskaran ; 3 cr.

**5696 Practicum in Kinesiology**  
 (S-N only; Prereq: [KIN MEd or grad student], instr consent)  
 51269 002 FWK, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-6 cr.  
 51677 021 FWK, 00:00-00:00 , , In Person Term Based; Michael Wade ; 1-6 cr.  
 51694 015 FWK, 00:00-00:00 , , In Person Term Based; Vicki Schull ; 1-6 cr.  
 52244 014 FWK, In Person Term Based; Christopher Lundstrom ; 1-6 cr.

**5720 Special Topics in Kinesiology**  
 (A-F only; )  
 68391 001 LEC, 13:00-14:15 TTh, Amundson Hall 124, In Person Term Based; Andrea Silva ; 2-4 cr.

**5725 Organization and Management of Physical Education and Sport**  
 (A-F only; Prereq: Grad/initial licensure or instr consent)  
 51713 001 LEC, 14:30-17:00 M, Keller Hall 2-260, In Person Term Based; Landy Lu ; 3 cr.

**5804 National Collegiate Athletic Association (NCAA) Compliance**  
 (A-F only; Prereq: [Upper div undergrad or grad student] in KIN, instr consent)  
 51698 001 LEC, 17:40-19:25 M, Akerman Hall 327, In Person Term Based; Jeremiah Carter, John Wallace ; 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])  
 66767 001 LEC, 14:30-17:00 T, Armory Building 202, 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)

- 51143 021 IND, 00:00-00:00 , , In Person Term Based; Michael Wade ; 1-9 cr.
- 51144 019 IND, 00:00-00:00 , , In Person Term Based; Tom Stoffregen ; 1-9 cr.
- 51145 025 IND, 00:00-00:00 , , In Person Term Based; Diane Wiese-Bjornstal ; 1-9 cr.
- 51275 004 IND, 00:00-00:00 , , In Person Term Based; Donald Dengel ; 1-9 cr.
- 51303 002 IND, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-9 cr.
- 51528 027 IND, 00:00-00:00 , , In Person Term Based; Nicole LaVoi ; 1-9 cr.
- 51559 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-9 cr.
- 51581 023 IND, 00:00-00:00 , , In Person Term Based; Maureen Weiss ; 1-9 cr.
- 51586 029 IND, 00:00-00:00 , , In Person Term Based; Beth Lewis ; 1-9 cr.
- 51770 006 IND, 00:00-00:00 , , In Person Term Based; Li Li Ji ; 1-9 cr.
- 51831 045 IND, 00:00-00:00 , , In Person Term Based; Zan Gao ; 1-9 cr.
- 51943 001 IND, 00:00-00:00 , , In Person Term Based; Daheia Barr-Anderson ; 1-9 cr.
- 52156 005 IND, In Person Term Based; Sarah Greising ; 1-9 cr.
- 52241 015 IND, In Person Term Based; Vicki Schull ; 1-9 cr.
- 52246 014 IND, In Person Term Based; Christopher Lundstrom ; 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)

- 51560 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-6 cr.
- 52242 015 IND, 12:20-14:15 M, Cooke Hall 215, In Person Term Based; Vicki Schull ; 1-6 cr.
- 52247 014 IND, 12:00-14:30 F, Cooke Hall 206, In Person Term Based; Christopher Lundstrom ; 1-6 cr.

**Korean (KOR)****1012 Beginning Korean II**

(Student Option No Audit; Prereq: 1011)

- 53418 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 001 KOR 4002; Fatima Walji Han ; 5 cr.
- 53713 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 002 KOR 4002; Fatima Walji Han ; 5 cr.
- 53714 050 LEC, 17:40-20:00 TTh, Twin Cities Remote, Completely Online; Meets With: 050 KOR 4002; Bryce Johnson ; 5 cr.
- 54601 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 116, In Person Term Based; Meets With: 003 KOR 4002; Jiyeon Pyeon, Suyon Kim ; 5 cr.
- 54789 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 004 KOR 4002; Jiyeon Pyeon, Suyon Kim ; 5 cr.
- 55317 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 121, In Person Term Based; Meets With: 005 KOR 4002; Bryce Johnson ; 5 cr.

**3022 Intermediate Korean II**

(Student Option No Audit; Prereq: 3021)

- 53593 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 KOR 4004; Sugyung Kim ; 5 cr.
- 54603 050 LEC, 17:00-19:20 TTh, Folwell Hall 123, In Person Term Based; Meets With: 050 KOR 4004; Sugyung Kim ; 5 cr.
- 54663 002 LEC, 15:35-16:25 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 KOR 4004; Sugyung Kim ; 5 cr.

**3032 Third Year Korean II**

(Student Option No Audit; Prereq: 3031)

- 53616 001 LEC, 15:35-17:30 MW, Folwell Hall 106, In Person Term Based; Meets With: 001 KOR 4006; Suyon Kim ; 4 cr.
- 68980 002 LEC, 15:35-17:30 TTh, Folwell Hall 104, In Person Term Based; Meets With: 002 KOR 4006; Suyon Kim ; 4 cr.

**3290 Korean Language Teaching Tutorial**

(S-N only; Prereq: Grade of A in 3032)

- 54296 001 FWK, In Person Term Based; Hangtae Cho ; 1 cr.

**4002 Beginning Korean II for Graduate Student Research**

(Student Option No Audit; Prereq: 4001)

- 53617 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 001 KOR 1012; Fatima Walji Han ; 5 cr.
- 53715 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 002 KOR 1012; Fatima Walji Han ; 5 cr.
- 53716 050 LEC, 17:40-20:00 TTh, Twin Cities Remote, Completely Online; Meets With: 050 KOR 1012; Bryce Johnson ; 5 cr.
- 54602 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 116, In Person Term Based; Meets With: 003 KOR 1012; Jiyeon Pyeon, Suyon Kim ; 5 cr.
- 54790 004 LEC, 12:20-13:10 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 004 KOR 1012; Jiyeon Pyeon, Suyon Kim ; 5 cr.
- 55319 005 LEC, 13:25-14:15 MTWThF, Folwell Hall 121, In Person Term Based; Meets With: 005 KOR 1012; Bryce Johnson ; 5 cr.

**4004 Intermediate Korean II for Graduate Student Research**

(Student Option No Audit; Prereq: 4003)

- 53686 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 KOR 3022; Sugyung Kim ; 5 cr.
- 54606 050 LEC, 17:00-19:20 TTh, Folwell Hall 123, In Person Term Based; Meets With: 050 KOR 3022; Sugyung Kim ; 5 cr.
- 54664 002 LEC, 15:35-16:25 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 KOR 3022; Sugyung Kim ; 5 cr.

**4006 Third Year Korean II for Graduate Student Research**

(Student Option No Audit; Prereq: 4005)

- 53917 001 LEC, 15:35-17:30 MW, Folwell Hall 106, In Person Term Based; Meets With: 001 KOR 3032; Suyon Kim ; 4 cr.
- 68981 002 LEC, 15:35-17:30 TTh, Folwell Hall 104, In Person Term Based; Meets With: 002 KOR 3032; Suyon Kim ; 4 cr.

**4042 Advanced Readings in Modern Korean II**

(Student Option; Prereq: 4041 or equiv or instr consent)

- 55466 001 LEC, 09:05-11:00 TTh, Folwell Hall 119, In Person Term Based; Hangtae Cho ; 4 cr.

**5993 Directed Studies**

(Student Option No Audit; Prereq: instr consent, dept consent, college consent)

- 54720 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, or instr consent)

- 62522 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Mary Ramey ; 3 cr.

**Land and Atmospheric Science (LAAS)****5051 Thesis Proposal Writing for Land & Atmospheric Science**

(A-F or Audit; )

- 57118 001 DIS, 11:35-13:15 T, Soils S415, In Person Term Based; Tracy Twine ; 2 cr.

**5311 Soil Chemistry and Mineralogy**

(Student Option; Prereq: [[Chem 1022 or equiv], Phys 1102, grad] or instr consent)

- 57257 001 LEC, 16:30-17:45 MW, Borlaug Hall 365, In Person Term Based; Brandy Toner ; 3 cr.

**5426 Atmospheric Processes II: Radiation, Composition, and Climate**

(A-F or Audit; Prereq: [one yr college-level [calculus, physics, chemistry]]; LAAS 5425 recommended)

- 57176 001 LEC, 16:00-17:15 TTh, Borlaug Hall 365, In Person Term Based; Dylan Millet ; 3 cr.

**5480 Special Topics in Land and Atmospheric Science**

(Student Option; Prereq: grad student or instr consent)

- 69580 001 LEC, 12:50-14:50 W, Soils S415, In Person Term Based; Peter Neff ; 1-4 cr.

**Landscape Architecture (LA)****1201 Learning from the Landscape**

(A-F or Audit; AH,DSJ)

- 50411 001 LEC, Completely Online; Patrick Nunnally ; 3 cr.

**1401 The Designed Environment**

(A-F or Audit; AH)

- 50044 001 LEC, 13:00-14:15 MW, Rapson Hall 43, In Person Term Based; Bradley Agee ; 3 cr.
- 50045 002 DIS, 13:00-14:15 F, Rapson Hall 43, In Person Term Based; Bradley Agee ; 3 cr.

**1601 Design and Equity**

(A-F or Audit; AH,DSJ)

- 50331 001 LEC, 13:00-14:15 TTh, Keller Hall 2-260, In Person Term Based; Kristine Miller ; 3 cr.

**2302 Computer-Aided Representation for Environmental Design**

(Student Option; )

- 67797 001 LAB, 10:10-11:00 T, Rapson Hall 33, 09:05-09:55 TTh, Rapson Hall 33, In Person Term Based; Andrew Beck, Jessica Rossi-Mastracci ; 3 cr.

**3002 Informants of Creating Landscape Space**

(A-F or Audit; )

- 50024 001 LEC, 09:05-12:05 MW, 1425 University Ave 75, In Person Term Based; John Koepke, Anthony Siebenaler-Ransom ; 4 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)

- 50107 001 LEC, 13:00-14:15 MW, Appleby Hall 302, In Person Term Based; Meets With: 001 LA 5004; Sungduck Lee ; 4 cr.
- 50286 002 LAB, 14:30-15:45 MW, Rapson Hall 33, In Person Term Based; Meets With: 002 LA 5004; Sungduck Lee ; 4 cr.

**3204 Holistic Landscape Ecology and Bioregional Practice**

(A-F or Audit; )

- 50008 001 LEC, 13:00-14:15 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 LA 5204; Laura Musacchio ; 3 cr.

**3514 Making the Mississippi**

(A-F or Audit; CIV)

- 50478 001 LAB, 13:00-14:15 MW, Rapson Hall 58, In Person Term Based; Meets With: 001 LA 5514; Patrick Nunnally ; 3 cr.

**4096 Internship in Landscape Design and Planning**

(S-N only; Prereq: 1301, 2301, 2302, 3001, 3002, 3003)

- 50108 001 FWK, 00:00-00:00 , , In Person Term Based; Bradley Agee ; 1 cr.

**5004 Regional Environmental Landscape Planning**

(Student Option; Prereq: PA 5271 or LA 5131 or FR 3131 or GEOG 3561 or GEOG 5561 or equivalent)

- 50374 001 LEC, 13:00-14:15 MW, Appleby Hall 302, In Person Term Based; Meets With: 001 LA 3004; Sungduck Lee ; 4 cr.
- 50379 002 LAB, 14:30-15:45 MW, Rapson Hall 33, In Person Term Based; Meets With: 002 LA 3004; Sungduck Lee ; 4 cr.

**5203 Ecological Dimensions of Space Making**

(A-F or Audit; Prereq: LA major or instr consent; recommended for both BED and Grad students)

- 49946 001 LAB, 13:30-17:30 MWF, Rapson Hall 261, In Person Term Based; Vincent deBritto ; 6 cr.

**5204 Metropolitan Landscape Ecology**

(A-F only; Prereq: BED accelerated status or LA grad student or instr consent)  
50016 001 LAB, 13:00-14:15 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 LA 3204; Laura Musacchio ; 3 cr.

### 5377 Representation II

(A-F only; Prereq: Master of Landscape Architecture (MLA) or Accelerated Bachelor of Environmental Design)  
50332 001 LAB, 10:10-11:50 Th, Rapson Hall 33, 09:05-09:55 TTh, Rapson Hall 33, In Person Term Based; Jessica Rossi-Mastracci, Andrew Beck ; 4 cr.

### 5514 Making the Mississippi

(A-F or Audit; )  
50111 001 LAB, 13:00-14:15 MW, Rapson Hall 58, 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])  
50343 001 LAB, 16:00-17:15 TTh, Pillsbury Hall 311, In Person Term Based; Tony Chevalier ; 3 cr.

## Language Centr CLA Courseshare (LANG)

### 1062 Beginning Persian II

(Student Option; )  
68597 001 LEC, 09:20-10:40 MTh, Twin Cities Remote, Completely Online; 4 cr.

### 1112 Beginning Turkish II

(Student Option; )  
68596 001 LEC, 09:20-10:40 MTh, Twin Cities Remote, Completely Online; 4 cr.

### 1132 Beginning Yiddish II

(Student Option; )  
68604 001 LEC, 12:00-13:00 Th, Twin Cities Remote, 12:00-13:30 MT, Twin Cities Remote, Completely Online; 4 cr.

### 1142 Beginning Yoruba II

(Student Option; )  
68606 001 LEC, 09:55-10:45 MTWTh, Twin Cities Remote, Completely Online; 4 cr.

### 1232 Beginning Modern Greek II

(Student Option No Audit; )  
56264 001 LEC, 09:20-10:40 MWTh, Twin Cities Remote, Completely Online; 4 cr.  
68600 002 LEC, 11:10-12:30 MWTh, Room TBA, In Person Term Based; 4 cr.

### 1272 French for Reading Knowledge

(Student Option; )  
69555 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 1321 Spanish for Reading Knowledge

(Student Option; )  
68579 001 LEC, 16:40-19:40 T, Twin Cities Remote, Completely Online; 3 cr.

### 1352 Beginning BCS (Bosnian, Croatian, Serbian) II

(Student Option; )  
68584 001 LEC, 08:10-09:00 MTWTh, Twin Cities Remote, Completely Online; 4 cr.

### 1372 Beginning Kinyarwanda II

(Student Option; )  
68585 001 LEC, 10:30-11:20 MTWTh, Twin Cities Remote, Completely Online; 4 cr.

### 2012 Accelerated Catalan II

(Student Option; )  
68602 001 LEC, 11:30-12:20 MWF, Twin Cities Remote, Completely Online; 2 cr.

### 2032 Intermediate Danish II

(Student Option; )  
68608 001 LEC, 09:55-10:45 MTWTh, Twin Cities Remote, Completely Online; 4 cr.

### 2062 Intermediate Persian II

(Student Option No Audit; )  
68599 001 LEC, 11:10-12:30 MTh, Twin Cities Remote, Completely Online; 4 cr.

### 2072 Intermediate Polish II

(Student Option; )  
68583 001 LEC, 09:20-10:10 MWF, Twin Cities Remote, Completely Online; 4 cr.

### 2232 Intermediate Modern Greek II

(Student Option No Audit; )  
56265 001 LEC, 12:10-13:30 MWTh, Twin Cities Remote, Completely Online; 4 cr.

### 2362 Intermediate Biblical Hebrew II

(Student Option; )  
68605 001 LEC, 13:30-15:00 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 2382 Intermediate Marathi II

(Student Option; )  
69573 001 LEC, Completely Online; 2 cr.

### 2383 Intermediate Marathi III

(Student Option; )  
69574 001 LEC, Completely Online; 2 cr.

### 3014 Reading Catalan for Research

Purposes  
(Student Option No Audit; )  
68581 001 LEC, 13:30-14:50 MW, Twin Cities Remote, Completely Online; 2 cr.

### 3062 Advanced Persian II

(Student Option; )  
69035 001 LEC, 13:00-16:00 F, Twin Cities Remote, Completely Online; 3 cr.

### 3122 Advanced Vietnamese II

(Student Option; )  
56587 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 3233 Advanced Modern Greek II

(Student Option No Audit; )  
69501 001 LEC, Completely Online; 3 cr.

### 3234 Advanced Hebrew: Ethics, Religion and Medicine

(Student Option; )  
69498 001 LEC, 09:00-10:30 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 3235 Advanced Hebrew: Hebrew Via Popular Culture

(Student Option; )  
69500 001 LEC, 09:00-10:30 MW, Twin Cities Remote, Completely Online; 3 cr.

### 3401 Regional Cultures of Brazil

(Student Option; )  
69575 001 LEC, Completely Online; 3 cr.

### 4072 Beginning Polish II

(Student Option; )  
68582 001 LEC, 08:10-09:00 MTWTh, Folwell Hall 118, In Person Term Based; 4 cr.

### 5010 Graduate Language Study

(Student Option No Audit; )  
68595 001 LEC, Completely Online; 3 cr.

### 5124 Advanced Vietnamese VI

(Student Option; )  
68609 001 LEC, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Stephanie Treat ; 3 cr.

### 5221 Introduction to Middle Egyptian & Hieroglyphics I

(Student Option No Audit; Prerequisites, previous education in Ancient Egyptian history and civilization is recommended. This course is offered as a basic introduction to that stage in the evolution of the Egyptian language known as "Middle Egyptian" (used as a vernacular c. 2300 - 1700 B.C., and as a "literary" dialect c. 2200 - 1350 B.C.) as revealed and written in the hieroglyphic script. Please email the Language Center at [elsie@umn.edu](mailto:elsie@umn.edu) for more information.)  
69629 001 LEC, 12:35-13:50 TTh, Twin Cities Remote, Completely Online; 3 cr.

### 5401 Regional Cultures of Brazil Graduate

(Student Option; )  
69576 001 LEC, Completely Online; 3 cr.

## Latin (LAT)

### 1002 Beginning Latin II

(Student Option; Prereq: Grade of at least C- or S in 1001 or instr consent)  
52751 002 LEC, 09:05-09:55 MTWThF, Folwell Hall 6, In Person Term Based; Anthony Thomas ; 5 cr.  
53554 001 LEC, 13:25-14:15 MTWThF, Kolthoff Hall 137, In Person Term Based; Fade Manley ; 5 cr.

### 3004 Intermediate Latin Poetry

(Student Option; )  
54646 002 LEC, 14:30-15:20 MTWTh, Bruininks Hall 144, In Person Term Based; Meets With: 002 LAT 5004; Charles McNamara ; 4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent and dept consent)  
52763 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 1-4 cr.

### 3994 Directed Research: Capstone

(Student Option; Prereq: [Greek-Latin or Latin major], three 3xxx Latin courses Students enrolling in this directed research course will complete the University's common Directed Research contract with the faculty mentor/evaluator. The Faculty member will ensure academic standards are upheld, including: - the work proposed is at the appropriate level for the course, academic in nature, and the student will be involved intellectually in the project. - the project scope is reasonable for one semester and the number of credits specified (42 hours of work per credit) - the faculty mentor is qualified to serve in this role - assessment of student learning and grading criteria are clear and appropriate - the student will be working in a respectful, inclusive environment. The contract will include the learning objectives for the course, the methods that will be employed, and how assessment will be conducted by the faculty mentor. The contract must be approved by the DUGS/academic approver of the major before the student can register.)  
53042 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 4 cr.

### 5004 Intermediate Latin Poetry for Graduate Research

(Student Option; )  
54927 002 LEC, 14:30-15:20 MTWTh, Bruininks Hall 144, In Person Term Based; Meets With: 002 LAT 3004; Charles McNamara ; 4 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent)  
52764 001 IND, 00:00-00:00 , , In Person Term Based; Charles McNamara ; 1-4 cr.

### 5994 Directed Research

(Student Option; Prereq: Grad student or instr consent)  
52766 001 IND, In Person Term Based; Charles McNamara ; 1-12 cr.

### 5996 Directed Instruction

(Student Option; Prereq: Grad student or instr consent)  
52765 001 IND, In Person Term Based; Charles McNamara ; 1-12 cr.

## Latin American Studies (LAS)

### 3402W Modern Latin America 1825 to Present

(Student Option; GP,WI,HIS)  
53836 001 DIS, 10:10-12:05 MW, Blegen Hall 240, In Person Term Based; Meets With: 001 HIST 3402W; Patrick McNamara ; 4 cr.

## Law School (LAW)

### 3000 Introduction to American Law and Legal Reasoning

(A-F only; )  
67822 002 LEC, 14:30-15:45 MW, Willey Hall 125, In Person Term Based; Meets With: 002 LAW 5000; Daniel Schwarcz ; 3 cr.

### 5000 Introduction to American Law and Legal Reasoning

(A-F only; )  
67823 002 LEC, 14:30-15:45 MW, Willey Hall 125, In Person Term Based; Meets With: 002 LAW 3000; Daniel Schwarcz ; 3 cr.

**5025 Patent Law Proseminar**

(S-N only ;)  
62192 001 LEC, 16:00-16:55 T, Twin Cities Remote,  
Completely Online; Meets With: 001 LAW 6925;  
Christopher Turoski ; 1 cr.

**5061 Financial Regulation**

(Student Option ;)  
62151 001 LEC, 16:00-19:00 M, Mondale Hall 35, In Person  
Term Based; Meets With: 001 LAW 6061; Niel Willardson,  
John Yanish ; 3 cr.

**5075 Ethics for Patent Agents**

(A-F only; Prereq: Master of Science Patent Law  
Students.)  
62024 001 LEC, 17:45-19:45 T, Mondale Hall 45, In Person  
Term Based; Jay Wahlquist ; 1 cr.

**5076 Essentials of Business for Lawyers**

(Student Option ;)  
62222 001 LEC, 13:25-14:50 MT, Mondale Hall 45, In Person  
Term Based; Charles Meyer, Paul Vaaler ; 3 cr.

**5100 Taxation I**

(A-F only ;)  
62249 001 LEC, 10:40-12:05 WF, Mondale Hall 50, In  
Person Term Based; Meets With: 001 LAW 6100; Amy  
Monahan ; 3 cr.

**5102 Mergers and Acquisitions**

(Student Option ;)  
66318 001 LEC, 13:25-14:50 MT, Mondale Hall 55, In Person  
Term Based; Meets With: 001 LAW 6102; Claire Hill ; 3 cr.

**5103 Data Privacy Law**

(A-F only ;)  
68438 001 LEC, 10:40-12:05 ThF, Mondale Hall 45, In  
Person Term Based; Meets With: 001 LAW 6103; William  
McGeeveran ; 3 cr.

**5127 Patent Drafting and Oral Advocacy  
Competition Team**

(A-F only; Prereq or co-req one of the following: Law  
5224 Patents, Law 5231 Patent Prosecution I, Law 5243  
Patent Research & Writing, or Director of Patent Law  
Programs permission)  
62251 001 LEC, In Person Term Based; Meets With: 001  
LAW 7127; Christopher Turoski ; 1 cr.

**5214 Insurance Law**

(Student Option ;)  
62233 001 LEC, 10:40-12:05 MT, Mondale Hall 40, In  
Person Term Based; Meets With: 001 LAW 6214; Daniel  
Schwarcz ; 3 cr.

**5232 Patent Prosecution Practice II**

(A-F only; Prereq: Master of Science Patent Law  
Students only.)  
62020 001 LEC, 15:35-17:35 W, Mondale Hall 45, In Person  
Term Based; Meets With: 001 LAW 6232; Brian Dawley,  
Ambar Nayate ; 3 cr.

**5290 Patent Law Capstone: Innovation**

(A-F only ;)  
62023 001 LEC, 17:45-19:45 W, Mondale Hall 45, In Person  
Term Based; Meets With: 001 LAW 6490; Christopher  
Frank, Michael Dugan ; 3 cr.

**5608 Trademarks**

(Student Option ;)  
62113 001 LEC, 13:25-14:50 MT, Mondale Hall 30, In Person  
Term Based; Meets With: 001 LAW 6608; Jon Lee ; 3 cr.

**5629 Patent Field Placement**

(S-N only; Prereq or co-req one of the following: Law  
5224 Patents, Law 5231 Patent Prosecution I, Law 5243  
Patent Research & Writing, or Director of Patent Law  
Programs permission.)  
62248 001 FWK, In Person Term Based; Meets With: 001  
LAW 7629; Christopher Turoski ; 1-3 cr.

**5707 Intellectual Property Transactions**

(A-F only ;)  
62022 001 LEC, 17:45-19:45 M, Mondale Hall 45, In Person  
Term Based; Meets With: 001 LAW 6707; Robert Leonard ;  
2 cr.

**5836 Trade Secret Law**

(Student Option ;)  
62260 001 LEC, 13:25-15:25 F, Mondale Hall 7, In Person  
Term Based; Meets With: 001 LAW 6836; Kirby Lee, James  
Smith ; 2 cr.

**5908 Independent Research and Writing**

(Student Option ;)  
62163 001 IND, In Person Term Based; Christopher Turoski ;  
1-2 cr.  
62164 002 IND, In Person Term Based; Francis Shen ; 1-2 cr.

**Leadership Education (LEAD)****1961V Personal Leadership in the  
University**

(A-F only; CIV,WI)  
68011 002 LEC, 13:00-14:15 TTh, Appleby Hall 226, In  
Person Term Based; David Hellstrom ; 3 cr.  
68012 001 LEC, 11:15-12:30 TTh, Kolthoff Hall 136, In  
Person Term Based; Colleen Clements ; 3 cr.

**1961W Personal Leadership in the  
University**

(A-F only; CIV,WI)  
64711 005 LEC, 09:45-11:00 TTh, Kolthoff Hall 132, In  
Person Term Based; Janna Krawczyk ; 3 cr.  
64712 011 LEC, 11:15-12:30 TTh, Smith Hall 121, In Person  
Term Based; Amanda Temple ; 3 cr.  
64715 013 LEC, 13:00-14:15 MW, Appleby Hall 204, In  
Person Term Based; Sonja Kufnec ; 3 cr.  
64716 010 LEC, 11:15-12:30 TTh, Kolthoff Hall 132, In  
Person Term Based; Janna Krawczyk ; 3 cr.  
64717 008 LEC, 11:15-12:30 MW, Appleby Hall 204, In  
Person Term Based; Anna Capeder ; 3 cr.  
64718 007 LEC, 11:15-12:30 MW, Appleby Hall 226, In  
Person Term Based; Evonne Bilotta-Burke ; 3 cr.  
64723 001 LEC, 08:15-09:30 MW, Appleby Hall 223, In  
Person Term Based; Lindsey Torkilsen ; 3 cr.  
64724 004 LEC, 09:45-11:00 MW, Twin Cities Remote,  
Completely Online; Isadora Collins ; 3 cr.  
64727 014 LEC, 13:00-14:15 MW, Twin Cities Remote,  
Completely Online; Karmen McQuitty ; 3 cr.  
64793 015 LEC, 13:00-14:15 TTh, Appleby Hall 204, In  
Person Term Based; Adrienne Eldridge ; 3 cr.  
64804 016 LEC, 13:00-14:15 TTh, Appleby Hall 102, In  
Person Term Based; Karmit Bulman ; 3 cr.  
64816 017 LEC, 14:30-15:45 MW, Appleby Hall 204, In  
Person Term Based; Evonne Bilotta-Burke ; 3 cr.  
64827 025 LEC, Completely Online; Jesse Brown ; 3 cr.  
64828 026 LEC, Completely Online; Jennifer Pollard ; 3 cr.  
64829 027 LEC, Completely Online; Brianne Nelson  
Schmidt ; 3 cr.  
64830 028 LEC, Completely Online; Crystal Harris ; 3 cr.  
67997 003 LEC, 09:45-11:00 MW, Kolthoff Hall 137, In  
Person Term Based; David Hellstrom ; 3 cr.  
68064 019 LEC, 14:30-15:45 TTh, Kolthoff Hall 132, In  
Person Term Based; Laura Wiesner ; 3 cr.  
68065 023 LEC, 10:00-12:30 F, Appleby Hall 204, In Person  
Term Based; Keelin Yenney ; 3 cr.

**3961 Leadership, You, and Your  
Community**

(A-F only ;)  
64710 004 LEC, 13:00-14:15 MW, Appleby Hall 303, In  
Person Term Based; Andrea Breen ; 3 cr.  
64722 005 LEC, 14:30-15:45 TTh, Folwell Hall 30, In Person  
Term Based; Jessica Chung ; 3 cr.  
64725 003 LEC, 11:15-12:30 MW, Appleby Hall 223, In  
Person Term Based; Margaret Harris ; 3 cr.  
64794 002 LEC, 09:45-11:00 MW, Appleby Hall 204, In  
Person Term Based; Andrea Breen ; 3 cr.  
64815 006 LEC, 17:30-20:00 T, Appleby Hall 204, In Person  
Term Based; Rebecca Bergner ; 3 cr.

**3971 Leadership Minor: Field Experience**

(A-F only ;)  
64721 002 FWK, 17:30-20:00 W, Appleby Hall 128, In  
Person Term Based; Rebecca Bergner ; 3 cr.  
64795 003 FWK, 10:00-12:30 F, Appleby Hall 226,  
10:00-12:30 F, Appleby Hall 226, 10:00-12:30 F, Appleby  
Hall 226, 10:00-12:30 F, Appleby Hall 226, 10:00-12:30  
F, Appleby Hall 226, 10:00-12:30 F, Appleby Hall 226,  
Partially Online; Melanie Buford ; 3 cr.

**4961W Leadership for Global Citizenship**

(A-F only; GP,WI)  
64714 001 LEC, 09:45-11:00 MW, Appleby Hall 102, In  
Person Term Based; Margaret Harris ; 3 cr.  
64796 004 LEC, 18:30-21:00 M, Appleby Hall 102,  
18:30-21:00 M, Appleby Hall 102, 18:30-21:00 M, Appleby  
Hall 102, 18:30-21:00 M, Appleby Hall 102, 18:30-21:00  
M, Appleby Hall 102, 18:30-21:00 M, Appleby Hall 102,  
Partially Online; Margaret Harris ; 3 cr.  
68066 002 LEC, 11:15-12:30 TTh, Appleby Hall 223, In  
Person Term Based; Emina Buzinkic ; 3 cr.

**4972 Directed Research, Leadership Minor**

(A-F only; Prereq: instr consent Contract URL: <https://goo.gl/forms/iw89wCSRPN30HBAz2>)  
64807 001 IND, Independent/Directed Study; Krista Soria ;  
1-4 cr.

**Learning and Academic Skills  
(LASK)****1001 Mastering Skills for College Success  
(Student Option ;)**

51217 001 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Nisma Elias ; 2 cr.  
51218 002 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Nisma Elias ; 2 cr.  
51219 003 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Andrew Fiegen ; 2 cr.  
51220 004 LEC, 10:10-12:05 M, Bruininks Hall 530B, In  
Person Term Based; Andrew Fiegen ; 2 cr.  
68473 005 LEC, 12:20-14:15 M, Bruininks Hall 123, In  
Person Term Based; Enet Mukurazita ; 2 cr.  
68474 006 LEC, 13:25-15:30 T, Ford Hall 155, In Person  
Term Based; Enet Mukurazita ; 2 cr.

**1101 Academic Refresher**

(S-N or Audit; Prereq: instr consent)  
51221 001 LEC, 10:10-11:00 M, Appleby Hall 103, In Person  
Term Based; Jenny Steiner ; 1 cr.

**1102 Academic Success**

(S-N only ;)  
51612 001 LEC, 13:25-14:15 M, Twin Cities Remote,  
Completely Online; Nisma Elias ; 2 cr.  
51630 002 LEC, 15:35-16:25 M, Twin Cities Remote,  
Completely Online; Alexandra Klapperich ; 2 cr.  
51631 003 LEC, 10:10-11:00 T, Twin Cities Remote,  
Completely Online; Julio Vega Cedeno ; 2 cr.  
52270 004 LEC, 13:25-14:15 T, Twin Cities Remote,  
Completely Online; Julio Vega Cedeno ; 2 cr.

**Linguistics (LING)****1705W World Englishes: The Linguistics of  
English-based varieties around the globe  
(Student Option; GP,WI,SOCS)**

68184 001 LEC, 13:00-14:15 TTh, Rapson Hall 58, In Person  
Term Based; Anna Lubowicz ; 4 cr.  
68185 002 DIS, 13:00-13:50 F, Rapson Hall 58, In Person  
Term Based; Anna Lubowicz ; 4 cr.

**1800 Topics in Linguistics**

(Student Option ;)  
68211 001 LEC, 14:30-15:45 MW, Kolthoff Hall 132, In  
Person Term Based; Samuel Akinbo ; 1-4 cr.

**3001 Introduction to Linguistics**

(Student Option; SOCS)  
53423 001 LEC, 11:15-12:05 MWF, Appleby Hall 103, In  
Person Term Based; Jean-Philippe Marcotte ; 4 cr.  
53424 002 DIS, 11:15-12:05 T, Peik Hall 375, In Person  
Term Based; 4 cr.  
53425 003 DIS, 11:15-12:05 Th, Peik Hall 375, In Person  
Term Based; 4 cr.  
54399 050 LEC, 18:10-19:00 Th, Appleby Hall 103,  
18:10-19:50 T, Appleby Hall 103, In Person Term Based;  
Ellen Lucast ; 4 cr.  
54400 051 DIS, 19:10-20:00 Th, Appleby Hall 103, In Person  
Term Based; 4 cr.

**3001H Honors: Introduction to Linguistics**

(A-F only; Prereq: Honors student or instr  
consentSOCS)  
54769 001 LEC, 09:45-11:00 MW, Wulling Hall 220, In  
Person Term Based; Jean-Philippe Marcotte ; 4 cr.  
54770 002 DIS, 09:45-10:35 F, Appleby Hall 223, In Person  
Term Based; Jean-Philippe Marcotte ; 4 cr.

**3052V Honors: Thesis**

(A-F only; WI)  
55371 001 DIS, 12:15-15:15 F, Appleby Hall 223, In Person  
Term Based; Meets With: 001 LING 8888W001 LING 8005;  
Jean-Philippe Marcotte ; 3 cr.

**3601 Historical Linguistics**

(Student Option; Prereq: 3001 or instr consent)  
53060 001 LEC, 16:00-17:15 TTh, Appleby Hall 11, In  
Person Term Based; Meets With: 001 LING 5601; John  
Harkness ; 3 cr.

**3900 Topics in Linguistics**

(Student Option ;)

68248 001 LEC, 11:15-12:30 MW, Carlson School of Mgmt  
1-136, In Person Term Based; Meets With: 001 LING 5900;  
Michael Kac ; 3 cr.

#### 4201 Syntax I

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consent)

54161 001 LEC, 09:45-11:00 TTh, Appleby Hall 223, In Person Term Based; Morgan Staley ; 3 cr.

#### 4302W Phonology I

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consentWI)

54162 001 LEC, 11:15-12:30 TTh, Appleby Hall 103, In Person Term Based; Daniel Haataja ; 3 cr.

#### 4901W Capstone Seminar in Linguistics

(S-N only; Prereq: Ling major, [jr or sr]WI)

53052 001 LEC, 12:15-15:15 F, Peik Hall 335, In Person Term Based; Brian Reese ; 3 cr.

#### 5106 Field Methods in Linguistics II

(Student Option; Prereq: [5105, grad major] or instr consent)

55023 001 FWK, 14:30-16:25 TTh, Peik Hall 225, In Person Term Based; Meets With: 001 LING 8106; Claire Halpert ; 4 cr.

#### 5202 Syntactic Theory II

(Student Option; Prereq: 5201 or instructor consent. LING 5201 is directed towards honors students and graduate students.)

54749 001 LEC, 09:45-11:00 TTh, Ford Hall 155, In Person Term Based; Hooi Ling Soh ; 3 cr.

#### 5206 Linguistic Pragmatics

(Student Option; Prereq: [4201 or 5201] or instr consent)

54617 001 DIS, 09:45-11:00 MW, Appleby Hall 223, In Person Term Based; Brian Reese ; 3 cr.

#### 5207 Advanced Semantics

(A-F only; Prerequisites: LING 5205 - Semantics I)

65877 001 LEC, 14:30-15:45 MW, Ford Hall 155, In Person Term Based; Diti Bhadra ; 3 cr.

#### 5462 Field Research in Spoken Language

(Student Option; Prereq: 3001 or 3001H or 5001 or instr consent)

55373 001 DIS, 14:30-15:45 TTh, Wulling Hall 220, In Person Term Based; Polly Sztatowski ; 3 cr.

#### 5601 Historical Linguistics

(Student Option; Prereq: 3001 or 3011H or 5001)

53702 001 LEC, 16:00-17:15 TTh, Appleby Hall 11, 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)

54163 001 LEC, 13:00-14:15 TTh, Tate Hall B20, In Person Term Based; Brian Reese ; 3 cr.

#### 5900 Topics in Linguistics

(Student Option; )

68212 001 LEC, 11:15-12:30 MW, Carlson School of Mgmt 1-136, In Person Term Based; Meets With: 001 LING 3900; Michael Kac ; 3 cr.

#### 5993 Directed Study

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

53051 001 IND, 00:00-00:00 , , In Person Term Based; Polly Sztatowski ; 1-3 cr.

53481 002 IND, 00:00-00:00 , , In Person Term Based; Hooi Ling Soh ; 1-3 cr.

53683 004 IND, 00:00-00:00 , , In Person Term Based; Brian Reese ; 1-3 cr.

53837 005 IND, 00:00-00:00 , , In Person Term Based; Claire Halpert ; 1-3 cr.

54672 006 IND, 00:00-00:00 , , In Person Term Based; Jean-Philippe Marcotte ; 1-3 cr.

65878 003 IND, In Person Term Based; Diti Bhadra ; 1-3 cr.

### MN Studies in Intl Devel Prog (MSID)

### MSID Program in Thailand (THAI)

### Madrid Learning Abroad Program (MADR)

### Management (MGMT)

#### 1001 Contemporary Management

(A-F only; Prereq: Carlson School fr or soph)

57834 001 LEC, 08:00-09:15 MW, Hanson Hall 1-111, In Person Term Based; Yelena Hydrie ; 3 cr.

57835 002 LEC, 13:00-14:15 MW, Hanson Hall 1-111, In Person Term Based; Elizabeth Campbell ; 3 cr.

57950 003 LEC, 14:30-15:45 MW, Hanson Hall 1-111, In Person Term Based; Elizabeth Campbell ; 3 cr.

#### 1005 Corporate Responsibility and Ethics

(A-F only; Prereq: Carlson School studentCIV)

57964 001 LEC, 09:45-11:00 MW, Hanson Hall 1-111, In Person Term Based; Russell Funk ; 3 cr.

57965 002 LEC, 11:15-12:30 MW, Hanson Hall 1-111, In Person Term Based; Russell Funk ; 3 cr.

57966 003 LEC, 13:00-14:15 MW, Hanson Hall 1-109, In Person Term Based; Russell Funk ; 3 cr.

57967 004 LEC, 14:30-15:45 MW, Hanson Hall 1-109, In Person Term Based; Alan Fine ; 3 cr.

57968 005 LEC, 16:00-17:15 MW, Hanson Hall 1-111, In Person Term Based; Alan Fine ; 3 cr.

57969 006 LEC, 08:15-09:30 TTh, Hanson Hall 1-111, In Person Term Based; Alan Fine ; 3 cr.

57970 007 LEC, 11:15-12:30 TTh, Hanson Hall 1-111, In Person Term Based; Rand Park ; 3 cr.

58093 008 LEC, 13:00-14:15 TTh, Hanson Hall 1-111, In Person Term Based; Rand Park ; 3 cr.

66062 009 LEC, 14:30-15:45 TTh, Hanson Hall 1-111, In Person Term Based; Rand Park ; 3 cr.

#### 1005H Corporate Responsibility and Ethics

(A-F only; Prereq: Honors studentCIV)

57997 001 LEC, 09:45-11:00 MW, Hanson Hall 1-109, In Person Term Based; Rand Park ; 3 cr.

#### 3001 Fundamentals of Management

(A-F or Audit; )

57720 002 LEC, 08:15-09:30 TTh, Hanson Hall 1-105, In Person Term Based; Jooyoun Shin ; 3 cr.

57755 070 LEC, Completely Online; Kelsey Baumann ; 3 cr.

57827 001 LEC, 11:15-12:30 MW, Hanson Hall 1-104, In Person Term Based; Alan Fine ; 3 cr.

57919 003 LEC, 14:30-15:45 MW, Hanson Hall 1-103, In Person Term Based; Usha Ramanathan ; 3 cr.

#### 3004 Business Strategy

(A-F only; Prereq: CSOM, soph or jr)

57844 001 LEC, 09:45-11:00 TTh, Hanson Hall 1-104, In Person Term Based; Jeffrey Kaufmann ; 3 cr.

57845 002 LEC, 08:15-09:30 TTh, Hanson Hall 1-102, In Person Term Based; Jeffrey Kaufmann ; 3 cr.

57846 003 LEC, 09:45-11:00 WF, Hanson Hall 1-108, In Person Term Based; Alex Wilson ; 3 cr.

57847 004 LEC, 08:15-09:30 MW, Hanson Hall 1-106, In Person Term Based; Alex Wilson ; 3 cr.

57971 005 LEC, 14:30-15:45 TTh, Hanson Hall 1-108, In Person Term Based; Jeffrey Kaufmann ; 3 cr.

66063 006 LEC, 14:30-15:45 MW, Hanson Hall 1-104, In Person Term Based; Alex Wilson ; 3 cr.

#### 3010 Introduction to Entrepreneurship

(A-F or Audit; )

57800 001 LEC, 10:10-11:50 TTh, Hanson Hall 1-105, In Person Term Based; Sandy Yu ; 4 cr.

57801 003 LEC, 14:30-16:10 TTh, Hanson Hall 1-105, In Person Term Based; Sandy Yu ; 4 cr.

57808 002 LEC, 12:20-14:00 TTh, Hanson Hall 1-105, In Person Term Based; Sandy Yu ; 4 cr.

#### 3033W Business Communication

(A-F or Audit; Prereq: First Year Writing, Carlson School junior or senior.WI)

57836 002 LEC, 09:45-11:00 MW, Carlson School of Mgmt 2-228, In Person Term Based; Adam Schrag ; 3 cr.

57837 003 LEC, 11:15-12:30 MW, Carlson School of Mgmt 2-228, In Person Term Based; Mary Rosa ; 3 cr.

57838 004 LEC, 13:00-14:15 MW, Carlson School of Mgmt 2-228, In Person Term Based; Adam Schrag ; 3 cr.

57839 005 LEC, 13:00-14:15 MW, Carlson School of Mgmt 1-136, In Person Term Based; Nat Bennett ; 3 cr.

57840 006 LEC, 14:30-15:45 MW, Carlson School of Mgmt 2-228, In Person Term Based; Mary Rosa ; 3 cr.

57841 007 LEC, 16:00-17:15 MW, Carlson School of Mgmt 2-228, In Person Term Based; Mary Rosa ; 3 cr.

57842 008 LEC, 09:45-11:00 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Nat Bennett ; 3 cr.

57843 020 LEC, 17:45-20:15 T, Carlson School of Mgmt

2-228, In Person Term Based; Nat Bennett ; 3 cr.

57879 009 LEC, 11:15-12:30 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Adam Schrag ; 3 cr.

57914 010 LEC, 13:00-14:15 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Mary Rosa ; 3 cr.

57989 001 LEC, 08:15-09:30 MW, Carlson School of Mgmt 2-228, In Person Term Based; Adam Schrag ; 3 cr.

57995 011 LEC, 14:30-15:45 TTh, Carlson School of Mgmt 2-228, In Person Term Based; Mary Rosa ; 3 cr.

66064 012 LEC, 09:45-11:00 MW, Carlson School of Mgmt 1-136, In Person Term Based; Nat Bennett ; 3 cr.

#### 3039 Intercultural Business Communication

(A-F only; GP)

57910 001 LEC, 09:45-11:00 TTh, Carlson School of Mgmt L-114, In Person Term Based; Adam Schrag ; 3 cr.

#### 3040 Understanding the International Environment of Firms: International Business

(A-F or Audit; Prereq: 1001 or 1001H or 3001)

57744 001 LEC, 14:00-17:20 T, Carlson School of Mgmt 2-213, In Person Term Based; Gurneeta Singh ; 2 cr.

#### 3061 Leadership in Practice: Everyday Moments of Leadership

(A-F only; )

68396 001 LEC, 13:00-16:20 T, Carlson School of Mgmt L-114, In Person Term Based; Theresa Glomb ; 2 cr.

#### 3090 Topics in Leadership

(Student Option; )

68996 001 LEC, 13:00-16:20 T, Hubert H. Humphrey School 60, In Person Term Based; Ameer Mcdonald ; 2-4 cr.

#### 4000 Social Venturing in Action

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

57884 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 2-219, In Person Term Based; Matthew Ladhoff ; 4 cr.

#### 4008 Entrepreneurial Management

(A-F only; Prereq: concurrent registration is required (or allowed) in [3010 or IBUS 3010])

57771 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-215, In Person Term Based; John Sturgess ; 4 cr.

#### 4031 Industry Analysis in a Global Context

(A-F only; Prereq: Mgmt 3004 or 3001)

58252 001 LEC, 11:50-13:30 TTh, Anderson Hall 270, In Person Term Based; Jeremy Watson ; 2 cr.

#### 4032 Corporate Strategy

(A-F only; Prereq: Mgmt 3004 or 3001)

66065 001 LEC, 15:45-17:25 MW, Hanson Hall 1-105, In Person Term Based; Aseem Kaul ; 2 cr.

#### 4033 Strategy Implementation

(A-F only; Prereq: Mgmt 3004 or 3001.)

66066 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-143, In Person Term Based; Jeffrey Kaufmann ; 2 cr.

#### 4035 Mergers & Acquisitions Strategy

(A-F only; Prereq: Mgmt 4032)

66067 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-149, In Person Term Based; Aseem Kaul ; 2 cr.

#### 4050 Managing Innovation and Change In Action

(A-F or Audit; Prereq: Mgmt 1001, 3001 or 3010)

57799 001 LEC, 14:00-17:20 W, Hubert H. Humphrey School 50B, In Person Term Based; Gurneeta Singh ; 2 cr.

#### 4170W New Business Feasibility and Planning

(A-F only; Prereq: 3010WI)

57880 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-127, In Person Term Based; Alan Fine ; 4 cr.

#### 4172 Entrepreneurship in Action II

(A-F only; Prereq: 4171)

57881 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-233, In Person Term Based; John Stavig ; 4 cr.

#### 4500 Senior Seminar in International Business

(A-F only; Prereq: CSOM sr, completed semester abroad, IB major or minor)

57998 001 LEC, 15:45-19:00 Th, Carlson School of Mgmt L-122, In Person Term Based; Sveltiana Madzar ; 2 cr.

**5102 StartUp: Customer Development and Testing**

(A-F only;)  
58104 001 FWK, 15:45-17:25 T, Carlson School of Mgmt 2-233, In Person Term Based; Tobin Nord ; 2 cr.

**Management of Technology (MOT)****4001 Leadership, Professionalism and Business Basics for Engineers**

(A-F only;)  
61491 001 LEC, 15:35-17:30 M, Bruininks Hall 420A, In Person Term Based; Mark Sanders ; 2 cr.

**5002 Creating Technological Innovation (A-F or Audit; Prereq: Degree seeking or non-degree graduate students.)**

61072 001 LEC, 15:30-17:30 W, Bruininks Hall 420A, 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.)  
69065 001 LEC, 17:15-18:05 W, , In Person Term Based; Steve Webster ; 1 cr.

**5991 MOT Independent Study**

(S-N or Audit; Prereq: MOT grad student)  
61891 001 IND, In Person Term Based; Steve Webster ; 1-3 cr.

**Manufacturing Operations Mgmt (MM)****3001W Manufacturing in the Global Economy**

(A-F or Audit; Prerequisites: None.WI)  
64682 301 LEC, Completely Online; William King ; 3 cr.

**3305 Advanced 3D Printing for Innovative Business Practices**

(A-F or Audit; Prerequisites: None)  
64579 001 LEC, 18:00-20:45 T, Keller Hall 2-260, In Person Term Based; Mick Kuehn ; 3 cr.

**4039 The Science of Sourcing: Partnerships for Success**

(A-F or Audit; Prerequisite: A course such as MM 3001W, or relevant manufacturing experience.)  
69183 101 LEC, 18:00-20:45 M, Twin Cities Remote, Completely Online; Jack Sandahl ; 3 cr.

**4193 Capstone Directed Study**

(A-F or Audit; Prereq: MM major or minor or certificate, departmental approval)  
64557 401 LEC, Independent/Directed Study; 3 cr.

**4596 Internship**

(A-F or Audit; Prereq: [MM major or minor or certificate or instr consent], dept consent)  
66787 401 FWK, Independent/Directed Study; 1 cr.

**Marketing (MKTG)****3001 Principles of Marketing**

(A-F or Audit; Prereq: ECON 1101)  
57717 001 LEC, 09:45-11:00 MW, Hanson Hall 1-102, In Person Term Based; Allison Murn ; 3 cr.  
57718 002 LEC, 08:15-09:30 MW, Hanson Hall 1-104, In Person Term Based; Corey Nelson ; 3 cr.  
57719 003 LEC, 11:15-12:30 TTh, Hanson Hall 1-106, In Person Term Based; Corey Nelson ; 3 cr.  
57772 070 LEC, Completely Online; Corey Nelson ; 3 cr.  
57803 004 LEC, 13:00-14:15 TTh, Hanson Hall 1-104, In Person Term Based; Corey Nelson ; 3 cr.  
57804 006 LEC, 14:30-15:45 TTh, Hanson Hall 1-102, In Person Term Based; Corey Nelson ; 3 cr.  
57833 005 LEC, 14:30-15:45 MW, Hanson Hall 1-102, In Person Term Based; 3 cr.  
57901 007 LEC, 16:00-17:15 TTh, Hanson Hall 1-102, In Person Term Based; Allison Murn, Hankyul Bae, Xianyu Hao, Seul Min Yang, Han Young Jung ; 3 cr.

66073 008 LEC, 14:30-15:45 MW, Carlson School of Mgmt L-114, In Person Term Based; Allison Murn, Hankyul Bae, Xianyu Hao, Seul Min Yang, Han Young Jung ; 3 cr.

**3005 Introduction to Applying Analytical Tools for Solving Business Problems (A-F only; Prereq: SCO 2550 or equivalent statistics course)**

58179 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-149, In Person Term Based; Xuefeng Liu ; 2 cr.  
58210 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-142, In Person Term Based; Xuefeng Liu ; 2 cr.  
58271 003 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-142, In Person Term Based; Yi Zhu ; 2 cr.

**3010 Marketing Research**

(A-F or Audit; Prereq: 3001 and SCO 2550 or equiv statistics course)  
57729 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Xuefeng Liu ; 4 cr.  
57730 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Xuefeng Liu ; 4 cr.  
57943 003 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-142, In Person Term Based; Wendy Lutter ; 4 cr.

**3040 Buyer Behavior**

(A-F or Audit; Prereq: 3001)  
57731 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Alison Xu ; 4 cr.  
58020 002 LEC, 13:45-15:25 MW, Hanson Hall 1-105, In Person Term Based; Corey Nelson ; 4 cr.

**4030 Sales Management**

(A-F or Audit; Prereq: MKTG 3040)  
57809 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-213, In Person Term Based; Wayne Mueller ; 4 cr.

**4050 Advertising and Promotion**

(A-F or Audit; Prereq: MKTG 3010 and MKTG 3040 or instructor approval)  
57756 001 LEC, 13:45-15:25 TTh, Hanson Hall 1-109, In Person Term Based; Meredith Speier ; 4 cr.

**4060 Marketing Channels**

(A-F or Audit; Prereq: MKTG 3010 and MKTG 3040 or instructor approval )  
57883 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-147, In Person Term Based; Jay Lipe ; 4 cr.

**4074 Data-Driven Marketing**

(A-F only; Prereq: Mktg 3010)  
58105 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-149, In Person Term Based; Linli Xu ; 4 cr.  
58155 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Linli Xu ; 4 cr.  
66074 003 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Linli Xu ; 4 cr.

**4076 Digital Marketing**

(A-F only; Prereq: Mktg 3010)  
58156 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-135, In Person Term Based; Allison Murn ; 2 cr.  
66075 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-142, In Person Term Based; Allison Murn ; 2 cr.

**4080W Marketing Strategy**

(A-F or Audit; Prereq: 3001, 3010, 3040, 12 cr in marketing, srWI)  
58046 001 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-127, In Person Term Based; 4 cr.  
58047 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-127, In Person Term Based; Irene Nahm ; 4 cr.  
58048 003 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-132, In Person Term Based; Michelle Champlin Bergner ; 4 cr.  
58049 004 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-127, In Person Term Based; Irene Nahm ; 4 cr.

**4082W Brand Management**

(A-F only; Prereq: MKTG 3010 and MKTG 3040 WI)  
58055 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt L-118, In Person Term Based; Jay Lipe ; 4 cr.

**Martin Luther King, Jr Program (MLK)****1002 CLA First-Year Experience II**

(S-N only;)  
66503 001 LEC, 14:30-15:45 Th, Vincent Hall 1, In Person Term Based; Evan Johnson ; 1 cr.  
66504 002 LEC, 14:30-15:45 Th, Ford Hall B15, In Person Term Based; Charissa Blue ; 1 cr.

66505 003 LEC, 14:30-15:45 Th, Appleby Hall 11, In Person Term Based; Marisela Rodriguez-Gutierrez ; 1 cr.  
66506 004 LEC, 14:30-15:45 Th, Vincent Hall 2, In Person Term Based; 1 cr.  
66507 005 LEC, 14:30-15:45 Th, Mechanical Engineering 221, In Person Term Based; 1 cr.  
66508 006 LEC, 14:30-15:45 Th, Bruininks Hall 512B, In Person Term Based; 1 cr.

**Master of Business Admin (MBA)****Master of Business Taxation (MBT)****5200 Tax Accounting Methods I**

(A-F or Audit; Prereq: ACCT 5135, MBT student)  
58116 050 LEC, 09:00-17:00 F, Carlson School of Mgmt 1-114, In Person Term Based; Tammy Naples ; 2 cr.  
58118 070 LEC, Completely Online; Tammy Naples ; 2 cr.

**5201 Tax Accounting Methods II**

(A-F or Audit; Prereq: MBT 5200)  
58124 070 LEC, Completely Online; Tammy Naples ; 2 cr.  
58125 050 LEC, 09:00-17:00 F, Carlson School of Mgmt 1-114, In Person Term Based; Tammy Naples ; 2 cr.

**5226 Negotiation Techniques in Taxation**

(A-F or Audit;)  
58239 070 LEC, Completely Online; Craig Miller ; 2 cr.

**5347 Tax Technology and Analytics Fundamentals**

(A-F or Audit; Prereq: ACCT 5135)  
58045 070 LEC, Completely Online; Todd Dannenfelter ; 2 cr.

**5348 Advanced ASC 740 Concepts**

(A-F or Audit; Prereq: 5346)  
58208 070 LEC, Completely Online; Nicholas Frank ; 2 cr.

**5380 Tax Aspects of International Business I**

(A-F or Audit; Prereq: 5230)  
58141 070 LEC, Completely Online; Roger Conlon ; 2 cr.

**5381 Tax Aspects of International Business II**

(A-F or Audit; Prereq: MBT 5380)  
58209 070 LEC, Completely Online; Roger Conlon ; 2 cr.

**5420 Current Topics in Taxation**

(A-F or Audit; Prereq: ACCT 5135, MBT student)  
57806 200 IND, 00:00-00:00 , , In Person Term Based; Paul Gutterman ; 1-4 cr.  
58142 201 IND, In Person Term Based; Paul Gutterman ; 1-4 cr.  
66057 202 IND, In Person Term Based; Paul Gutterman ; 1-4 cr.

**Master of Development Practice (MDP)****5002 Program Development Workshop**

(A-F only; Prereq: MDP grad student or instr consent)  
58279 001 DIS, 14:30-15:20 W, Ruttan Hall B30, 13:30-16:00 M, Ruttan Hall B30, In Person Term Based; 3 cr.

**5005 Qualitative Methods for Development Practice**

(A-F only;)  
58281 001 LAB, 12:45-14:00 TTh, Hubert H. Humphrey School 35, In Person Term Based; Vanessa Voller ; 3 cr.

**5200 Capstone Workshop in Development Practice**

(A-F or Audit; Prereq: MDP grad student or instr consent)  
58280 001 LEC, 16:30-19:30 T, Amundson Hall 124, In Person Term Based; Meets With: 030 PA 8081; David Wilsey ; 3 cr.  
68964 002 LEC, 12:05-14:50 F, Hubert H. Humphrey School 50A, In Person Term Based; Meets With: 008 PA 8081; Mary Curtin ; 3 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)  
59423 001 LEC, 10:10-11:00 MWF, Fraser Hall 101, In Person Term Based; Bharat Jalan ; 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)  
60353 001 LAB, 14:30-17:30 M, Amundson Hall B16, In Person Term Based; Kimberly Kosto ; 1 cr.  
60354 002 LAB, 14:30-17:30 T, Amundson Hall B16, In Person Term Based; Jeffrey Schott ; 1 cr.  
60355 003 LAB, 14:30-17:30 Th, Amundson Hall B16, In Person Term Based; Jeffrey Schott ; 1 cr.  
60356 004 LAB, 14:30-17:30 F, Amundson Hall B16, In Person Term Based; Jeffrey Schott ; 1 cr.

**3002 Mass Transport and Kinetics**

(A-F or Audit; Prereq: 3001, 3141, [MATH 2373 or equiv], upper div Mat)  
59428 001 LEC, 14:30-15:20 MWF, Akerman Hall 319, In Person Term Based; Russell Holmes ; 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)  
59671 001 LEC, 14:30-15:20 MWF, Amundson Hall B75, In Person Term Based; Turan Birol ; 3 cr.  
59672 003 DIS, 10:10-11:00 T, Rapson Hall 100, In Person Term Based; Turan Birol ; 3 cr.

**3141 Numerical Methods for Materials Science**

(A-F only; Prereq: Math 2374 or equivalent, MatS 3011 (or F) Coreqs: Math 2373 or equivalent, Chem 4502/ Phys 2303)  
61229 001 LEC, 09:05-09:55 MWF, Akerman Hall 319, In Person Term Based; Andre Mkhoyan ; 3 cr.  
61230 002 DIS, 14:30-15:20 T, Amundson Hall 158, In Person Term Based; Andre Mkhoyan ; 3 cr.  
61231 003 DIS, 15:35-16:25 T, Akerman Hall 215, In Person Term Based; Andre Mkhoyan ; 3 cr.

**3851W Materials Properties Lab**

(A-F or Audit; Prereq: [3801, 3013, MatS upper div] or dept consentWI)  
59668 001 LEC, 15:35-16:25 MW, Rapson Hall 45, In Person Term Based; Michael Manno ; 4 cr.  
59669 002 LAB, 08:00-11:00 T, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.  
61004 004 LAB, 11:15-14:15 Th, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.  
61209 005 LAB, 11:15-14:15 T, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.

**4214 Polymers**

(A-F or Audit; Prereq: [3011, [3001 or CHEN 3101], [upper div MatS or ChEn]] or instr consent)  
60648 001 LEC, 11:15-12:05 MWF, Smith Hall 100, In Person Term Based; Meets With: 001 CHEM 4214001 CHEM 4214; Frank Bates ; 3 cr.

**4223W Polymer Laboratory**

(Student Option; WI)  
59795 001 LEC, 08:00-08:50 M, Smith Hall 331, In Person Term Based; Meets With: 001 CHEN 4223W001 CHEM 4223W; Marc Hillmyer ; 2 cr.  
59845 002 LAB, 08:00-11:50 T, Smith Hall 249A, In Person Term Based; Meets With: 002 CHEM 4223W002 CHEM 4223W; Marc Hillmyer ; 2 cr.  
59846 003 LAB, In Person Term Based; Meets With: 003 CHEM 4223W003 CHEM 4223W; 2 cr.  
68773 004 LAB, 08:00-11:50 Th, Smith Hall 249A, In Person Term Based; Marc Hillmyer ; 2 cr.

**4301W Materials Processing**

(A-F only; Prereq: 4212, [4214 or concurrent registration is required (or allowed) in 4214] Upper Div MatSWI)  
59435 001 LEC, 13:25-14:15 MWF, Akerman Hall 319, In Person Term Based; David Poerschke ; 4 cr.  
59437 003 LAB, 14:30-17:30 T, Amundson Hall 47, In Person Term Based; David Poerschke ; 4 cr.  
59743 004 LAB, 14:30-17:30 W, Amundson Hall 47, In Person Term Based; David Poerschke ; 4 cr.  
60789 005 LAB, 13:25-16:25 Th, Lab TBA, In Person Term Based; David Poerschke ; 4 cr.

**4400 Senior Design Project**

(A-F only; Prereq: Sr MatS major)

59438 001 LEC, 10:10-11:00 T, Keller Hall 3-230, 10:10-11:00 MWF, Akerman Hall 209, In Person Term Based; Vivian Ferry ; 3 cr.

**4591 Independent Study in Materials Science**

(Student Option No Audit; Prereq: Upper div mat sci)  
59439 001 IND, 00:00-00:00 , , In Person Term Based; David Flannigan ; 1-3 cr.

**4593 Directed Study in Materials Science**

(A-F only; Prereq: upper div MatS)  
59440 001 IND, 00:00-00:00 , , In Person Term Based; David Flannigan ; 1-4 cr.

**4594 Directed Research in Materials Science**

(Student Option No Audit; Prereq: Upper div mat sci)  
59441 001 IND, 00:00-00:00 , , In Person Term Based; David Flannigan ; 1-3 cr.

**5517 Microscopy of Materials**

(A-F or Audit; )  
65759 001 LEC, 14:30-15:45 MW, Amundson Hall 240, In Person Term Based; David Flannigan ; 3 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)  
59058 010 LEC, 11:15-12:05 MWF, Civil Engineering Bldg 212, In Person Term Based; Mikal Nelson ; 3 cr.  
59060 012 DIS, 11:15-12:05 Th, Vincent Hall 206, In Person Term Based; Mikal Nelson ; 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 or CI 0832]MATH)  
59223 001 LEC, 18:00-19:30 MW, Bruininks Hall 131A, In Person Term Based; Riley O'Neill ; 3 cr.  
59742 020 LEC, 13:25-14:15 MWF, Bruininks Hall 330, Partially Online; Scott Flancher ; 3 cr.  
60776 010 LEC, 11:15-12:05 MWF, Bruininks Hall 330, Partially Online; Scott Flancher ; 3 cr.  
65746 003 LEC, Completely Online; Jason Loewen ; 3 cr.

**1038 College Algebra and Probability Submodule**

(A-F or Audit; Prereq: 1051 or 1151 or 1155)  
60777 001 LEC, In Person Term Based; 1 cr.

**1040 Topics in Mathematics**

(S-N only; )  
69040 017 LEC, 12:20-13:10 Th, Vincent Hall 313, In Person Term Based; 1 cr.  
69041 035 LEC, 11:15-12:05 Th, Vincent Hall 301, In Person Term Based; 1 cr.  
69042 051 LEC, 11:15-12:05 Th, Vincent Hall 313, In Person Term Based; 1 cr.  
69043 053 LEC, 13:25-14:15 Th, Vincent Hall 313, In Person Term Based; 1 cr.  
69044 054 LEC, 15:35-16:25 Th, Vincent Hall 313, In Person Term Based; 1 cr.  
69140 021 LEC, 15:35-16:25 W, Vincent Hall 207, In Person Term Based; 1 cr.

**1042 Mathematics of Design**

(Student Option; Prereq: Satisfactory score on placement test or grade of at least C- in [1031 or 1051]MATH)  
67971 001 LEC, Completely Online; Mark Kayser ; 4 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 or CI 0832]MATH)  
59741 010 LEC, 12:20-13:10 MW, Bruininks Hall 330, Partially Online; Delia Samuel ; 3 cr.  
65747 003 LEC, Completely Online; Craig Corsi ; 3 cr.  
66828 011 DIS, 12:20-13:10 F, Tate Hall 101, In Person Term Based; 3 cr.

**1142 Short Calculus**

(Student Option; Prereq: Satisfactory score on placement test or grade of at least C- in [1031 or 1051]MATH)  
59061 001 LEC, 18:00-20:05 MW, Ford Hall 127, In Person Term Based; Judith Franklin ; 4 cr.  
59062 010 LEC, 08:30-09:20 MWF, Ruttan Hall 143, In Person Term Based; Robert Hank ; 4 cr.

59063 011 DIS, 08:30-09:20 TTh, Ruttan Hall B35, In Person Term Based; Ali Khalili ; 4 cr.  
59064 020 LEC, 14:30-15:20 MWF, Vincent Hall 16, In Person Term Based; Robert Hank ; 4 cr.  
59065 021 DIS, 14:30-15:20 TTh, Akerman Hall 317, In Person Term Based; Guodong Xi ; 4 cr.  
59066 022 DIS, 14:30-15:20 TTh, Tate Hall B85, In Person Term Based; Moriah Elkin ; 4 cr.  
59067 023 DIS, 15:35-16:25 TTh, Akerman Hall 211, In Person Term Based; Guodong Xi ; 4 cr.  
59068 024 DIS, 15:35-16:25 TTh, Ford Hall 151, In Person Term Based; Moriah Elkin ; 4 cr.  
59504 002 LEC, 18:00-20:05 TTh, Tate Hall B85, In Person Term Based; Judith Franklin ; 4 cr.  
65748 003 LEC, Completely Online; Kayla Wright ; 4 cr.

**1151 Precalculus II**

(Student Option; Prereq: Satisfactory score on placement exam or grade of at least C- in [1031 or 1051]MATH)  
59490 010 LEC, 09:05-09:55 MW, Bruininks Hall 412, Partially Online; Megan McPeak ; 3 cr.  
59491 020 LEC, 11:15-12:05 MW, Bruininks Hall 412, Partially Online; Vern Nelson ; 3 cr.  
66850 011 DIS, 09:05-09:55 F, Vincent Hall 16, In Person Term Based; 3 cr.  
66851 021 DIS, 11:15-12:05 F, Tate Hall 101, In Person Term Based; 3 cr.  
69463 004 LEC, Completely Online; Anh Hoang Trong Nam ; 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)  
59069 001 LEC, 18:00-20:05 MW, Tate Hall B85, In Person Term Based; Emily Tibor ; 4 cr.  
59070 002 LEC, 18:00-20:05 TTh, Tate Hall B55, In Person Term Based; David Demark ; 4 cr.  
59071 010 LEC, 08:00-08:50 MWF, Tate Hall 101, In Person Term Based; Devadatta Ganesh Hegde ; 4 cr.  
59072 011 DIS, 08:00-08:50 TTh, Vincent Hall 2, In Person Term Based; Micki Bui ; 4 cr.  
59073 012 DIS, 08:00-08:50 TTh, Vincent Hall 1, In Person Term Based; Kodjo Houssou ; 4 cr.  
59074 013 DIS, 09:05-09:55 TTh, Vincent Hall 20, In Person Term Based; Micki Bui ; 4 cr.  
59075 014 DIS, 09:05-09:55 TTh, Ford Hall 110, In Person Term Based; Kodjo Houssou ; 4 cr.  
59076 030 LEC, 11:15-12:05 MWF, Fraser Hall 101, In Person Term Based; McCleary Philbin ; 4 cr.  
59077 031 DIS, 11:15-12:05 TTh, Amundson Hall 162, In Person Term Based; Dorian Smith ; 4 cr.  
59078 032 DIS, 11:15-12:05 TTh, Peik Hall 335, In Person Term Based; Irene Noharinaivo ; 4 cr.  
59079 033 DIS, 11:15-12:05 TTh, Akerman Hall 225, In Person Term Based; Anastasia Nathanson ; 4 cr.  
59080 034 DIS, 12:20-13:10 TTh, Peik Hall 335, In Person Term Based; Irene Noharinaivo ; 4 cr.  
59081 040 LEC, 13:25-14:15 MWF, Fraser Hall 102, In Person Term Based; John O'Brien ; 4 cr.  
59082 041 DIS, 13:25-14:15 TTh, Peik Hall 375, In Person Term Based; 4 cr.  
59083 042 DIS, 13:25-14:15 TTh, Ford Hall 115, In Person Term Based; 4 cr.  
59084 043 DIS, 13:25-14:15 TTh, Amundson Hall 156, In Person Term Based; Alexis Dasher ; 4 cr.  
59085 044 DIS, 14:30-15:20 TTh, Appleby Hall 128, In Person Term Based; Alexis Dasher ; 4 cr.  
60296 035 DIS, 12:20-13:10 TTh, Keller Hall 3-115, In Person Term Based; Anastasia Nathanson ; 4 cr.  
60659 036 DIS, 12:20-13:10 TTh, Amundson Hall 156, In Person Term Based; Dorian Smith ; 4 cr.  
60778 045 DIS, 14:30-15:20 TTh, Ford Hall B53, In Person Term Based; 4 cr.  
60930 050 LEC, 15:35-16:25 MWF, Tate Hall 105, In Person Term Based; Wei Wang ; 4 cr.  
60931 051 DIS, 15:35-16:25 TTh, Tate Hall B45, In Person Term Based; Orges Ormanidhi ; 4 cr.  
60932 052 DIS, 15:35-16:25 TTh, Vincent Hall 311, In Person Term Based; 4 cr.  
60933 053 DIS, 16:40-17:30 TTh, Tate Hall B55, In Person Term Based; Orges Ormanidhi ; 4 cr.  
60934 054 DIS, 16:40-17:30 TTh, Vincent Hall 209, In Person Term Based; Cristian Camilo Chica Castano ; 4 cr.  
65750 003 LEC, Completely Online; Angelina Schenck ; 4 cr.

**1272 Calculus II**

(Student Option; Prereq: [1271 or equiv] with grade of at least C-)  
59086 001 LEC, 18:00-20:05 MW, Vincent Hall 211, In Person Term Based; Lilly Webster ; 4 cr.  
59087 010 LEC, 09:05-09:55 MWF, Fraser Hall 101, In Person Term Based; Maria Sanchez Muniz ; 4 cr.  
59088 011 DIS, 09:05-09:55 TTh, Amundson Hall 162, In Person Term Based; Anneke Von Seeger ; 4 cr.

59089 012 DIS, 09:05-09:55 TTh, Tate Hall B85, In Person Term Based; Tori Braun ; 4 cr.  
 59090 013 DIS, 09:05-09:55 TTh, Vincent Hall 6, In Person Term Based; Christine Brasic ; 4 cr.  
 59091 014 DIS, 10:10-11:00 TTh, Ford Hall 110, In Person Term Based; Christine Brasic ; 4 cr.  
 59092 030 LEC, 12:20-13:10 MWF, Bruininks Hall 220, In Person Term Based; Thomas Sundquist ; 4 cr.  
 59093 031 DIS, 12:20-13:10 TTh, Tate Hall B85, In Person Term Based; Shengzhen Ning ; 4 cr.  
 59094 032 DIS, 12:20-13:10 TTh, Vincent Hall 6, In Person Term Based; Sarbartha Bhattacharya ; 4 cr.  
 59095 033 DIS, 12:20-13:10 TTh, Vincent Hall 211, In Person Term Based; Liam Keenan ; 4 cr.  
 59096 034 DIS, 13:25-14:15 TTh, Akerman Hall 317, In Person Term Based; Shengzhen Ning ; 4 cr.  
 59097 040 LEC, 15:35-16:25 MWF, Vincent Hall 16, In Person Term Based; Mahrud Sayrafi ; 4 cr.  
 59098 041 DIS, 15:35-16:25 TTh, Amundson Hall 162, In Person Term Based; Devraj Duggal ; 4 cr.  
 59099 042 DIS, 15:35-16:25 TTh, Tate Hall B85, In Person Term Based; Shuo Zhang ; 4 cr.  
 59100 043 DIS, 16:40-17:30 TTh, Tate Hall B45, In Person Term Based; Shuo Zhang ; 4 cr.  
 60240 015 DIS, 10:10-11:00 TTh, Amundson Hall 162, In Person Term Based; Anneke Von Seeger ; 4 cr.  
 60241 016 DIS, 10:10-11:00 TTh, Amundson Hall 158, In Person Term Based; Tori Braun ; 4 cr.  
 60297 035 DIS, 13:25-14:15 TTh, Amundson Hall 162, In Person Term Based; Sarbartha Bhattacharya ; 4 cr.  
 60779 036 DIS, 13:25-14:15 TTh, Amundson Hall 158, In Person Term Based; Liam Keenan ; 4 cr.  
 65751 003 LEC, Completely Online; Michelle Mastrianni ; 4 cr.  
 69656 004 LEC, Completely Online; Jonathan Roth ; 4 cr.

### 1372 CSE Calculus II

**(Student Option; Prereq: Grade of at least C- in [1371 or equiv], CSE or pre-Bioproduct/Biosys Engr)**  
 59278 020 LEC, 09:05-09:55 MW, Vincent Hall 16, In Person Term Based; Eoin O'Hara ; 4 cr.  
 59279 022 DIS, 10:10-12:05 Th, Appleby Hall 319, 10:10-11:00 T, Mechanical Engineering 102, In Person Term Based; Bo Zhu ; 4 cr.  
 59280 023 DIS, 10:10-12:05 Th, Amundson Hall 124, 11:15-12:05 T, Mechanical Engineering 25, In Person Term Based; Tomas Banuelos ; 4 cr.  
 59281 024 DIS, 12:20-14:15 Th, Amundson Hall 120, 12:20-13:10 T, Folwell Hall 8, In Person Term Based; Bo Zhu ; 4 cr.  
 59282 030 LEC, 13:25-14:15 MW, Fraser Hall 101, In Person Term Based; Jennie Morgan ; 4 cr.  
 59283 031 DIS, 10:10-12:05 Th, Appleby Hall 303, 10:10-11:00 T, Akerman Hall 317, In Person Term Based; Megan McPeak ; 4 cr.  
 59284 032 DIS, 10:10-12:05 Th, Appleby Hall 3, 11:15-12:05 T, Ford Hall 151, In Person Term Based; Marcella Manivel ; 4 cr.  
 59285 033 DIS, 12:20-14:15 Th, Appleby Hall 303, 12:20-13:10 T, Peik Hall 375, In Person Term Based; Megan McPeak ; 4 cr.  
 59286 034 DIS, 12:20-14:15 Th, Armory Building 116, 13:25-14:15 T, Vincent Hall 20, In Person Term Based; Mikal Nelson ; 4 cr.  
 59287 040 LEC, 14:30-15:20 MW, Fraser Hall 101, In Person Term Based; Jennie Morgan ; 4 cr.  
 59288 042 DIS, 10:10-12:05 Th, Bruininks Hall 131A, 10:10-11:00 T, Akerman Hall 313, In Person Term Based; Zhaolin Li ; 4 cr.  
 59289 043 DIS, 12:20-14:15 Th, Nicholson Hall 115, 12:20-13:10 T, Akerman Hall 317, In Person Term Based; Zhaolin Li ; 4 cr.  
 59711 044 DIS, 12:20-14:15 Th, Mechanical Engineering 25, 13:25-14:15 T, Vincent Hall 2, In Person Term Based; Tara Gomes ; 4 cr.  
 59799 025 DIS, 14:30-16:25 Th, Appleby Hall 303, 14:30-15:20 T, Vincent Hall 2, In Person Term Based; Tomas Banuelos ; 4 cr.

59800 035 DIS, 14:30-16:25 Th, Appleby Hall 3, 15:35-16:25 T, Akerman Hall 313, In Person Term Based; Mikal Nelson ; 4 cr.  
 59801 045 DIS, 14:30-16:25 Th, Ford Hall 115, 14:30-15:20 T, Vincent Hall 1, In Person Term Based; Tara Gomes ; 4 cr.

### 1572H Honors Calculus II

**(A-F only; Prereq: 1571H, honors student, permission of University Honors Program)**

59298 010 LEC, 10:10-11:00 MWF, Vincent Hall 209, In Person Term Based; Anar Akhmedov ; 4 cr.  
 59299 011 DIS, 10:10-11:00 TTh, Vincent Hall 2, In Person Term Based; Kaelyn Willingham ; 4 cr.

### 2142 Elementary Linear Algebra

**(Student Option; Prerequisites: MATH 1272 or equivalent)**

65752 010 LEC, 11:15-12:05 MWF, Burton Hall 120, In Person Term Based; Greg Anderson ; 4 cr.  
 65753 011 DIS, 10:10-11:00 TTh, Amundson Hall 156, In Person Term Based; Tobias Ramaswamy ; 4 cr.  
 65754 012 DIS, 11:15-12:05 TTh, Amundson Hall 158, In Person Term Based; Tobias Ramaswamy ; 4 cr.

### 2241 Mathematical Modeling of Biological Systems

**(Student Option; Prereq: [1241 or 1271 or 1371] w/ grade of at least C-)**

61226 001 DIS, 11:15-12:30 MW, Bruininks Hall 420B, In Person Term Based; Duane Nykamp ; 3 cr.

### 2243 Linear Algebra and Differential Equations

**(Student Option; Prereq: [1272 or 1282 or 1372 or 1572] w/grade of at least C-)**

59102 001 LEC, 18:00-20:05 MW, Vincent Hall 113, In Person Term Based; Emily Gullerud ; 4 cr.  
 59103 010 LEC, 12:20-13:10 MWF, Amundson Hall B75, In Person Term Based; Linhan Li ; 4 cr.  
 59104 011 DIS, 11:15-12:05 TTh, Kolthoff Hall 139, In Person Term Based; David Luo ; 4 cr.  
 59105 013 DIS, 11:15-12:05 TTh, Vincent Hall 6, In Person Term Based; Shengkai Mao ; 4 cr.  
 59106 014 DIS, 12:20-13:10 TTh, Vincent Hall 113, In Person Term Based; Shengkai Mao ; 4 cr.  
 59107 020 LEC, 15:35-16:25 MWF, Tate Hall 101, In Person Term Based; Alexander Voronov ; 4 cr.  
 59108 021 DIS, 14:30-15:20 TTh, Tate Hall B55, In Person Term Based; Jack Zhang ; 4 cr.  
 59109 022 DIS, 14:30-15:20 TTh, Vincent Hall 6, In Person Term Based; David Luo ; 4 cr.  
 59110 023 DIS, 15:35-16:25 TTh, Tate Hall B55, In Person Term Based; Jack Zhang ; 4 cr.  
 60710 012 DIS, 11:15-12:05 TTh, Kolthoff Hall 138, In Person Term Based; Eli Schlossberg ; 4 cr.  
 60768 015 DIS, 12:20-13:10 TTh, Vincent Hall 311, In Person Term Based; Eli Schlossberg ; 4 cr.  
 61846 003 LEC, Completely Online; Liya Ouyang ; 4 cr.

### 2263 Multivariable Calculus

**(Student Option; Prereq: [1272 or 1372 or 1572] w/ grade of at least C-)**

59111 001 LEC, 18:00-20:05 MW, Vincent Hall 311, In Person Term Based; Sasha Pevzner ; 4 cr.  
 59112 010 LEC, 11:15-12:05 MWF, Rapson Hall 100, In Person Term Based; Lingfei Yi ; 4 cr.  
 59113 012 DIS, 11:15-12:05 TTh, Vincent Hall 113, In Person Term Based; Sylvester Zhang ; 4 cr.  
 59114 013 DIS, 11:15-12:05 TTh, Vincent Hall 311, In Person Term Based; Mathieu De Langis ; 4 cr.  
 59115 014 DIS, 12:20-13:10 TTh, Vincent Hall 20, In Person Term Based; Drisana Mosaphir ; 4 cr.  
 59116 020 LEC, 13:25-14:15 MWF, Rapson Hall 100, In Person Term Based; Michael Perlman ; 4 cr.  
 59117 021 DIS, 13:25-14:15 TTh, Tate Hall B85, In Person Term Based; Mathieu De Langis ; 4 cr.  
 59118 022 DIS, 13:25-14:15 TTh, Vincent Hall 6, In Person Term Based ; 4 cr.  
 59119 023 DIS, 13:25-14:15 TTh, Vincent Hall 211, In Person Term Based; Jacob Hegna ; 4 cr.  
 59798 011 DIS, 11:15-12:05 TTh, Vincent Hall 211, In Person Term Based; Drisana Mosaphir ; 4 cr.  
 60709 024 DIS, 14:30-15:20 TTh, Vincent Hall 211, In Person Term Based; Jacob Hegna ; 4 cr.  
 60769 025 DIS, 14:30-15:20 TTh, Vincent Hall 311, In Person Term Based ; 4 cr.  
 61146 015 DIS, 12:20-13:10 TTh, Vincent Hall 2, In Person Term Based; Sylvester Zhang ; 4 cr.  
 61847 003 LEC, Completely Online; Jonathan Roth ; 4 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)**

59568 010 LEC, 09:05-09:55 MW, Tate Hall B20, In Person Term Based; Max Engelstein ; 4 cr.  
 59569 012 DIS, 10:10-11:00 Th, Kolthoff Hall 138, 09:05-09:55 TTh, Vincent Hall 211, In Person Term Based; Zanning Dai, Wuzhe Xu ; 4 cr.  
 59570 013 DIS, 11:15-12:05 Th, Vincent Hall 209, 10:10-11:00 TTh, Vincent Hall 6, In Person Term Based; Matthew Sikkink Johnson, Wuzhe Xu ; 4 cr.  
 59571 014 DIS, 12:20-13:10 Th, Ford Hall 115, 11:15-12:05 TTh, Vincent Hall 20, In Person Term Based; Peihang Wu, Wuzhe Xu ; 4 cr.  
 59572 020 LEC, 11:15-12:05 MW, Fraser Hall 102, In Person Term Based; Terrence Stanley ; 4 cr.  
 59573 021 DIS, 09:05-09:55 T, Kolthoff Hall 138, 08:00-08:50 TTh, Vincent Hall 207, In Person Term Based; Kuan-Yu Lin ; 4 cr.

59574 022 DIS, 10:10-11:00 T, Kolthoff Hall 138, 09:05-09:55 TTh, Vincent Hall 113, In Person Term Based; Kuan-Yu Lin ; 4 cr.  
 60359 015 DIS, 13:25-14:15 Th, Vincent Hall 209, 12:20-13:10 TTh, Vincent Hall 1, In Person Term Based; Matthew Sikkink Johnson, HyeKyung Kim ; 4 cr.  
 60547 023 DIS, 11:15-12:05 T, Vincent Hall 206, 10:10-11:00 TTh, Vincent Hall 211, In Person Term Based; Peihang Wu ; 4 cr.  
 60681 024 DIS, 12:20-13:10 T, Kolthoff Hall 140, 11:15-12:05 TTh, Vincent Hall 12, In Person Term Based; Ratul Biswas ; 4 cr.  
 61412 011 DIS, 09:05-09:55 Th, Kolthoff Hall 138, 08:00-08:50 TTh, Vincent Hall 209, In Person Term Based; Zanning Dai, Wuzhe Xu ; 4 cr.  
 61413 025 DIS, 13:25-14:15 T, Vincent Hall 209, 12:20-13:10 TTh, Vincent Hall 209, In Person Term Based; Ratul Biswas, HyeKyung Kim ; 4 cr.  
 61561 030 LEC, 14:30-15:20 MW, Tate Hall 101, In Person Term Based; Terrence Stanley ; 4 cr.  
 61562 031 DIS, 14:30-15:20 T, Vincent Hall 207, 13:25-14:15 TTh, Vincent Hall 113, In Person Term Based; Fikri Goksu ; 4 cr.  
 61563 032 DIS, 15:35-16:25 T, Tate Hall 120, 14:30-15:20 TTh, Vincent Hall 20, In Person Term Based; Fikri Goksu ; 4 cr.  
 61564 033 DIS, 16:40-17:30 T, Amundson Hall 156, 15:35-16:25 TTh, Vincent Hall 209, In Person Term Based; Fikri Goksu ; 4 cr.  
 61565 034 DIS, 17:45-18:35 T, Vincent Hall 206, 16:40-17:30 TTh, Vincent Hall 207, In Person Term Based; Fikri Goksu ; 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)**

59291 012 DIS, 10:10-11:00 Th, Kolthoff Hall 137, 09:05-09:55 TTh, Vincent Hall 311, In Person Term Based; Ike Goetzman, Zhengyi Gong ; 4 cr.  
 59292 013 DIS, 11:15-12:05 Th, Vincent Hall 207, 10:10-11:00 TTh, Vincent Hall 113, In Person Term Based; HyeKyung Kim, Zhengyi Gong ; 4 cr.  
 59293 020 LEC, 13:25-14:15 WF, Anderson Hall 250, In Person Term Based; Yongjia Zhang ; 4 cr.  
 59294 021 DIS, 14:30-15:20 Th, Vincent Hall 207, 13:25-14:15 TTh, Vincent Hall 311, In Person Term Based; Grace Zhang, Zeshen Gu ; 4 cr.  
 59295 022 DIS, 15:35-16:25 Th, Kolthoff Hall 133, 14:30-15:20 TTh, Vincent Hall 209, In Person Term Based; Grace Zhang, Zeshen Gu ; 4 cr.  
 59296 023 DIS, 16:40-17:30 Th, Kolthoff Hall 132, 15:35-16:25 TTh, Vincent Hall 207, In Person Term Based; Zane Huttinga, Zeshen Gu ; 4 cr.  
 59297 024 DIS, 17:45-18:35 Th, Vincent Hall 206, 16:40-17:30 TTh, Vincent Hall 206, In Person Term Based; Zane Huttinga, Zeshen Gu ; 4 cr.  
 59575 014 DIS, 12:20-13:10 Th, Kolthoff Hall 134, 11:15-12:05 TTh, Vincent Hall 1, In Person Term Based; Libby Farrell, Zhengyi Gong ; 4 cr.  
 59716 010 LEC, 09:05-09:55 WF, Tate Hall 105, In Person Term Based; Pei-Ken Hung ; 4 cr.  
 60401 015 DIS, 13:25-14:15 Th, Vincent Hall 207, 12:20-13:10 TTh, Vincent Hall 207, In Person Term Based; Ike Goetzman, Zhengyi Gong ; 4 cr.

### 2574H Honors Calculus IV

**(A-F only; Prereq: Math 1572H or Math 2573H, honors student and permission of University Honors Program)**

59576 010 LEC, 10:10-11:00 MWF, Tate Hall B20, In Person Term Based; Tsao-Hsien Chen ; 4 cr.  
 60743 013 DIS, 10:10-11:00 TTh, Vincent Hall 311, In Person Term Based; Marshall Smith ; 4 cr.  
 60827 014 DIS, 10:10-11:00 TTh, Vincent Hall 20, In Person Term Based; Montie Avery ; 4 cr.  
 65755 012 DIS, 09:05-09:55 TTh, Vincent Hall 2, In Person Term Based; Marshall Smith ; 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)**

59539 010 LEC, 09:05-09:55 MWF, Bruininks Hall 220, In Person Term Based; Bryan Mosher ; 4 cr.  
 59540 011 DIS, 09:05-09:55 TTh, Vincent Hall 1, In Person Term Based ; 4 cr.  
 60387 012 DIS, 09:05-09:55 TTh, Vincent Hall 209, In Person Term Based; Robert Angarone ; 4 cr.  
 60388 013 DIS, 09:05-09:55 TTh, Vincent Hall 207, In Person Term Based; Elise Catania ; 4 cr.

60758 014 DIS, 09:05-09:55 TTh, Vincent Hall 206, In Person Term Based; Trevor Karn ; 4 cr.  
 60936 015 DIS, 10:10-11:00 TTh, Vincent Hall 1, In Person Term Based; ; 4 cr.  
 61097 016 DIS, 10:10-11:00 TTh, Vincent Hall 209, In Person Term Based; Meagan Kenney ; 4 cr.  
 65757 018 DIS, 10:10-11:00 TTh, Vincent Hall 206, In Person Term Based; Claire Frechette ; 4 cr.  
 65758 017 DIS, 10:10-11:00 TTh, Vincent Hall 207, In Person Term Based; Heejune Kim ; 4 cr.

### 3593H Honors Mathematics II

(A-F or Audit; Prereq: 3592H or instr consent)  
 59780 010 LEC, 10:10-11:00 MWF, Vincent Hall 206, In Person Term Based; Markus Keel ; 5 cr.  
 59781 011 DIS, 10:10-11:00 TTh, Vincent Hall 213, In Person Term Based; Carolyn Stephen ; 5 cr.

### 4065 Theory of Interest

(A-F only; Prereq: 1272 or 1372 or 1572)  
 59218 001 LEC, 10:10-12:05 MW, Ford Hall 110, In Person Term Based; Breanne Richins ; 4 cr.  
 60760 002 LEC, 12:20-14:15 MW, Amundson Hall 158, In Person Term Based; Katherine Kovarik ; 4 cr.  
 60839 003 LEC, 10:10-12:05 MW, Amundson Hall 158, In Person Term Based; Katherine Kovarik ; 4 cr.

### 4067W Actuarial Mathematics in Practice

(A-F only; Prereq: 4065, ACCT 2050, ECON 1101, ECON 1102WI)  
 60837 001 LEC, 17:00-19:30 W, Bruininks Hall 131B, In Person Term Based; Doreen Vescelius ; 3 cr.

### 4152 Elementary Mathematical Logic

(Student Option; Prereq: one soph math course or instr consent)  
 61650 001 LEC, 10:10-11:00 MWF, Vincent Hall 113, In Person Term Based; Karel Prikry ; 3 cr.

### 4242 Applied Linear Algebra

(Student Option; Prereq: 2243 or 2373 or 2573)  
 59484 002 LEC, 10:10-11:00 MWF, Vincent Hall 311, In Person Term Based; ; 4 cr.  
 59552 003 LEC, 12:20-13:10 MWF, Vincent Hall 20, In Person Term Based; ; 4 cr.  
 59740 004 LEC, 12:20-13:10 MWF, Vincent Hall 2, In Person Term Based; Rick Moeckel ; 4 cr.  
 60142 001 LEC, 10:10-11:00 MWF, Vincent Hall 6, In Person Term Based; Steven Sperber ; 4 cr.  
 60770 005 LEC, 14:30-15:20 MWF, Vincent Hall 311, In Person Term Based; Nonihiro Yamada ; 4 cr.  
 60813 006 LEC, 14:30-15:20 MWF, Vincent Hall 20, In Person Term Based; Daoji Huang ; 4 cr.  
 61803 007 LEC, 11:15-12:05 MWF, Vincent Hall 1, In Person Term Based; Jack Conn ; 4 cr.  
 61804 008 LEC, 13:25-14:15 MWF, Vincent Hall 6, In Person Term Based; Jiaping Wang ; 4 cr.

### 4281 Introduction to Modern Algebra

(Student Option; Prereq: 2283 or 3283 or instr consent)  
 59782 001 LEC, 10:10-11:00 MWF, Vincent Hall 211, In Person Term Based; Tian-Jun Li ; 4 cr.  
 60935 002 LEC, 11:15-12:05 MWF, Vincent Hall 211, In Person Term Based; Daoji Huang ; 4 cr.

### 4428 Mathematical Modeling

(Student Option; Prereq: 2243 or 2373 or 2573)  
 59327 001 LEC, 10:10-11:00 MWF, Vincent Hall 20, In Person Term Based; Carme Calderer ; 4 cr.  
 61021 002 LEC, 12:20-13:10 MWF, Vincent Hall 1, In Person Term Based; Carme Calderer ; 4 cr.

### 4512 Differential Equations with Applications

(Student Option; Prereq: 2243 or 2373 or 2573)  
 59319 001 LEC, 10:10-11:00 MWF, Vincent Hall 2, In Person Term Based; Hao Jia ; 3 cr.  
 60840 002 LEC, 13:25-14:15 MWF, Vincent Hall 211, In Person Term Based; Ru-yu Lai ; 3 cr.

### 4567 Applied Fourier Analysis

(Student Option; Prereq: 2243 or 2373 or 2573)  
 59328 001 LEC, 13:25-14:15 MWF, Tate Hall B65, In Person Term Based; Dennis Hejhal ; 4 cr.  
 60841 002 LEC, 15:35-16:25 MWF, Tate Hall 120, In Person Term Based; Dennis Hejhal ; 4 cr.

### 4604 Advanced Calculus II

(Student Option; Prereq: 4603 or 5615 or instr consent)  
 60796 001 LEC, 09:05-11:00 TTh, Kolthoff Hall 139, 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)

60332 001 LEC, 10:10-12:05 TTh, Akerman Hall 327, In Person Term Based; Rick Moeckel ; 4 cr.

### 4707 Introduction to Combinatorics and Graph Theory

(Student Option; Prereq: 2243, [2283 or 3283])  
 59720 001 LEC, 14:30-16:25 MW, Vincent Hall 211, In Person Term Based; Gregg Musiker ; 4 cr.

### 4991 Independent Study

(Student Option; )  
 59493 001 IND, 00:00-00:00 , Independent/Directed Study; Rina Ashkenazi ; 1-4 cr.  
 60373 002 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.  
 60766 003 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.

### 4992 Directed Reading

(Student Option; )  
 59494 001 IND, 00:00-00:00 , Independent/Directed Study; Peter Polacik ; 1-4 cr.  
 60550 002 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.  
 61859 003 IND, In Person Term Based; ; 1-4 cr.

### 4993 Directed Study

(Student Option; )  
 59495 001 IND, 00:00-00:00 , Independent/Directed Study; Pavlo Pylyavskyy ; 1-4 cr.

### 4995 Senior Project for CLA

(A-F or Audit; Prereq: 2 sem of upper div math, dept consent)  
 59717 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60299 004 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60300 003 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60301 002 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60302 005 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60772 006 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60775 007 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 61838 008 IND, In Person Term Based; 1 cr.  
 61865 009 IND, In Person Term Based; 1 cr.  
 61869 010 IND, In Person Term Based; 1 cr.  
 61878 011 IND, In Person Term Based; 1 cr.  
 61893 012 IND, In Person Term Based; 1 cr.  
 61901 013 IND, In Person Term Based; 1 cr.  
 61907 014 IND, In Person Term Based; 1 cr.  
 61910 015 IND, In Person Term Based; 1 cr.  
 61912 016 IND, In Person Term Based; 1 cr.  
 61913 017 IND, In Person Term Based; 1 cr.  
 61915 018 IND, In Person Term Based; 1 cr.  
 61918 019 IND, In Person Term Based; 1 cr.  
 61919 020 IND, In Person Term Based; ; 1 cr.  
 61920 021 IND, In Person Term Based; 1 cr.  
 61925 022 IND, In Person Term Based; ; 1 cr.

### 4997W Senior project (Writing Intensive)

(A-F or Audit; Prereq: 2 sem upper div math, dept consentWI)  
 59718 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60303 008 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60304 007 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60305 006 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60306 005 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60307 004 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60308 003 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60309 002 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60375 009 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60618 010 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 60774 011 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.  
 61827 012 IND, In Person Term Based; 1 cr.  
 61828 013 IND, In Person Term Based; 1 cr.  
 61829 014 IND, In Person Term Based; 1 cr.  
 61830 015 IND, In Person Term Based; 1 cr.  
 61832 016 IND, In Person Term Based; 1 cr.  
 61833 017 IND, In Person Term Based; 1 cr.

61834 018 IND, In Person Term Based; 1 cr.  
 61836 019 IND, In Person Term Based; 1 cr.  
 61837 020 IND, In Person Term Based; 1 cr.  
 61852 021 IND, In Person Term Based; 1 cr.  
 61853 022 IND, In Person Term Based; 1 cr.  
 61863 023 IND, In Person Term Based; 1 cr.  
 61864 024 IND, In Person Term Based; 1 cr.  
 61872 025 IND, In Person Term Based; 1 cr.  
 61876 026 IND, In Person Term Based; 1 cr.  
 61879 027 IND, In Person Term Based; 1 cr.  
 61882 028 IND, In Person Term Based; 1 cr.  
 61892 029 IND, In Person Term Based; 1 cr.  
 61894 030 IND, In Person Term Based; 1 cr.  
 61902 031 IND, In Person Term Based; 1 cr.  
 61909 032 IND, In Person Term Based; 1 cr.  
 61911 033 IND, In Person Term Based; 1 cr.  
 61916 034 IND, In Person Term Based; 1 cr.  
 61924 035 IND, In Person Term Based; 1 cr.

### 5068 Actuarial Mathematics II

(Student Option; Prereq: 5067)  
 59229 001 LEC, 12:20-14:15 MW, Ford Hall 130, In Person Term Based; Breanne Richins ; 4 cr.  
 60803 002 LEC, 12:20-14:15 MW, Ford Hall 115, In Person Term Based; Aileen Lyle ; 4 cr.

### 5248 Cryptology and Number Theory

(Student Option; Prereq: 2 sems soph math)  
 60310 001 LEC, 13:00-14:15 MW, Vincent Hall 113, In Person Term Based; Benjamin Brubaker ; 4 cr.  
 60842 002 LEC, 14:30-15:45 TTh, Vincent Hall 113, In Person Term Based; Hannah Burson ; 4 cr.

### 5251 Error-Correcting Codes, Finite Fields, Algebraic Curves

(Student Option; Prereq: 2 sems soph math)  
 59320 001 LEC, 16:00-17:15 MW, Vincent Hall 113, In Person Term Based; Victor Reiner ; 4 cr.

### 5286H Honors: Fundamental Structures of Algebra II

(Student Option; Prereq: 5285)  
 59306 001 LEC, 10:10-11:00 MWF, Vincent Hall 1, In Person Term Based; Patricia Klein ; 4 cr.

### 5378 Differential Geometry

(Student Option; Prereq: [2263 or 2374 or 2573], [2243 or 2373 or 2574]; [2283 or 3283] recommended)  
 59326 001 LEC, 14:30-15:20 MWF, Vincent Hall 2, 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])  
 60708 001 LEC, 14:30-15:45 MW, Vincent Hall 206, In Person Term Based; Ayah Almousa ; 4 cr.

### 5445 Mathematical Analysis of Biological Networks

(Student Option; Prereq: Linear algebra, differential equations)  
 61029 001 LEC, 13:00-14:15 TTh, Vincent Hall 206, In Person Term Based; Hans Othmer ; 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)  
 61689 001 LEC, 13:00-14:15 MW, Bruininks Hall 530B, In Person Term Based; Jeff Calder ; 4 cr.

### 5486 Introduction To Numerical Methods II

(Student Option; Prereq: 5485)  
 59492 001 LEC, 13:25-14:15 MWF, Vincent Hall 20, In Person Term Based; Pei Liu ; 4 cr.

### 5490 Topics in Applied Mathematics

(Student Option; )  
 68975 001 LEC, 10:10-12:05 WF, Keller Hall 2-260, In Person Term Based; Christine Berkesch ; 4 cr.

### 5525 Introduction to Ordinary Differential Equations

(Student Option; Prereq: [2243 or 2373 or 2573], [2283 or 2574 or 3283])  
 59753 001 LEC, 11:15-12:05 MWF, Vincent Hall 113, In Person Term Based; Mikhail Safonov ; 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)

59541 001 LEC, 14:30-15:45 TTh, Vincent Hall 206, In Person Term Based; Mikhail Safonov ; 4 cr.

### 5616H Honors: Introduction to Analysis II (Student Option; Prereq: 5615)

59317 001 LEC, 12:20-13:10 MWF, Vincent Hall 207, In Person Term Based; Douglas Arnold ; 4 cr.  
59318 002 LEC, 14:30-15:20 MWF, Vincent Hall 209, In Person Term Based; Arnd Scheel ; 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.)

59329 001 LEC, 10:10-12:05 TTh, Ford Hall 150, In Person Term Based; Shiwen Zhang ; 4 cr.  
59577 002 LEC, 10:10-12:05 TTh, Ford Hall 130, In Person Term Based; Arnab Sen ; 4 cr.  
60843 003 LEC, 14:30-16:25 TTh, Nicholson Hall 335, In Person Term Based; Arnab Sen ; 4 cr.

### 5652 Introduction to Stochastic Processes (Student Option; Prereq: 5651 or Stat 5101)

59330 001 LEC, 10:10-12:05 MW, Ford Hall 115, In Person Term Based; Mike Weimerskirch ; 4 cr.  
60844 002 LEC, 12:20-14:15 MW, Ford Hall 110, In Person Term Based; Anna Kraut ; 4 cr.  
61023 003 LEC, 16:40-18:35 TTh, Ford Hall 151, In Person Term Based; Anna Kraut ; 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)

59307 001 LEC, 11:15-13:10 MW, Twin Cities Remote, Completely Online; Nick Ovenhouse ; 4 cr.

### 5900 Tutorial in Advanced Mathematics

(A-F or Audit; )  
59721 001 IND, In Person Term Based; 1-6 cr.  
60767 002 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

## Mathematics Education (MTHE)

### 3101 Mathematics and Pedagogy for Elementary Teachers I

(A-F or Audit; Prereq: [College algebra, elementary FOE or Early Childhood student, jr status or above] or instr consent)

52192 001 LEC, 11:45-13:00 MW, Lrng & Environmental Sci 139B, In Person Term Based; Megan Parise ; 3 cr.

### 3102 Mathematics and Pedagogy for Elementary Teachers II

(A-F or Audit; Prereq: 3101, college algebra)  
51520 001 LEC, 08:45-10:00 MW, Lrng & Environmental Sci 139B, In Person Term Based; Amber Armstrong ; 3 cr.  
51656 002 LEC, 13:30-14:45 TTh, 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)  
51162 001 LEC, 13:30-16:15 TTh, Lrng & Environmental Sci 139A, In Person Term Based; Erin Baldinger ; 3 cr.

### 5366 Technology-Assisted Mathematics Instruction

(Student Option; )  
66191 001 LEC, 16:40-19:20 T, Lrng & Environmental Sci 139B, In Person Term Based; Terrence Wyberg ; 3 cr.

### 5696 Student Teaching in Mathematics

(S-N only; Prereq: MEd/initial licensure student or instr consent)  
51187 001 FWK, 16:40-19:20 W, Lrng & Environmental Sci 139B, 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)  
51188 001 IND, In Person Term Based; 2 cr.

## Mechanical Engineering (ME)

### 3221 Fundamentals of Design & Manufacturing

(A-F or Audit; Prereq: 2011, AEM 3031, MatS 2001)  
59408 001 LEC, 12:20-13:10 MWF, Fraser Hall 102, In Person Term Based; Julianna Abel ; 4 cr.  
59409 004 LAB, 10:10-12:05 T, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59410 005 LAB, 12:20-14:15 T, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59411 006 LAB, 14:30-16:25 T, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59412 008 LAB, 10:10-12:05 W, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59413 009 LAB, 14:30-16:25 W, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59414 010 LAB, 08:00-09:55 Th, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59515 011 LAB, 10:10-12:05 Th, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59516 012 LAB, 12:20-14:15 Th, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59517 013 LAB, 14:30-16:25 Th, Mechanical Engineering 50, In Person Term Based; Susan Mantell ; 4 cr.  
59694 016 DIS, 08:00-09:55 M, Akerman Hall 313, In Person Term Based; Julianna Abel ; 4 cr.  
59695 017 DIS, 10:10-12:05 M, Cooke Hall 214, In Person Term Based; Julianna Abel ; 4 cr.  
59696 018 DIS, 16:40-18:35 W, Akerman Hall 313, In Person Term Based; Julianna Abel ; 4 cr.

### 3222 Mechanisms & Machine Design

(A-F or Audit; Prereq: [3221 or concurrent registration is required (or allowed) in 3221], [CSci 1113 or equiv])  
59415 001 LEC, 17:15-18:30 TTh, Twin Cities Remote, Completely Online; Kumar Tamma ; 4 cr.  
59416 002 DIS, 17:30-19:00 W, Mechanical Engineering 321, In Person Term Based; Kumar Tamma ; 4 cr.  
61052 003 DIS, 14:30-16:00 Th, Mechanical Engineering 321, In Person Term Based; Kumar Tamma ; 4 cr.  
61148 005 DIS, 08:00-09:30 T, Mechanical Engineering 321, In Person Term Based; Tianhong Cui ; 4 cr.  
61149 004 LEC, 11:15-12:05 MWF, Mechanical Engineering 212, In Person Term Based; Tianhong Cui ; 4 cr.  
61150 006 DIS, 08:00-09:30 Th, Mechanical Engineering 321, In Person Term Based; Tianhong Cui ; 4 cr.

### 3281 System Dynamics and Control

(A-F or Audit; Prereq: AEM 2021, [Math 2243 or Math 2373], ME upper div)  
60682 002 LEC, 11:15-12:45 TTh, Fraser Hall 102, In Person Term Based; Jeremy Simmons ; 4 cr.  
60683 003 DIS, 11:15-12:05 M, Rapson Hall 58, In Person Term Based; Jeremy Simmons ; 4 cr.  
60684 004 DIS, 13:25-14:15 T, Cooke Hall 215, In Person Term Based; Jeremy Simmons ; 4 cr.  
61603 005 DIS, 14:30-15:20 W, Akerman Hall 225, In Person Term Based; Jeremy Simmons ; 4 cr.

### 3331 Thermodynamics

(A-F only; Prereq: Chem 1061, Chem 1065, Phys 1301)  
60341 001 LEC, 08:00-08:50 MWF, Bruininks Hall 432, In Person Term Based; Xiaojia Wang ; 3 cr.  
60342 002 DIS, 16:40-17:30 M, Mechanical Engineering 108, In Person Term Based; Xiaojia Wang ; 3 cr.  
60986 006 LEC, 08:15-09:30 TTh, Bruininks Hall 412, In Person Term Based; Alptekin Aksan ; 3 cr.  
60987 007 DIS, 15:35-16:25 F, Bruininks Hall 432, In Person Term Based; Alptekin Aksan ; 3 cr.

### 3332 Fluid Mechanics

(A-F only; Prereq: Math 2243 or Math 2373, 3331)  
61064 004 LEC, 14:30-15:20 MWF, Akerman Hall 209, In Person Term Based; Matt Anderson ; 3 cr.  
61065 005 DIS, 15:35-16:25 T, Rapson Hall 56, In Person Term Based; Matt Anderson ; 3 cr.

### 3333 Heat Transfer

(A-F only; Prereq: 3332)  
60343 001 LEC, 10:10-11:00 MWF, Smith Hall 231, In Person Term Based; Yun Chen ; 3 cr.  
60344 002 DIS, 10:10-11:00 Th, Keller Hall 3-230, In Person Term Based; Yun Chen ; 3 cr.  
61166 003 LEC, 08:00-08:50 MWF, Akerman Hall 225, In Person Term Based; Ankit Saini ; 3 cr.  
61167 004 DIS, 08:00-08:50 Th, Akerman Hall 227, In Person Term Based; Ankit Saini ; 3 cr.  
61383 005 DIS, 10:10-11:00 Th, Akerman Hall 317, In Person Term Based; Ankit Saini ; 3 cr.

### 3990 Curricular Practical Training

(S-N only; Prereq: ME major)

61054 001 FWK, Independent/Directed Study; Terrence Simon ; 1 cr.

### 4031W Basic Mechanical Measurements Laboratory

(A-F or Audit; Prereq: IE 4521, upper div MEWI)  
59806 001 LEC, 13:25-14:15 MWF, Vincent Hall 16, In Person Term Based; David Pui ; 4 cr.  
59807 002 LAB, 09:05-12:05 M, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59808 003 LAB, 08:00-11:00 T, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59809 004 LAB, 09:05-12:05 W, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59810 005 LAB, 08:00-11:00 Th, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59811 006 LAB, 09:05-12:05 F, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59812 007 LAB, 14:30-17:30 M, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59813 008 LAB, 11:10-14:10 T, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59814 009 LAB, 14:30-17:30 W, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59815 010 LAB, 11:10-14:10 Th, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59816 011 LAB, 14:30-17:30 F, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59817 012 LAB, 14:20-17:20 T, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59818 013 LAB, 14:20-17:20 Th, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59819 014 LAB, 17:30-20:30 T, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.  
59820 015 LAB, 17:30-20:30 Th, Mechanical Engineering 152, In Person Term Based; David Pui ; 4 cr.

### 4043W Industrial Assignment II

(A-F only; Prereq: 3041WI)  
59447 001 FWK, 00:00-00:00 , , Primarily Online; William Northrop ; 4 cr.

### 4044 Industrial Assignment III

(A-F only; Prereq: ME upper div, registration in ME co-op program)  
60357 001 FWK, 00:00-00:00 , , Primarily Online; William Northrop ; 2 cr.

### 4053 Mechanical Engineering Modeling

(Student Option; )  
61369 001 LEC, 12:20-14:15 TTh, Bruininks Hall 412, In Person Term Based; Frank Kelso, Terrence Simon ; 4 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)  
59433 001 LEC, 16:00-17:30 T, Bruininks Hall 412, In Person Term Based; Natasha Wright ; 4 cr.  
59434 002 DIS, 16:00-17:30 Th, Bruininks Hall 412, 14:30-15:45 TTh, Bruininks Hall 412, In Person Term Based; Natasha Wright ; 4 cr.

### 4090 Advanced Engineering Problems

(Student Option; Prereq: ME upper div, instr consent)  
59498 001 IND, 00:00-00:00 , , In Person Term Based; Chris Hogan ; 2-4 cr.  
60293 002 IND, 00:00-00:00 , , In Person Term Based; 2-4 cr.  
61848 003 IND, In Person Term Based; 2-4 cr.  
61854 004 IND, In Person Term Based; 2-4 cr.

### 4231 Motion Control Laboratory

(A-F or Audit; Prereq: 3281, 4031W, ME upper div)  
59417 001 LEC, 12:20-14:15 F, Akerman Hall 225, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59418 003 LAB, 09:05-12:05 M, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59419 004 LAB, 14:30-17:30 M, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59420 005 LAB, 09:05-12:05 T, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59421 006 LAB, 09:05-12:05 Th, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59422 007 LAB, 09:05-12:05 W, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.  
59709 008 LAB, 14:30-17:30 W, Mechanical Engineering 270, In Person Term Based; Rajesh Rajamani ; 4 cr.

### 4232 Fluid Power Control Lab

(A-F or Audit; Prereq: 3281, 4031W, ME upper div)  
59724 001 LEC, 10:10-12:05 F, Akerman Hall 211, In Person Term Based; Perry Li ; 4 cr.

59726 003 LAB, 11:15-13:10 TTh, Mechanical Engineering 256, In Person Term Based; Perry Li ; 4 cr.  
 59728 005 LAB, 14:30-16:25 MW, Mechanical Engineering 256, In Person Term Based; Perry Li ; 4 cr.  
 60358 006 LAB, 10:10-12:05 MW, Mechanical Engineering 256, 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])  
 61604 001 LEC, 10:10-11:00 TTh, Akerman Hall 211, In Person Term Based; Allison Hubel ; 4 cr.  
 61605 002 LAB, 09:05-12:05 M, , In Person Term Based; Allison Hubel ; 4 cr.  
 61606 003 LAB, 09:05-12:05 W, , In Person Term Based; Allison Hubel ; 4 cr.  
 61607 004 LAB, 16:40-19:40 W, , In Person Term Based; Allison Hubel ; 4 cr.  
 61608 005 LAB, 17:45-20:45 Th, , In Person Term Based; Allison Hubel ; 4 cr.  
 61609 006 LAB, 14:30-17:30 M, , In Person Term Based; Allison Hubel ; 4 cr.  
 67818 007 LAB, 09:05-12:05 F, , In Person Term Based; Allison Hubel ; 4 cr.

### 5103 Thermal Environmental Engineering

(A-F or Audit; Prereq: 3331 or 3332, 3333, CSE upper div or grad)  
 67768 001 LEC, 08:00-09:55 MW, Keller Hall 3-115, In Person Term Based; Uwe Kortshagen ; 4 cr.

### 5221 Computer-Assisted Product Realization

(A-F or Audit; Prereq: 3221, AEM 3031, CSci 1113, MatS 2001)  
 61610 001 LEC, 14:30-16:25 MF, Bruininks Hall 117, In Person Term Based; Daniel Escobar-Naranjo ; 4 cr.

### 5241 Computer-Aided Engineering

(A-F or Audit; Prereq: 3222, CSci 1113 or equiv, CSE upper div or grad)  
 59544 001 LEC, 12:20-14:15 MW, Keller Hall 3-210, In Person Term Based; Thomas Chase ; 4 cr.  
 60746 883 LEC, 12:20-14:15 MW, Twin Cities Remote, Completely Online; Thomas Chase ; 4 cr.

### 5243 Advanced Mechanism Design

(A-F or Audit; Prereq: CSE upper div or grad, 3222 or equiv, basic kinematics and dynamics of machines; knowledge of CAD packages such as Pro-E recommended)  
 61611 001 LEC, 10:10-12:05 MW, Bruininks Hall 432, In Person Term Based; Arthur Erdman ; 4 cr.

### 5286 Robotics

(A-F or Audit; Prereq: [3281 or equiv], [upper div ME or AEM or CSci or grad student])  
 59693 001 LEC, 08:00-09:55 TTh, Mechanical Engineering 212, In Person Term Based; Max Donath, Rodney Dockter ; 4 cr.  
 60691 883 LEC, 08:00-09:55 TTh, Twin Cities Remote, Completely Online; Max Donath, Rodney Dockter ; 4 cr.

### 5341 Case Studies in Thermal Engineering and Design

(A-F or Audit; Prereq: 3333, CSE upper div or grad student)  
 61612 001 LEC, 12:20-14:15 MW, Keller Hall 3-230, In Person Term Based; Matt Anderson ; 4 cr.  
 61635 883 LEC, 12:20-14:15 MW, Twin Cities Remote, Completely Online; Matt Anderson ; 4 cr.

### 5446 Introduction to Combustion

(A-F or Audit; Prereq: 3331, 3332, 3333, CSE upper div or grad student)  
 61613 001 LEC, 08:00-09:55 TTh, Keller Hall 3-230, In Person Term Based; Suo Yang ; 4 cr.  
 61636 883 LEC, 08:00-09:55 TTh, Twin Cities Remote, Completely Online; Suo Yang ; 4 cr.

## Medical Device Innovation (MDI)

### 5001 Technical Communications

(A-F only; Prereq: grad MDI major)  
 69920 001 DIS, 17:30-21:30 M, Pillsbury Hall 214, 17:30-21:30 M, Pillsbury Hall 214, 17:30-21:30 M, Pillsbury Hall 214, 17:30-21:30 M, Pillsbury Hall 214, 17:30-21:30 M, Pillsbury Hall 214, In Person Term Based; Daniel Mooradian ; 1 cr.

### 5008 Quality, Regulatory and Operations Management

(A-F only; Prereq: MDI graduate student only)  
 68700 001 LEC, In Person Term Based; Mac McKeen ; 3 cr.

### 5012 Medical Industry Strategic Analysis

(A-F only; Prereq: MDI grad student. Non-MDI graduate students and non-degree graduate students may register for this course with permission of the MDI program.)  
 66921 001 LEC, In Person Term Based; Daniel Mooradian ; 3 cr.

### 5013 Biodesign Practicum I

(A-F only; Prereq: Grad MDI student)  
 66917 001 LEC, 08:30-16:30 Sa, Folwell Hall 123, 08:30-16:30 Sa, Folwell Hall 123, 08:30-16:30 Sa, Folwell Hall 123, 08:30-16:30 Sa, Folwell Hall 123, In Person Term Based; Joseph Hale ; 2 cr.

### 5020 Medical Device Innovation Capstone

(A-F only; )  
 61381 001 LEC, In Person Term Based; Daniel Mooradian ; 1-2 cr.

### 5051 Leading Innovation & Change

(A-F only; Prereq: Grad MDI Student and completion of MDI 5050.)  
 66922 001 LEC, In Person Term Based; Randall Ross ; 1 cr.

### 5060 MDI Independent Study

(A-F only; Prereq: MDI grad student)  
 61877 001 IND, In Person Term Based; 1-3 cr.

## Medical Industry Leadrshp Inst (MILI)

### 3589 Medical Technology and Society

(A-F or Audit; TS)  
 58183 001 LEC, 14:30-15:45 TTh, Carlson School of Mgmt L-126, In Person Term Based; Pinar Karaca Mandic ; 3 cr.

### 3963 Health Market Analytics

(A-F only; Prerequisite: We recommended that students have a background in statistics. Consider MKTG 3005 - or STAT 3011 or equivalent course. We also recommend a previously taken class with Excel, R, SAS, SQL, or Access.)  
 66070 001 LEC, 08:15-09:30 MW, Carlson School of Mgmt 1-132, In Person Term Based; Caroline Carlin ; 3 cr.

### 5995 Medical Industry Valuation Laboratory

(A-F only; Prereq: instr consent)  
 57886 001 LEC, 17:45-19:30 Th, Carlson School of Mgmt 1-136, In Person Term Based; Meets With: 060 MILI 6995; Michael Finch, Matthew Stoll ; 2 cr.

### 5999 Independent Study

(A-F only; )  
 57887 001 IND, In Person Term Based; 1-8 cr.

## Medical Laboratory Sciences Pr (MLSP)

### 1010 Introduction to Medical Laboratory Science

(S-N only; )  
 64859 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Constance Weston ; 1 cr.

### 5011W Professional Issues in the Health Care Community

(A-F only; WI)  
 64860 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Janice Conway-Klaassen, Donna Spannaus-Martin ; 2 cr.

### 5113 Advanced Concepts in Diagnostic Microbiology

(A-F only; )  
 64861 001 LEC, 09:05-11:00 M, Phillips-Wangensteen 3154/3156, Partially Online; Meets With: 001 MLSP 6113; Lorna Ruskin ; 3 cr.

### 5213 Diagnostic Hematology

(A-F only; )  
 64872 001 LEC, 11:15-13:10 M, Moos Health Sci Tower 5-125, Partially Online; Meets With: 001 MLSP 6213; Stephen Wiesner ; 3 cr.

### 5214 Advanced Hematology Morphology

(A-F only; )  
 64873 001 LAB, 13:25-16:25 W, Twin Cities Remote, Completely Online; Stephen Wiesner ; 1 cr.

### 5311 Fundamental Biomedical Laboratory Techniques

(A-F only; )  
 64862 001 LEC, 12:20-13:10 MW, Mayo Bldg & Additions D199, Partially Online; Hannah Gartzke ; 4 cr.  
 64870 002 LAB, 13:30-16:30 MW, Molecular Cellular Biol 3-150, In Person Term Based; Hannah Gartzke ; 4 cr.

### 5312 Body Fluid Analysis

(A-F only; )  
 64874 001 LEC, 14:00-14:50 M, Phillips-Wangensteen 3150/3152, Partially Online; Donna Spannaus-Martin ; 2 cr.  
 64875 002 LAB, 09:00-11:30 T, Molecular Cellular Biol 3-150, In Person Term Based; Christine Maleck ; 2 cr.  
 64876 003 LAB, 13:00-15:30 T, Molecular Cellular Biol 3-150, In Person Term Based; Christine Maleck ; 2 cr.  
 68069 004 LAB, 13:00-15:30 T, Molecular Cellular Biol 3-150, In Person Term Based; Christine Maleck ; 2 cr.

### 5513 Transfusion Medicine Principles and Methods

(A-F only; )  
 64863 001 LEC, 09:05-11:00 W, Phillips-Wangensteen 3154/3156, Partially Online; Meets With: 001 MLSP 6513; Michelle Henry-Stanley ; 3 cr.

### 5514 Application of Transfusion Medicine Principles

(A-F only; )  
 64864 001 LAB, 08:00-12:00 Th, Molecular Cellular Biol 3-150, In Person Term Based; Andrew Yue ; 2 cr.  
 64869 002 LAB, 13:00-17:00 Th, Molecular Cellular Biol 3-150, In Person Term Based; Andrew Yue ; 2 cr.  
 67804 003 LAB, 13:00-17:00 Th, Molecular Cellular Biol 3-150, In Person Term Based; Andrew Yue ; 2 cr.

### 5801 Advanced Practicum Experience in Specialty Disciplines

(S-N only; )  
 64871 001 LEC, Independent/Directed Study; Tami Alpaugh ; 1 cr.

## Medical Physics (MPHY)

### 5040 Introduction to Medical Physics

(A-F only; )  
 63243 001 LEC, 16:00-17:15 MW, ONLINE BLENDED, 16:00-17:15 MW, Phillips-Wangenstn Bldg 1-164, Partially Online; Eric Ehler ; 3 cr.

### 5173 Radiation Therapy Physics II

(Student Option; Prereq: 5170 or instr consent)  
 62815 001 LEC, 16:00-17:15 TTh, Phillips-Wangenstn Bldg 1-164, In Person Term Based; Parham Alaei ; 3 cr.

### 5174 Medical and Health Physics of Imaging II

(Student Option; Prereq: 5170 or instr consent)  
 63211 001 LEC, 15:00-16:15 MW, , In Person Term Based; Ngoneh Jallow ; 3 cr.

### 5177 Radiation Therapy Physics Lab: Radiation Physics Basics

(A-F only; Prereq: 5170 or concurrent registration is required (or allowed) in 5173 or instr consent)  
 62816 001 LAB, 16:30-19:30 M, , In Person Term Based; Yoichi Watanabe ; 3 cr.

## Medicinal Chemistry (MEDC)

### 5485 Drug Metabolism and Pharmacokinetics

(A-F or Audit; Prerequisites: Organic Chemistry, Med Chem 8001 (may be waived for students from other programs). This course adheres to the items listed in the College of Pharmacy Central Syllabus: [https://docs.google.com/a/umn.edu/document/d/1artQ5e1rbzxe8lEtWo7BE8k8snZAEgMMz\\_QcW8yJ-ll/edit?pli=1](https://docs.google.com/a/umn.edu/document/d/1artQ5e1rbzxe8lEtWo7BE8k8snZAEgMMz_QcW8yJ-ll/edit?pli=1))  
 66651 001 LEC, 13:00-14:15 MW, Health Sciences Edu Ctr 4-101, In Person Term Based; Rory Remmel ; 3 cr.

## Medieval Studies (MEST)



**2171 Introductory Anatomy**

(A-F only; )  
63331 001 LEC, 11:30-14:00 M, Jackson Hall 2-125, In Person Term Based; Michael Mathews ; 3 cr.

**3009 Introductory Accounting**

(A-F only; )  
69193 001 LEC, 09:30-12:00 F, Jackson Hall 2-121, In Person Term Based; Kendell Poch ; 3 cr.

**3014 Funeral Service Rules and Regulations**

(A-F only; )  
69382 001 LEC, 11:00-12:40 W, Jackson Hall 2-125, In Person Term Based; Michael Mathews ; 2 cr.

**3016 Funeral Service Marketing and Merchandising**

(A-F or Audit; )  
69036 001 LEC, 15:30-18:00 M, Jackson Hall 2-137, In Person Term Based; Denise Gochenouer ; 3 cr.

**3019 Funeral Service Practice II**

(A-F only; )  
62543 001 LEC, 09:00-11:30 T, Jackson Hall 2-125, In Person Term Based; Michael Mathews ; 3 cr.

**3022W Funeral Service Arrangements Laboratory**

(A-F only; Prerequisites: MORT 3021W, MORT 3014WI)  
62509 001 LEC, 09:00-11:30 Th, Jackson Hall 2-137, In Person Term Based; Carrie McGhee ; 4 cr.  
62671 002 LAB, 12:30-15:00 Th, Jackson Hall 2-125, In Person Term Based; Carrie McGhee ; 4 cr.  
62674 003 LAB, 15:00-17:30 Th, Jackson Hall 2-125, In Person Term Based; Carrie McGhee ; 4 cr.

**3031 Funeral Service Law**

(A-F only; Prerequisites: MORT 3025: Business Law)  
62510 001 LEC, 16:30-18:10 T, Jackson Hall 2-125, In Person Term Based; Doug Meslow ; 2 cr.

**3048 Microbiology and Pathology for Funeral Service**

(A-F only; )  
62701 001 LEC, 09:00-10:40 M, Twin Cities Remote, Completely Online; Michael Mathews ; 4 cr.

**3051 Restorative Art**

(A-F only; Prerequisites: MORT 2171 Introductory Human Anatomy; MORT 3171 Human Anatomy Laboratory )  
62452 001 LEC, 12:30-15:00 M, Jackson Hall 2-121, In Person Term Based; Kelley Romanowski ; 3 cr.

**3061 Embalming Theory**

(A-F only; Prerequisites: MORT 2171 Introductory Human Anatomy; MORT 3171 Human Anatomy Laboratory )  
62496 001 LEC, 09:00-11:30 M, Jackson Hall 2-121, In Person Term Based; Carrie McGhee ; 3 cr.

**3065 Embalming Chemistry**

(A-F only; )  
62542 001 LEC, 09:00-10:40 W, Jackson Hall 2-125, In Person Term Based; Michael Mathews ; 2 cr.

**3151 Restorative Art Laboratory**

(A-F only; )  
62453 001 LAB, 09:00-12:00 W, Jackson Hall 5-125A, In Person Term Based; Kelley Romanowski, Chelsea Smolenski ; 1 cr.  
62511 002 LAB, 13:30-16:30 W, Jackson Hall 5-125A, In Person Term Based; Kelley Romanowski, Chelsea Smolenski ; 1 cr.

**3161 Embalming Laboratory**

(A-F only; )  
62424 001 LAB, 09:00-12:00 T, Jackson Hall 5-125A, In Person Term Based; Carrie McGhee ; 1 cr.  
62425 002 LAB, 13:00-16:00 T, Jackson Hall 5-125A, In Person Term Based; Carrie McGhee ; 1 cr.

**3171 Human Anatomy Laboratory**

(A-F or Audit; Prerequisites: MORT 2171; PHAR 1002: Medical Terminology)  
69058 001 LAB, 13:30-16:30 W, Jackson Hall 2-121, In Person Term Based; Louise Wojchik ; 2 cr.

**3379 Clinical Funeral Service Rotation**

(A-F only; Prerequisites: MORT 3051; 3061; 3151; 3161)  
62497 001 ROT, 11:30-13:30 F, Jackson Hall 2-125, In Person Term Based; Carrie McGhee ; 1-6 cr.

**3384 Mortuary Science Practice in the US: An Integrative Capstone Course For Professional Practice**

(A-F only; )  
69681 001 LEC, 09:00-11:00 F, Moos Health Sci Tower 2-580, Primarily Online; Michael LuBrant ; 1 cr.

**Multidisciplinary Studies (MDS)****3001W Introduction to Multidisciplinary Studies**

(A-F only; Prereq: Admitted to multidisciplinary studiesWI)  
64463 301 LEC, Completely Online; Lisa Garrett ; 3 cr.

**3093 Directed Study**

(A-F only; Prereq: instr consent)  
64547 401 IND, 00:00-00:00 , Independent/Directed Study; 1-15 cr.

**3101 Project Development**

(A-F only; Prereq: 3001W, MdS major, adviser referral, permission number, basic computer/internet skills)  
69292 301 LEC, Completely Online; 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)  
69293 301 LEC, Completely Online; 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)  
69294 301 LEC, Completely Online; Lisa Garrett ; 3 cr.

**Museum Studies (MST)****5020 Internship**

(S-N or Audit; Prereq: 5011, 5012, dept consent)  
50095 002 FWK, Independent/Directed Study; 1-6 cr.

**Music (MUS)****1013 Rock I: The Historical Origins and Development of Rock Music to 1970**

(A-F or Audit; AH,DSJ)  
54854 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Sarah Weisbrod ; 3 cr.  
55025 001 LEC, 12:20-13:10 MW, Huntington Bank Stad G065A, In Person Term Based; Scott Currie ; 3 cr.  
55026 002 DIS, 08:00-08:50 F, Ferguson Hall 123, In Person Term Based; William Neace ; 3 cr.  
55027 003 DIS, 09:05-09:55 F, Ferguson Hall 123, In Person Term Based; William Neace ; 3 cr.  
55029 005 DIS, 11:15-12:05 F, Ferguson Hall 123, In Person Term Based; Devin Kaveler ; 3 cr.  
55030 006 DIS, 11:15-12:05 F, Ferguson Hall 149, In Person Term Based; Christopher Rochester ; 3 cr.  
55031 007 DIS, 11:15-12:05 F, Ferguson Hall 107, In Person Term Based; Cixian Lu ; 3 cr.  
55032 008 DIS, 12:20-13:10 F, Ferguson Hall 107, In Person Term Based; Christopher Rochester ; 3 cr.  
55033 009 DIS, 12:20-13:10 F, Ferguson Hall 149, In Person Term Based; Quentin Dishman ; 3 cr.  
55034 010 DIS, 13:25-14:15 F, Ferguson Hall 123, In Person Term Based; Quentin Dishman ; 3 cr.  
55035 011 DIS, 13:25-14:15 F, Ferguson Hall 107, In Person Term Based; Cixian Lu ; 3 cr.  
55036 012 DIS, 12:20-13:10 F, Ferguson Hall 105, In Person Term Based; Devin Kaveler ; 3 cr.  
55349 302 LEC, Completely Online; Ryan Picone ; 3 cr.  
55350 303 LEC, Completely Online; Dakota Hall ; 3 cr.  
55351 304 LEC, Completely Online; Momcilo Aleksandric ; 3 cr.  
55587 305 LEC, Completely Online; Cong Liu ; 3 cr.

**1015W Music and Movies: The Use and Representation of Music and Musicians in Film in a Global Context**

(A-F or Audit; WI)  
55071 301 LEC, Completely Online; Leyna Papach ; 4 cr.  
56188 302 LEC, Completely Online; Jordon Goebel ; 4 cr.

**1021 Introduction to Music**

(Student Option; AH)

53349 001 LEC, 13:00-14:15 MW, Ferguson Hall 225, In Person Term Based; Meets With: 001 MUS 3021; Gabriela Currie ; 3 cr.

**1051 Class Piano for Nonmusic Majors I**

(Student Option No Audit; )  
52547 001 LEC, 09:05-09:55 MW, Ferguson Hall 265, In Person Term Based; Michael Min ; 2 cr.  
52548 002 LEC, 12:20-13:10 MW, Ferguson Hall 265, In Person Term Based; Michael Min ; 2 cr.  
52549 003 LEC, 09:05-09:55 TTh, Ferguson Hall 265, In Person Term Based; Michael Min ; 2 cr.

**1052 Class Piano for Non Music Majors II**

(Student Option No Audit; )  
52555 001 LEC, 12:20-13:10 TTh, Ferguson Hall 265, In Person Term Based; Amos Lucidi ; 2 cr.  
69005 002 LEC, 13:25-14:15 TTh, Lab TBA, In Person Term Based; Amos Lucidi ; 2 cr.

**1152 Piano: Class Lessons II**

(A-F or Audit; Prereq: MUS 1151 or instr consent)  
52561 001 LEC, 10:10-11:00 MW, Ferguson Hall 265, In Person Term Based; Michael Min ; 2 cr.  
52562 002 LEC, 11:15-12:05 MW, Ferguson Hall 265, In Person Term Based; Michael Min ; 2 cr.  
52563 003 LEC, 10:10-11:00 TTh, Ferguson Hall 265, In Person Term Based; Koki Sato ; 2 cr.  
52564 004 LEC, 11:15-12:05 TTh, Ferguson Hall 265, In Person Term Based; Koki Sato ; 2 cr.

**1260 Voice Class**

(Student Option; Prereq: Basic musicianship for learning and performing simple songs. In this context, basic musicianship means: 1. Ability to match pitch 2. Ability to repeat and read simple a simple rhythm. 3. Ability to learn a song independently from sheet music.)  
52565 001 LEC, 10:10-11:00 MW, Ferguson Hall 90, In Person Term Based; Elena Zolnick ; 2 cr.  
52566 002 LEC, 18:15-20:00 T, Ferguson Hall 81, In Person Term Based; Mary Kate Hubbard ; 2 cr.  
52567 003 LEC, 18:15-20:00 Th, Ferguson Hall 225, In Person Term Based; Jane Giering-De Haan ; 2 cr.

**1471 Guitar: Class Lessons I**

(A-F or Audit; )  
52694 001 LEC, 13:25-14:15 MW, Ferguson Hall 105, In Person Term Based; Samuel Hines ; 2 cr.  
53192 002 LEC, 14:30-15:20 MW, Ferguson Hall 107, In Person Term Based; Samuel Hines ; 2 cr.  
53473 003 LEC, 15:35-16:25 MW, Ferguson Hall 107, In Person Term Based; Nikola Korovljev ; 2 cr.  
53475 004 LEC, 13:25-14:15 TTh, Ferguson Hall 107, In Person Term Based; Nikola Korovljev ; 2 cr.  
53476 005 LEC, 14:30-15:20 TTh, Ferguson Hall 107, In Person Term Based; Samuel Hines ; 2 cr.

**1472 Guitar: Class Lessons II**

(A-F or Audit; Prereq: 1471 or instr consent)  
53710 001 LEC, 16:40-17:30 MW, Ferguson Hall 107, In Person Term Based; Samuel Hines ; 2 cr.

**1475 Beginning Ukulele**

(A-F only; )  
67912 001 DIS, 16:00-18:00 T, Ferguson Hall 107, In Person Term Based; Maja Radovanlija ; 2 cr.

**1476 Guitar World - guitar and its music, overview of world music styles through guitar related music**

(A-F or Audit; )  
65849 301 LEC, Completely Online; Maja Radovanlija ; 3 cr.

**1502 Theory and Analysis of Tonal Music II**

(A-F or Audit; Prereq: [1501, 1511 with grade of at least C-])  
52597 001 LEC, 08:00-08:50 WF, Ferguson Hall 225, In Person Term Based; Jacob Fitzpatrick ; 2 cr.  
53431 002 DIS, 09:05-09:55 M, Ferguson Hall 105, In Person Term Based; M. Howard ; 2 cr.  
53432 003 DIS, 09:05-09:55 M, Ferguson Hall 107, In Person Term Based; Nicholas White ; 2 cr.  
53433 004 DIS, 09:05-09:55 M, Ferguson Hall 115, In Person Term Based; Matthew Stanley ; 2 cr.  
53434 005 DIS, 09:35-10:25 T, Ferguson Hall 149, In Person Term Based; Matthew Stanley ; 2 cr.

**1512 Ear-Training and Sight-Singing II**

(A-F or Audit; Prereq: [MUS 1501 and MUS 1511] with grades of at least C-)  
53953 001 LEC, 08:00-08:50 M, Ferguson Hall 225, In Person Term Based; Jacob Fitzpatrick ; 1 cr.

53954 002 DIS, 09:05-09:55 W, Ferguson Hall 105, In Person Term Based; Nicholas White ; 1 cr.  
 53955 003 DIS, 09:05-09:55 W, Ferguson Hall 107, In Person Term Based; Elena De Stasio Stabile ; 1 cr.  
 53956 004 DIS, 09:05-09:55 W, Ferguson Hall 115, In Person Term Based; M. Howard ; 1 cr.  
 53957 005 DIS, 09:35-10:25 Th, Ferguson Hall 123, In Person Term Based; M. Howard ; 1 cr.  
 54097 006 DIS, 09:35-10:25 Th, Ferguson Hall 149, In Person Term Based; Nicholas White ; 1 cr.

### 1804 World Music

(Student Option; Prereq: Registration for this course is open until the first day of class, at which point instructor consent will be required.AH,GP)

52749 001 LEC, 11:15-12:30 MW, Ferguson Hall 225, In Person Term Based; Ying Diao ; 3 cr.

### 1914W Music in Nazi Germany & the Holocaust

(Student Option No Audit; CIV,WI)

68570 001 DIS, 13:00-14:15 MW, Ferguson Hall 203, In Person Term Based; Karen Painter ; 3 cr.

### 3021 Introduction to Music

(Student Option; AH)

52709 001 LEC, 13:00-14:15 MW, Ferguson Hall 225, In Person Term Based; Meets With: 001 MUS 1021; Gabriela Currie ; 3 cr.

### 3200 Campus Singers

(Student Option; )

54396 001 LAB, 12:15-13:15 TTh, Ferguson Hall 90, In Person Term Based; Jingqi Zhu ; 2 cr.  
 54397 002 LAB, 18:00-20:00 M, Ferguson Hall 90, In Person Term Based; Ethan Murphy ; 2 cr.

### 3230 Chorus

(Student Option; Prereq: Choral and/or instrumental music background, audition, instr consent)

52591 001 LAB, 15:35-17:05 MW, Ferguson Hall 90, In Person Term Based; Meets With: 001 MUS 5230; Kathy Romey ; 1-2 cr.

### 3262 English Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent registration is required (or allowed) in applied voice)

55227 001 LAB, 11:15-12:05 MW, Ferguson Hall 115, In Person Term Based; Jane Giering-De Haan ; 1 cr.

### 3264 French Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent enroll in applied voice)

67949 001 LAB, 11:15-12:05 TTh, Lab TBA, In Person Term Based; Phillip Zawisza ; 1 cr.

### 3340 Jazz Ensemble

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

52589 001 LAB, 15:35-17:00 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5340; Dean Sorenson ; 1 cr.  
 52590 002 LAB, 11:15-12:05 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 5340; Dean Sorenson ; 1 cr.

### 3350 Jazz Combo

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

52568 001 LAB, 10:10-11:00 MW, Ferguson Hall 3, In Person Term Based; Philip Hey ; 1 cr.  
 52569 002 LAB, 11:15-12:05 MW, Ferguson Hall 3, In Person Term Based; Philip Hey ; 1 cr.  
 52570 003 LAB, 12:20-13:10 MW, Ferguson Hall 3, In Person Term Based; Philip Hey ; 1 cr.

### 3380 Gospel Choir

(A-F only; Prereq: Although no audition is required, all students will be heard privately by the instructor during the first week of class for voice placement in the choir. Additionally, a survey will be taken at the beginning of the semester to assess students' prior musical experiences.)

55583 001 LAB, 18:00-20:00 T, Ferguson Hall 90, In Person Term Based; Adrian Davis ; 2 cr.

### 3400 University and Campus Bands

(Student Option; )

53937 001 LAB, 19:00-20:30 MTh, Ferguson Hall 95, In Person Term Based; Betsy McCann ; 2 cr.  
 53938 002 LAB, 19:00-21:00 M, Huntington Bank Stad G065A, In Person Term Based; John Leonard ; 2 cr.  
 54168 003 LAB, 19:00-21:00 W, Huntington Bank Stad G065A, In Person Term Based; John Leonard, Lauren Visel ; 2 cr.

54618 004 LAB, 19:00-21:00 Th, Huntington Bank Stad G065A, In Person Term Based; John Leonard ; 2 cr.

### 3401 Basic Conducting

(A-F or Audit; Prereq: MUS 1502 (Theory and Analysis of Tonal Music II), music major, music minor, or instructor approval)

52838 001 LEC, 11:15-12:05 M, Ferguson Hall 85, In Person Term Based; Betsy McCann, Jerry Luckhardt ; 2 cr.  
 52839 002 LAB, 11:15-12:05 TTh, Ferguson Hall 85, In Person Term Based; Betsy McCann, Jerry Luckhardt ; 2 cr.  
 52840 003 LAB, 11:15-12:05 WF, Ferguson Hall 85, In Person Term Based; Betsy McCann, Jerry Luckhardt ; 2 cr.

### 3410 University Wind Bands

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

52771 001 LAB, 13:25-15:20 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5410; Emily Threinen, Lauren Visel ; 1 cr.  
 52772 002 LAB, 13:25-15:20 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 5410; Emily Threinen, Lauren Visel, Jerry Luckhardt ; 1 cr.

### 3420 Orchestra

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

52651 001 LAB, 13:25-15:20 MWF, Ferguson Hall 85, In Person Term Based; Meets With: 001 MUS 5420; Mark Russell Smith, Jose Carrillo Silliez, Hisham Groover, Andrew Kim ; 1 cr.  
 55228 002 LAB, In Person Term Based; Mark Russell Smith, Andrew Kim, Jose Carrillo Silliez, Hisham Groover ; 1 cr.

### 3430 Campus Orchestra

(Student Option; Prereq: Non-music major or unable to register for University Orchestra)

54263 001 LAB, 18:00-20:00 M, Ferguson Hall 85, In Person Term Based; Hisham Groover, Andrew Kim ; 2 cr.  
 54532 003 LAB, 18:00-20:00 W, Ferguson Hall 85, In Person Term Based; Andrew Kim ; 2 cr.  
 56375 002 LAB, 18:00-20:00 T, Ferguson Hall 85, In Person Term Based; Hisham Groover, Andrew Kim ; 2 cr.

### 3440 Chamber Ensemble

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

52646 001 LAB, 00:00-00:00 , , In Person Term Based; Ellen Dinwiddie Smith ; 1 cr.  
 52647 002 LAB, 00:00-00:00 , , In Person Term Based ; 1 cr.  
 52648 003 LAB, 16:30-17:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 1 cr.  
 52649 004 LAB, 00:00-00:00 , , In Person Term Based; Thomas Ashworth ; 1 cr.  
 52650 005 LAB, 00:00-00:00 , , In Person Term Based; Immanuel Davis ; 1 cr.  
 56559 006 LAB, In Person Term Based; Maja Radovanlija ; 1 cr.  
 56561 011 LAB, In Person Term Based; Maja Radovanlija ; 1 cr.  
 56594 007 LAB, In Person Term Based ; 1 cr.  
 56595 008 LAB, In Person Term Based ; 1 cr.  
 56596 009 LAB, In Person Term Based; Jennifer Gerth ; 1 cr.  
 56597 010 LAB, In Person Term Based ; 1 cr.  
 56598 012 LAB, In Person Term Based; Marissa Benedict ; 1 cr.  
 56599 013 LAB, In Person Term Based; Sally O'Reilly ; 1 cr.  
 56600 014 LAB, In Person Term Based; Preston Duncan ; 1 cr.  
 56601 015 LAB, In Person Term Based; Preston Duncan ; 1 cr.  
 56602 016 LAB, In Person Term Based; Caroline Lemen ; 1 cr.  
 56603 017 LAB, In Person Term Based; Jean Del Santo ; 1 cr.  
 56604 018 LAB, In Person Term Based; Tanya Remenikova ; 1 cr.  
 56605 019 LAB, In Person Term Based ; 1 cr.  
 56606 020 LAB, In Person Term Based; Paul Shaw ; 1 cr.  
 56607 021 LAB, In Person Term Based ; 1 cr.  
 56608 022 LAB, In Person Term Based; Timothy Lovelace ; 1 cr.  
 56609 023 LAB, In Person Term Based; Korey Konkol ; 1 cr.  
 56610 024 LAB, In Person Term Based; Alexander Braginsky ; 1 cr.  
 56611 025 LAB, In Person Term Based; Norbert Nielubowski ; 1 cr.  
 56678 026 LAB, In Person Term Based; Sangyoon Kim ; 1 cr.

### 3490 Athletics Bands

(A-F or Audit; )

53578 001 LAB, 19:00-21:00 T, Huntington Bank Stad G065A, In Person Term Based; Betsy McCann, John Leonard ; 1 cr.  
 53579 002 LAB, 19:00-21:00 T, Lab TBA, In Person Term Based; Betsy McCann, John Leonard ; 1 cr.  
 53580 003 LAB, 19:00-21:00 T, Lab TBA, In Person Term Based; Betsy McCann, John Leonard ; 1 cr.

### 3601W History of Western Music I

(A-F or Audit; Prereq: MUS 1501 and MUS 1511WI)

52711 001 LEC, 08:00-09:25 TTh, Ferguson Hall 225, In Person Term Based; Kelley Harness ; 3 cr.  
 52712 002 DIS, 09:05-09:55 F, Ferguson Hall 115, In Person Term Based; Corey Lohman ; 3 cr.  
 52713 003 DIS, 09:05-09:55 F, Ferguson Hall 105, In Person Term Based; Anne Briggs ; 3 cr.  
 52714 004 DIS, 10:10-11:00 F, Ferguson Hall 115, In Person Term Based; Corey Lohman ; 3 cr.  
 52715 005 DIS, 10:10-11:00 F, Ferguson Hall 105, In Person Term Based; Anne Briggs ; 3 cr.

### 3603W History of Western Music III

(A-F or Audit; Prereq: [MUS 3602W, MUS 3501, MUS 3511] with grades of at least C- or instr consentWI)

53344 001 LEC, 09:35-11:00 TTh, Ferguson Hall 225, In Person Term Based; Peter Mercer-Taylor ; 3 cr.  
 53345 002 DIS, 08:00-08:50 F, Ferguson Hall 149, In Person Term Based; Patricia Morgan ; 3 cr.  
 53346 004 DIS, 10:10-11:00 F, Ferguson Hall 149, In Person Term Based; Patricia Morgan ; 3 cr.

### 3993 Directed Studies

(A-F or Audit; Prereq: instr consent, dept consent, college consent.)

52654 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)

52656 001 IND, In Person Term Based; 1 cr.

### 4504 Intensive Theory and Analysis of

#### 20th-Century Music

(A-F or Audit; Prereq: [MUS 3501 and MUS 3511 with grades of at least "C-" or instr consent)

54740 001 LEC, 09:05-09:55 WF, Ferguson Hall 225, In Person Term Based; Tiffany Skidmore ; 2 cr.  
 54741 002 LAB, 08:00-08:50 M, Ferguson Hall 105, In Person Term Based; Dominic Valadez ; 2 cr.  
 54742 003 LAB, 08:00-08:50 M, Ferguson Hall 107, In Person Term Based; Daniel Eras Saborio ; 2 cr.  
 54987 004 LAB, 08:35-09:25 T, Ferguson Hall 123, In Person Term Based; Daniel Eras Saborio ; 2 cr.  
 54988 005 LAB, 08:35-09:25 T, Ferguson Hall 105, In Person Term Based; Evan Fraser ; 2 cr.

### 4514 Ear-Training and Sight-Singing for 20th-Century Music

(A-F or Audit; Prereq: [MUS 3501 and MUS 3511 with grade of at least C-] or instr consent)

54743 001 LEC, 09:05-09:55 M, Ferguson Hall 225, In Person Term Based; Tiffany Skidmore ; 1 cr.  
 54744 002 DIS, 08:00-08:50 W, Ferguson Hall 105, In Person Term Based; Dominic Valadez ; 1 cr.  
 54745 003 DIS, 08:00-08:50 W, Ferguson Hall 107, In Person Term Based; Evan Fraser ; 1 cr.  
 54746 004 DIS, 08:35-09:25 Th, Ferguson Hall 105, In Person Term Based; Matthew Abernathy ; 1 cr.  
 54747 005 DIS, 08:35-09:25 Th, Ferguson Hall 107, In Person Term Based; Dominic Valadez ; 1 cr.

### 4715 Marching Band Techniques

(A-F only; )

67924 001 DIS, 17:00-18:30 M, Ferguson Hall 149, In Person Term Based; John Leonard ; 2 cr.

### 5150 Body Awareness in Activity: The Alexander Technique for Musicians

(Student Option; )

54538 001 LAB, 11:15-12:55 Th, Ferguson Hall 81, In Person Term Based; Brian McCullough ; 2 cr.

### 5152 Organ Literature II

(A-F or Audit; Prereq: 3502, 3603, sr or grad or instr consent)

68573 001 LEC, 10:10-12:40 F, Lab TBA, In Person Term Based; Dean Billmeyer ; 3 cr.

### 5230 Chorus

(Student Option; Prereq: Choral and/or instrumental music background; audition, instr consent)

52592 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)

52775 001 LAB, 12:45-14:15 MWF, Ferguson Hall 90, In Person Term Based; Matthew Mehaffey ; 1 cr.  
 54965 002 LAB, 12:45-14:15 MWF, Ferguson Hall 99, In Person Term Based; Kathy Romey ; 1 cr.

**5241 Vocal Literature I****(A-F or Audit; Prereq: [12 cr in MusA 1304, grad music student] or instr consent)**

68698 001 LEC, 13:25-14:15 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 3 cr.

**5250 Opera Workshop and Ensemble****(A-F or Audit; Prereq: audition, instr consent)**

52847 001 LAB, 15:30-16:20 TTh, Lab TBA, In Person Term Based; David Walsh ; 2 cr.

53705 002 LAB, 18:30-21:30 MTh, Lab TBA, 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)**

55530 001 LEC, 10:10-12:05 F, Ferguson Hall 81, In Person Term Based; Philip Zawisza ; 2 cr.

**5276 Vocal Pedagogy II****(A-F or Audit; Prereq: Sr vocal major or instr consent)**

67950 001 DIS, 11:15-12:05 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 3 cr.

**5280 Opera Theatre****(A-F or Audit; Prereq: audition, instr consent)**

53875 001 LAB, 14:30-22:30 Sa, Ferguson Hall 99, 14:30-17:30 MWF, Ferguson Hall 99, In Person Term Based; David Walsh ; 2 cr.

**5336 Jazz Arranging****(A-F or Audit; Prereq: 3502 or instr consent)**

56335 001 LEC, 10:10-11:00 MWF, Ferguson Hall 203, In Person Term Based; Dean Sorenson ; 3 cr.

**5340 Jazz Ensemble****(A-F or Audit; Prereq: audition, instr consent)**

52576 001 LAB, 15:35-17:00 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 3340; Dean Sorenson ; 1 cr.

52577 002 LAB, 11:15-12:05 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 3340; Dean Sorenson ; 1 cr.

**5400 University and Campus Bands****(Student Option; )**

56518 003 LAB, 19:00-21:00 W, Lab TBA, In Person Term Based; Lauren Visel ; 1 cr.

56548 002 LAB, 19:00-21:00 M, Lab TBA, In Person Term Based; John Leonard ; 1 cr.

56554 001 LAB, 19:00-20:30 MTh, Lab TBA, In Person Term Based; Betsy McCann, Lance Sample ; 1 cr.

69418 004 LAB, 19:00-21:00 Th, Lab TBA, In Person Term Based ; 1 cr.

**5410 University Wind Bands****(A-F or Audit; Prereq: audition, instr consent)**

52773 001 LAB, 13:25-15:20 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 3410; Emily Threinen, Lauren Visel ; 1 cr.

52774 002 LAB, 13:25-15:20 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 3410; Emily Threinen, Lauren Visel, Jerry Luckhardt ; 1 cr.

**5420 Orchestra****(A-F or Audit; Prereq: audition, instr consent)**

52798 001 LAB, 13:25-15:20 MWF, Ferguson Hall 85, In Person Term Based; Meets With: 001 MUS 3420; Mark Russell Smith, Jose Carrillo Siliezar, Hisham Groover, Andrew Kim ; 1 cr.

55229 002 LAB, In Person Term Based; Mark Russell Smith, Jose Carrillo Siliezar, Andrew Kim, Hisham Groover ; 1 cr.

**5427 Violin Pedagogy I****(A-F or Audit; Prereq: Violin or viola major or instr consent)**

55588 001 DIS, 08:30-10:00 F, , In Person Term Based; Sally O'Reilly ; 2 cr.

**5440 Chamber Ensemble****(A-F or Audit; Prereq: audition, instr consent)**

52841 001 LAB, 00:00-00:00, , In Person Term Based; Ellen Dinwiddie Smith ; 1 cr.

52842 002 LAB, 00:00-00:00, , In Person Term Based ; 1 cr.

52843 003 LAB, 16:30-17:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 1 cr.

52844 004 LAB, 00:00-00:00, , In Person Term Based; Thomas Ashworth ; 1 cr.

52845 005 LAB, 00:00-00:00, , In Person Term Based; Immanuel Davis ; 1 cr.

56560 006 LAB, In Person Term Based; Maja Radovanlija ; 1 cr.

56562 011 LAB, In Person Term Based; Maja Radovanlija ; 1 cr.

56564 021 LAB, In Person Term Based ; 1 cr.

56612 007 LAB, In Person Term Based ; 1 cr.

56613 008 LAB, In Person Term Based ; 1 cr.

56614 009 LAB, In Person Term Based; Jennifer Gerth ; 1 cr.

56615 010 LAB, In Person Term Based ; 1 cr.

56616 012 LAB, In Person Term Based; Marissa Benedict ; 1 cr.

56617 013 LAB, In Person Term Based; Sally O'Reilly ; 1 cr.

56618 014 LAB, In Person Term Based; Preston Duncan ; 1 cr.

56619 015 LAB, In Person Term Based; Preston Duncan ; 1 cr.

56620 016 LAB, In Person Term Based; Caroline Lemen ; 1 cr.

56621 017 LAB, In Person Term Based; Jean Del Santo ; 1 cr.

56622 018 LAB, In Person Term Based; Tanya Remenikova ; 1 cr.

56623 019 LAB, In Person Term Based ; 1 cr.

56624 020 LAB, In Person Term Based; Paul Shaw ; 1 cr.

56625 022 LAB, In Person Term Based; Timothy Lovelace ; 1 cr.

56626 023 LAB, In Person Term Based; Korey Konkol ; 1 cr.

56627 024 LAB, In Person Term Based; Alexander Braginsky ; 1 cr.

56628 025 LAB, In Person Term Based; Norbert Nielubowski ; 1 cr.

56679 026 LAB, In Person Term Based; Sangyoon Kim ; 1 cr.

**5450 Orchestral Repertoire****(A-F or Audit; Prereq: instr consent)**

56387 001 LAB, 19:30-21:30 Th, Ferguson Hall 90, In Person Term Based; Steven Campbell ; 1-3 cr.

69190 002 LAB, In Person Term Based; Kathy Kienzle ; 1-3 cr.

**5460 World Music Ensemble****(Student Option; )**

54340 001 LAB, 18:00-20:00 W, Ferguson Hall 95, In Person Term Based; Scott Currie ; 1-2 cr.

**5464 Cello Pedagogy****(A-F or Audit; )**

55531 001 LAB, 12:20-13:10 WF, Lab TBA, In Person Term Based; Tanya Remenikova ; 2 cr.

**5466 Guitar Pedagogy****(A-F or Audit; Prereq: Guitar performance major or instr consent)**

56577 001 LEC, 16:00-18:00 T, Lab TBA, In Person Term Based; Maja Radovanlija ; 2 cr.

**5490 Percussion Ensemble****(A-F or Audit; Prereq: instr consent)**

52652 001 LAB, 15:35-17:30 MF, Lab TBA, In Person Term Based; Fernando Meza ; 1 cr.

**5493 Javanese Gamelan Music Ensemble****(Student Option; )**

55230 001 LAB, 16:00-17:30 MW, Lab TBA, In Person Term Based; Lars Christensen ; 1 cr.

**5494 West African Music Ensemble****(Student Option; )**

67952 001 LAB, In Person Term Based; Sowah Mensah ; 1 cr.

**5550 Class Composition for Performers****(A-F or Audit; Prereq: [4504, 4514 [with C- or better]] or instr consent)**

56398 001 LEC, 18:00-21:00 M, Ferguson Hall 123, In Person Term Based; Alex Lubet ; 3 cr.

**5571 Schenkerian Analysis for Performers****(A-F or Audit; Prereq: 3502)**

56359 001 LEC, 12:20-13:10 MWF, Ferguson Hall 123, In Person Term Based; David Damschroder ; 3 cr.

**5592 Music Informatics Seminar****(A-F or Audit; Prereq: 5591 or instr consent)**

56324 001 LEC, 15:00-18:00 Th, , In Person Term Based; Guerino Mazzola ; 3 cr.

**5611 Resources for Music Research****(A-F or Audit; Prereq: 3603)**

55040 001 LEC, 11:15-13:45 Th, Ferguson Hall 105, In Person Term Based; Jessica Abbazio ; 3 cr.

**5805 Worlds of Improvisation****(A-F or Audit; )**

68297 001 LAB, 16:30-19:00 T, Ferguson Hall 225, In Person Term Based; Scott Currie ; 3 cr.

**5950 Topics in Music****(Student Option; )**

66206 001 LEC, 10:00-11:00 MWF, Ferguson Hall 225, In Person Term Based; Guerino Mazzola ; 1-4 cr.

68144 002 LEC, 11:15-12:30 MW, Ferguson Hall 105, In Person Term Based; Gabriela Currie ; 1-4 cr.

68234 003 LEC, 10:10-11:00 W, Ferguson Hall 123, 10:10-11:55 M, Ferguson Hall 123, In Person Term Based; David Damschroder ; 1-4 cr.

69582 005 LEC, 09:45-11:00 MW, Ferguson Hall 205, In Person Term Based; Karen Painter ; 1-4 cr.

**5993 Directed Studies****(Student Option; Prereq: instr consent, dept consent, college consent.)**

52655 001 IND, In Person Term Based; Marissa Benedict ; 1-4 cr.

**Music Applied (MUSA)****1101 Piano: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52575 001 LAB, 00:00-00:00, , In Person Term Based; Amos Lucidi ; 2-4 cr.

53126 002 LAB, 00:00-00:00, , In Person Term Based; Dora Tsang ; 2-4 cr.

53127 003 LAB, 00:00-00:00, , In Person Term Based; Juhee Park ; 2-4 cr.

**1103 Organ: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52598 001 LAB, 00:00-00:00, , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**1104 Voice: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52599 001 LAB, 00:00-00:00, , In Person Term Based; Elena Zolnick ; 2-4 cr.

53130 002 LAB, 00:00-00:00, , In Person Term Based; Mary Kate Hubbard ; 2-4 cr.

53131 003 LAB, 00:00-00:00, , In Person Term Based; Jane Giering-De Haan ; 2-4 cr.

**1105 Violin: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56545 001 LAB, In Person Term Based; Stephanie Arado ; 2-4 cr.

56546 002 LAB, In Person Term Based; Sally O'Reilly ; 2-4 cr.

56547 003 LAB, In Person Term Based; Kyu-Young Kim ; 2-4 cr.

**1107 Cello: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56634 001 LAB, In Person Term Based; Omar Macias ; 2-4 cr.

**1111 Oboe: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56665 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2-4 cr.

**1112 Clarinet: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56631 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2-4 cr.

**1113 Saxophone: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56646 001 LAB, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2-4 cr.

**1114 Bassoon: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

69182 001 LAB, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

**1118 Euphonium: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

56635 001 LAB, In Person Term Based; John Tranter ; 2-4 cr.

**1119 Tuba: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

69203 001 LAB, In Person Term Based; 2-4 cr.

**1121 Percussion: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

69203 001 LAB, In Person Term Based; 2-4 cr.

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

56657 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; ; 2-4 cr.

**1123 Guitar: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52665 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53136 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53482 003 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**1201 Piano: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54738 002 IND, 14:00-15:30 F, Lab TBA, In Person Term Based; Alexander Braginsky ; 2 cr.

54739 003 IND, 13:00-15:00 W, Lab TBA, In Person Term Based; Paul Shaw ; 2 cr.

**1204 Voice: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54682 001 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2 cr.

54683 002 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2 cr.

54684 003 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2 cr.

54685 004 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2 cr.

54686 005 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2 cr.

**1205 Violin: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

56593 001 IND, In Person Term Based; Sally O'Reilly ; 2 cr.

69021 002 IND, In Person Term Based; Stephanie Arado ; 2 cr.

**1206 Viola: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

69023 001 IND, 12:00-13:00 F, Lab TBA, In Person Term Based; Korey Konkol ; 2 cr.

**1207 Cello: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

69026 001 IND, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2 cr.

**1208 Double Bass: Music Education and BA****(A-F only; )**

56524 001 IND, In Person Term Based; Christopher Brown ; 2 cr.

**1209 Flute: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

55104 001 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2 cr.

69028 002 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2 cr.

**1211 Oboe: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54687 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2 cr.

**1212 Clarinet: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54688 002 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2 cr.

56530 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2 cr.

**1213 Saxophone: Music Ed and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

55347 001 IND, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2 cr.

**1214 Bassoon: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54694 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2 cr.

**1215 French Horn: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54689 001 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2 cr.

56532 002 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2 cr.

**1216 Trumpet: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54690 001 IND, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2 cr.

**1217 Trombone: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54691 001 IND, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2 cr.

56556 002 IND, 15:30-16:30 W, Lab TBA, In Person Term Based; John Tranter ; 2 cr.

**1218 Euphonium: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

56365 001 IND, In Person Term Based; John Tranter ; 2 cr.

**1219 Tuba: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54692 001 IND, 18:00-19:00 T, Lab TBA, In Person Term Based; Steven Campbell ; 2 cr.

**1221 Percussion: Music Ed and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

54693 001 IND, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2 cr.

**1223 Guitar: Music Education and BA****(A-F only; Prereq: [Music education or BA applied] major, dept consent)**

56517 001 IND, In Person Term Based; Maja Radovanlija ; 2 cr.

**1301 Piano: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53138 001 LAB, In Person Term Based; Alexander Braginsky ; 2-4 cr.

53139 002 LAB, In Person Term Based; Paul Shaw ; 2-4 cr.

55087 003 LAB, In Person Term Based; Timothy Lovelace ; 2-4 cr.

**1302 Harpsichord: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52721 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**1303 Organ: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52722 001 LAB, 13:25-14:15 T, Lab TBA, In Person Term Based; Dean Billmeyer ; 2-4 cr.

**1304 Voice: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52723 001 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2-4 cr.

53144 002 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2-4 cr.

53145 003 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2-4 cr.

53146 004 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2-4 cr.

53147 005 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2-4 cr.

**1305 Violin: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53156 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Sally O'Reilly ; 2-4 cr.

53157 002 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Stephanie Arado ; 2-4 cr.

**1306 Viola: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52886 001 LAB, 12:00-13:00 F, Lab TBA, In Person Term Based; Korey Konkol ; 2-4 cr.

**1307 Cello: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52887 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2-4 cr.

**1308 Double Bass: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52888 001 LAB, 17:00-18:30 Th, Lab TBA, In Person Term Based; Christopher Brown ; 2-4 cr.

**1309 Flute: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52889 001 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2-4 cr.

53158 002 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.

**1311 Oboe: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52890 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2-4 cr.

**1312 Clarinet: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52891 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2-4 cr.

55300 002 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2-4 cr.

**1313 Saxophone: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53159 001 LAB, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2-4 cr.

**1314 Bassoon: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52892 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

**1315 French Horn: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53166 002 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2-4 cr.

55600 001 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2-4 cr.

**1316 Trumpet: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52893 001 LAB, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2-4 cr.

**1317 Trombone: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52894 001 LAB, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2-4 cr.

**1318 Euphonium: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52895 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; John Tranter ; 2-4 cr.

**1319 Tuba: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52896 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; Steven Campbell ; 2-4 cr.

**1321 Percussion: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52897 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2-4 cr.

53167 002 LAB, 00:00-00:00 , Lab TBA, In Person Term Based; Philip Hey ; 2-4 cr.

**1322 Harp: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52898 001 LAB, 00:00-00:00 , , In Person Term Based; Kathy Kienzle ; 2-4 cr.

**1323 Guitar: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52899 001 LAB, 15:30-17:00 F, Lab 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)**

53010 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53128 002 LAB, In Person Term Based; Timothy Lovelace ; 2-4 cr.

**1403 Organ: Music Major Secondary****(undergraduate)****(A-F or Audit; Prereq: Audition, dept consent)**

53011 001 LAB, 00:00-00:00 , , In Person Term Based; Thomas Ferry ; 2-4 cr.

56680 002 LAB, In Person Term Based; Asako Hirabayashi ; 2-4 cr.

**1404 Voice: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 53012 001 LAB, 00:00-00:00 , , In Person Term Based; Ronnie Bell, Alyssa Becker ; 2-4 cr.  
 53132 002 LAB, 00:00-00:00 , , In Person Term Based; Alyssa Becker ; 2-4 cr.  
 53133 003 LAB, 00:00-00:00 , , In Person Term Based; Jean Del Santo ; 2-4 cr.  
 56549 004 LAB, In Person Term Based; John De Haan, Alyssa Becker ; 2-4 cr.  
 56639 005 LAB, In Person Term Based; Seokho Park ; 2-4 cr.

**1405 Violin: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 53013 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**1406 Viola: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 55359 001 LAB, In Person Term Based; Corey Konkol ; 2-4 cr.

**1409 Flute: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 56687 001 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.

**1414 Bassoon: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 54535 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

**1421 Percussion: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 54853 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; ; 2-4 cr.

**1423 Guitar: Music Major Secondary (undergraduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
 53015 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.  
 53137 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.  
 53483 003 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**1904 Voice: Music Major Transfer**

(A-F or Audit; Prereq: Audition, dept consent)  
 56623 001 LAB, In Person Term Based; John De Haan ; 2-4 cr.  
 56629 002 LAB, In Person Term Based; Philip Zawisza ; 2-4 cr.

**1909 Flute: Music Major Transfer**

(A-F or Audit; Prereq: Audition, dept consent)  
 56583 001 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.

**1915 French Horn: Music Major Transfer**

(A-F or Audit; Prereq: Audition, dept consent)  
 56637 001 LAB, In Person Term Based; Caroline Lemen ; 2-4 cr.

**1916 Trumpet: Music Major Transfer**

(A-F or Audit; Prereq: Audition, dept consent)  
 56566 001 LAB, In Person Term Based; Marissa Benedict ; 2-4 cr.

**1921 Percussion: Music Major Transfer**

(A-F or Audit; Prereq: Audition, dept consent)  
 56689 001 LAB, In Person Term Based; Fernando Meza ; 2-4 cr.

**2201 Piano: Music Ed and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
 55324 003 IND, In Person Term Based; Paul Shaw ; 2 cr.

**2203 Organ: Music Education and BA**

(A-F only; Prereq: dept consent)  
 56553 001 IND, In Person Term Based; Dean Billmeyer ; 2 cr.

**2204 Voice: Music Education and BA**

(A-F only; Prereq: dept consent)

54733 001 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2 cr.  
 54734 002 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2 cr.  
 54735 003 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2 cr.  
 54736 004 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2 cr.  
 54737 005 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2 cr.

**2205 Violin: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55606 001 IND, In Person Term Based; Sally O'Reilly ; 2 cr.  
 69022 002 IND, In Person Term Based; Stephanie Arado ; 2 cr.

**2206 Viola: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55619 001 IND, 12:00-13:00 F, Lab TBA, In Person Term Based; Corey Konkol ; 2 cr.

**2207 Cello: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55335 001 IND, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2 cr.

**2208 Bass: Music Education and BA**

(A-F only; Prereq: dept consent)  
 56580 001 IND, In Person Term Based; Christopher Brown ; 2 cr.

**2209 Flute: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55322 001 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2 cr.  
 69029 002 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2 cr.

**2211 Oboe: Music Education and BA**

(A-F only; Prereq: dept consent)  
 68492 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2 cr.

**2212 Clarinet: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55001 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2 cr.  
 55631 002 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2 cr.

**2213 Saxophone: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55615 001 IND, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2 cr.

**2214 Bassoon: Music Education and BA**

(A-F only; Prereq: dept consent)  
 68482 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2 cr.

**2215 French Horn: Music Education and BA**

(A-F only; Prereq: dept consent)  
 56459 001 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2 cr.  
 68489 002 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2 cr.

**2216 Trumpet: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55356 001 IND, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2 cr.

**2217 Trombone: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55621 001 IND, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2 cr.

**2218 Euphonium: Music Education and BA**

(A-F only; Prereq: dept consent)  
 69529 001 IND, In Person Term Based; John Tranter ; 2 cr.

**2219 Tuba: Music Education and BA**

(A-F only; Prereq: dept consent)  
 69033 001 IND, In Person Term Based; Steven Campbell ; 2 cr.

**2221 Percussion: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55601 001 IND, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2 cr.  
 69378 002 IND, In Person Term Based; Philip Hey ; 2 cr.

**2222 Harp: Music Education and BA**

(A-F only; Prereq: dept consent)  
 55602 001 IND, In Person Term Based; Kathy Kienzle ; 2 cr.

**2223 Guitar: Music Education and BA**

(A-F only; Prereq: dept consent)  
 56575 001 IND, In Person Term Based; Maja Radovanlija ; 2 cr.

**2301 Piano: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53310 001 LAB, 16:30-18:00 T, Lab TBA, In Person Term Based; Alexander Braginsky ; 2-4 cr.  
 53311 002 LAB, 16:30-18:00 T, Lab TBA, In Person Term Based; Paul Shaw ; 2-4 cr.  
 55341 003 LAB, 12:30-14:30 M, Lab TBA, In Person Term Based; Timothy Lovelace ; 2-4 cr.

**2302 Harpsichord: Music Major**

(A-F or Audit; Prereq: Audition, instr consent)  
 53312 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**2303 Organ: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53313 001 LAB, 13:25-14:15 T, Lab TBA, In Person Term Based; Dean Billmeyer ; 2-4 cr.

**2304 Voice: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53314 001 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2-4 cr.  
 53315 002 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2-4 cr.  
 53316 003 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2-4 cr.  
 53317 004 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2-4 cr.  
 53318 005 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2-4 cr.

**2305 Violin: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53319 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Sally O'Reilly ; 2-4 cr.  
 53320 002 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Stephanie Arado ; 2-4 cr.

**2306 Viola: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53321 001 LAB, 12:00-13:00 , , In Person Term Based; Corey Konkol ; 2-4 cr.

**2307 Cello: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53322 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2-4 cr.

**2308 Double Bass: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53323 001 LAB, 17:00-18:30 Th, Lab TBA, In Person Term Based; Christopher Brown ; 2-4 cr.

**2309 Flute: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53324 001 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2-4 cr.  
 53325 002 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.

**2311 Oboe: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53326 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2-4 cr.

**2312 Clarinet: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53327 001 LAB, 15:35-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2-4 cr.  
 56384 002 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2-4 cr.

**2313 Saxophone: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53328 001 LAB, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2-4 cr.

**2314 Bassoon: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
 53329 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2-4 cr.  
 69032 002 LAB, In Person Term Based; Fei Xie ; 2-4 cr.

**2315 French Horn: Music Major**

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

53330 002 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2-4 cr.

56519 003 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2-4 cr.

**2316 Trumpet: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53331 001 LAB, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2-4 cr.

**2317 Trombone: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53332 001 LAB, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2-4 cr.

**2318 Euphonium: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53335 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; John Tranter ; 2-4 cr.

**2319 Tuba: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53334 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; Steven Campbell ; 2-4 cr.

**2321 Percussion: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53335 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2-4 cr.

53336 002 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Phillip Hey ; 2-4 cr.

**2322 Harp: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53337 001 LAB, 00:00-00:00 , , In Person Term Based; Kathy Kienzle ; 2-4 cr.

**2323 Guitar: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53338 001 LAB, 15:30-17:00 F, Lab TBA, In Person Term Based; Maja Radovanlija ; 2-4 cr.

**3101 Piano: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

53667 001 LAB, 00:00-00:00 , , In Person Term Based; Amos Lucidi ; 2-4 cr.

53876 002 LAB, 00:00-00:00 , , In Person Term Based; Dora Tsang ; 2-4 cr.

53877 003 LAB, 00:00-00:00 , , In Person Term Based; Juhee Park ; 2-4 cr.

56630 004 LAB, In Person Term Based; Paul Shaw ; 2-4 cr.

**3103 Organ: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52692 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**3104 Voice: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

53586 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53878 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53879 003 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53880 004 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**3105 Violin: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

53134 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53480 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**3121 Percussion: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52705 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

53135 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**3123 Guitar: Elective (non-major in music)****(A-F or Audit; Prereq: dept consent)**

52706 001 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

54091 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

54092 003 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**3201 Piano: Music Ed and BA****(A-F only; )**

55312 003 IND, 13:00-15:00 W, Lab TBA, In Person Term Based; Paul Shaw ; 2 cr.

**3204 Voice: Music Education and BA****(A-F only; )**

54722 001 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2 cr.

54723 002 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2 cr.

54724 003 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2 cr.

54725 004 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2 cr.

54726 005 IND, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2 cr.

**3205 Violin: Music Education and BA****(A-F only; )**

55313 002 IND, 15:30-18:30 Th, Lab TBA, In Person Term Based; Stephanie Arado ; 2 cr.

55617 001 IND, In Person Term Based; Sally O'Reilly ; 2 cr.

**3206 Viola: Music Education and BA****(A-F only; )**

69024 001 IND, 12:00-13:00 F, Lab TBA, In Person Term Based; Korey Konkol ; 2 cr.

**3207 Cello: Music Education and BA****(A-F only; )**

69027 001 IND, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2 cr.

**3209 Flute: Music Education and BA****(A-F only; )**

55597 001 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2 cr.

69030 002 IND, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2 cr.

**3211 Oboe: Music Education and BA****(A-F only; )**

55599 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2 cr.

**3212 Clarinet: Music Education and BA****(A-F only; )**

55323 001 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2 cr.

55346 002 IND, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2 cr.

**3213 Saxophone: Music Education and BA****(A-F only; )**

55299 001 IND, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2 cr.

**3214 Bassoon: Music Education and BA****(A-F only; )**

68483 001 IND, 15:30-16:30 , , In Person Term Based; Norbert Nielubowski ; 2 cr.

**3215 French Horn: Music Education and BA****(A-F only; )**

55355 001 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2 cr.

68490 002 IND, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2 cr.

**3216 Trumpet: Music Education and BA****(A-F only; )**

56411 001 IND, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2 cr.

**3217 Trombone: Music Education and BA****(A-F only; )**

56364 001 IND, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2 cr.

**3219 Tuba: Music Education and BA****(A-F only; )**

69034 001 IND, In Person Term Based; Steven Campbell ; 2 cr.

**3221 Percussion: Music Education and BA****(A-F only; )**

56436 001 IND, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2 cr.

69379 002 IND, In Person Term Based; Phillip Hey ; 2 cr.

**3222 Harp: Music Education and BA****(A-F only; )**

54999 001 IND, 00:00-00:00 , , In Person Term Based; Kathy Kienzle ; 2 cr.

**3223 Guitar: Music Education and BA****(A-F only; Prereq: Audition, dept consent)**

55345 001 LAB, 15:30-17:00 F, Lab TBA, In Person Term Based; Maja Radovanlija ; 2 cr.

**3301 Piano: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53140 001 LAB, 16:30-18:00 T, Lab TBA, In Person Term Based; Alexander Braginsky ; 2-4 cr.

53141 002 LAB, 16:30-18:00 T, Lab TBA, In Person Term Based; Paul Shaw ; 2-4 cr.

55629 003 LAB, In Person Term Based; Timothy Lovelace ; 2-4 cr.

**3302 Harpsichord: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52900 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**3303 Organ: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52901 001 LAB, 13:25-14:15 T, Lab TBA, In Person Term Based; Dean Billmeyer ; 2-4 cr.

55596 002 LAB, In Person Term Based; Thomas Ferry ; 2-4 cr.

**3304 Voice: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52902 001 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Stanford Felix ; 2-4 cr.

53148 002 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Victoria Vargas ; 2-4 cr.

53149 003 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Jane Giering-De Haan ; 2-4 cr.

53150 004 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; John De Haan ; 2-4 cr.

53151 005 LAB, 14:30-15:30 TTh, Lab TBA, In Person Term Based; Philip Zawisza ; 2-4 cr.

**3305 Violin: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

53160 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Sally O'Reilly ; 2-4 cr.

54368 002 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Stephanie Arado ; 2-4 cr.

56466 003 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Kyu-Young Kim ; 2-4 cr.

**3306 Viola: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52936 001 LAB, In Person Term Based; Korey Konkol ; 2-4 cr.

**3307 Cello: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52937 001 LAB, 15:30-18:30 Th, Lab TBA, In Person Term Based; Tanya Remenikova ; 2-4 cr.

**3308 Double Bass: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52938 001 LAB, 17:00-18:30 Th, Lab TBA, In Person Term Based; Christopher Brown ; 2-4 cr.

**3309 Flute: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52939 001 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Julia Bogorad ; 2-4 cr.

53164 002 LAB, 15:35-17:00 M, Lab TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.

**3311 Oboe: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52940 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Christine Kim ; 2-4 cr.

**3312 Clarinet: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52941 003 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Sangyoon Kim ; 2-4 cr.

56586 002 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Jennifer Gerth ; 2-4 cr.

**3313 Saxophone: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52942 001 LAB, 15:35-16:30 M, Lab TBA, In Person Term Based; Preston Duncan ; 2-4 cr.

**3314 Bassoon: Music Major****(A-F or Audit; Prereq: Audition, dept consent)**

52943 001 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

55000 002 LAB, 15:30-16:30 M, Lab TBA, In Person Term Based; Fei Xie ; 2-4 cr.

**3315 French Horn: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
53168 001 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Caroline Lemen ; 2-4 cr.  
55594 002 LAB, 15:35-17:30 M, Lab TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2-4 cr.

**3316 Trumpet: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52944 001 LAB, 15:35-17:30 W, Lab TBA, In Person Term Based; Marissa Benedict ; 2-4 cr.

**3317 Trombone: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52945 001 LAB, 15:30-16:30 W, Lab TBA, In Person Term Based; Thomas Ashworth ; 2-4 cr.

**3318 Euphonium: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52946 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; John Tranter ; 2-4 cr.

**3319 Tuba: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52947 001 LAB, 18:00-19:00 T, Lab TBA, In Person Term Based; Steven Campbell ; 2-4 cr.

**3321 Percussion: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52948 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2-4 cr.  
53170 002 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Philip Hey ; 2-4 cr.

**3322 Harp: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52949 001 LAB, 00:00-00:00 , , In Person Term Based; Kathy Kienzie ; 2-4 cr.

**3323 Guitar: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
52950 001 LAB, 15:30-17:00 F, Lab 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)  
52710 001 LAB, 00:00-00:00 , , In Person Term Based; Timothy Lovelace ; 2 cr.

**5103 Organ: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
52716 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2 cr.

**5104 Voice: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
52717 001 LAB, 00:00-00:00 , , In Person Term Based; ; 2 cr.  
56589 002 LAB, In Person Term Based; ; 2 cr.

**5105 Violin: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
52718 001 LAB, 00:00-00:00 , , In Person Term Based; 2 cr.  
53161 002 LAB, 00:00-00:00 , , In Person Term Based; 2 cr.

**5106 Viola: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
69025 001 LAB, In Person Term Based; Korey Konkol ; 2 cr.

**5121 Percussion: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
52719 001 LAB, 00:00-00:00 , , In Person Term Based; 2 cr.

**5123 Guitar: Elective (graduate non-major in music)**

(A-F or Audit; Prereq: dept consent)  
52720 001 LAB, 00:00-00:00 , , In Person Term Based; 2 cr.

**5401 Piano: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53016 001 LAB, 00:00-00:00 , , In Person Term Based; Paul Shaw ; 2-4 cr.

**5403 Organ: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53054 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**5404 Voice: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53055 001 LAB, 00:00-00:00 , , In Person Term Based; Wendy Zaro-Mullins ; 2-4 cr.  
56672 002 LAB, In Person Term Based; Philip Zawisza ; 2-4 cr.

**5405 Violin: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53056 001 LAB, 00:00-00:00 , , In Person Term Based; Kyu-Young Kim ; 2-4 cr.

**5414 Bassoon: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
56555 001 LAB, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

**5421 Percussion: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53058 001 LAB, 15:30-17:30 W, Lab TBA, In Person Term Based; Fernando Meza ; 2-4 cr.

**5423 Guitar: Music Major Secondary (graduate)**

(A-F or Audit; Prereq: Audition, dept consent)  
53171 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.

**Music Education (MUED)****1201 Introduction to Music Education**

(A-F only; )  
67926 001 LEC, 11:15-12:05 MW, Ferguson Hall 90, In Person Term Based; Adrian Davis ; 2 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)  
54261 001 LAB, 08:00-08:50 MW, Ferguson Hall 90, In Person Term Based; Todd Schwartzberg ; 2 cr.

**3807 Percussion Techniques for Music Therapists**

(A-F or Audit; )  
54346 001 LEC, 12:20-13:10 TTh, Ferguson Hall 151, In Person Term Based; Stephen Thompson ; 2 cr.

**4418 Style, Pedagogy, and Diction in the Choral Music Classroom II**

(A-F only; Prereq: two semesters of applied lessons at college level)  
56354 001 LAB, 13:25-14:15 TTh, Lab TBA, In Person Term Based; ; 2 cr.

**4502 String Techniques and Teaching**

(A-F or Audit; )  
55535 001 LEC, 10:10-11:00 MWF, Ferguson Hall 95, In Person Term Based; Ed Schaeffe ; 2 cr.

**4503 Woodwind Techniques and Teaching**

(A-F or Audit; )  
55536 001 LEC, 12:20-13:10 MWF, Ferguson Hall 95, In Person Term Based; Emily Brewer ; 2 cr.

**5301 General Music I**

(A-F or Audit; Prereq: MUED 1201, MUS 4504, MUS 4514, [music education major or instr consent], successful completion of soph proficiency exam)  
54128 001 LEC, 08:00-09:45 TTh, Ferguson Hall 115, In Person Term Based; Akosua Addo ; 3 cr.

**5350 Student Teaching in Classroom Music**

(A-F or Audit; )  
52703 001 FWK, 00:00-00:00 , , In Person Term Based; Akosua Addo ; 4-8 cr.

**5415 Choral/Vocal Methods and Materials I**

(A-F only; Prereq: MUED 1201, MUS 4504, MUS 4514, [music education major or instr consent], successful completion of soph proficiency exam)

54560 001 LAB, 10:00-11:45 TTh, Ferguson Hall 107, In Person Term Based; David Kassler ; 3 cr.

**5450 Student Teaching in Vocal Music**

(A-F or Audit; )  
52702 001 FWK, 00:00-00:00 , , In Person Term Based; David Kassler ; 4-8 cr.

**5516 Instrumental Methods and Materials I**

(A-F only; Prereq: MUED 1201, MUS 4504, and MUS 4514 with a grade of C- or better, music education major, successful completion of Music Education sophomore proficiency exam)  
54561 001 LEC, 11:15-13:00 TTh, Lab TBA, In Person Term Based; Adrian Davis ; 3 cr.

**5550 Student Teaching in Instrumental Music**

(A-F or Audit; )  
52571 001 FWK, 00:00-00:00 , , In Person Term Based; Adrian Davis ; 4-8 cr.

**5650 Student Teaching Seminar**

(A-F or Audit; Prereq: At least C- in all required [music, music education, professional education] courses)  
53430 001 LEC, 16:30-17:45 T, Ferguson Hall 105, In Person Term Based; Casey Clementson ; 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)  
54166 001 LAB, 11:15-12:45 TTh, Ferguson Hall 149, In Person Term Based; Todd Schwartzberg ; 3 cr.

**5805 Music Therapy Methods and Procedures II**

(A-F only; Prereq: 5804 or instr consent)  
54167 001 LEC, 09:05-09:55 MWThF, Ferguson Hall 151, In Person Term Based; Michael Silverman ; 2 cr.

**5806 Career Preparation**

(A-F or Audit; Prereq: 5805 or instr consent)  
53009 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)  
56299 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)  
53124 001 FWK, 00:00-00:00 , , 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)  
52653 001 IND, 00:00-00:00 , , In Person Term Based; Michael Silverman, Elijah Levy ; 1-4 cr.

**Naval Science (NAV)****1000 Professional Training in Naval Science**

(S-N or Audit; Prereq: enrolled in NROTC)  
64750 001 LAB, 06:15-08:50 T, Armory Building 100, In Person Term Based; Meets With: 001 NAV 3000001 NAV 2000001 NAV 4000; Austin Duke ; 1 cr.

**1102 Seapower and Maritime Affairs**

(A-F or Audit; )  
64745 001 LEC, 15:45-17:00 F, Armory Building 116, 09:00-10:15 T, Armory Building 116, In Person Term Based; 3 cr.

**2000 Professional Training in Naval Science**

(S-N or Audit; Prereq: Soph enrolled in NROTC)  
64751 001 LAB, 06:15-08:50 T, Armory Building 100, In Person Term Based; Meets With: 001 NAV 3000001 NAV 1000001 NAV 4000; Austin Duke ; 1 cr.

**2202 Ship Systems II: Science and Technology in Naval Weapons Systems**

(A-F or Audit; )  
64774 001 LEC, 13:30-14:45 F, Armory Building 202, 11:15-12:30 M, Armory Building 202, In Person Term Based; Macian Campbell ; 3 cr.



Ctr 2-132, 13:25-15:20 F, Health Sciences Edu Ctr 2-132, 13:25-15:20 F, Health Sciences Edu Ctr 2-132, 13:25-15:20 F, Health Sciences Edu Ctr 2-132, In Person Term Based; Mary Goering ; 2 cr.  
 63790 003 LEC, 13:25-15:20 T, University Square ITV Room 322, 13:25-15:20 T, University Square ITV Room 397, 13:25-15:20 T, University Square ITV Room 322, 13:25-15:20 T, University Square ITV Room 322, 13:25-15:20 T, University Square ITV Room 397, 13:25-15:20 T, University Square ITV Room 397, 13:25-15:20 T, University Square ITV Room 397, 13:25-15:20 T, University Square ITV Room 322, In Person Term Based; Carol Flaten, Christine Mueller ; 2 cr.

#### 4205V Honors: Nursing Theory and Research

(Student Option; Prereq: Nurs honorsWI)  
 63571 001 LEC, 09:05-12:05 T, Weaver-Densford Hall 6-108, In Person Term Based; Mary Whipple ; 3 cr.

#### 4205W Nursing Theory and Research

(A-F or Audit; Prereq: Undergrad in nursingWI)  
 63572 001 LEC, 09:05-12:05 T, Health Sciences Edu Ctr 3-110, In Person Term Based; Laura Kirk ; 3 cr.  
 63590 004 LEC, 09:05-12:05 T, University Square ITV Room 322, In Person Term Based; Kasey Boehmer ; 3 cr.  
 68306 002 LEC, 09:05-12:05 T, Weaver-Densford Hall W2-110, In Person Term Based; Eunice Areba ; 3 cr.  
 68307 003 LEC, 09:05-12:05 T, Weaver-Densford Hall W2120, In Person Term Based; Mary Fran Tracy ; 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)  
 63599 001 LEC, 13:25-17:30 T, Health Sciences Edu Ctr 2-138, In Person Term Based; Mary Steffes, Barbara Champlin ; 4 cr.  
 69675 002 LEC, 13:25-17:30 T, , In Person Term Based; Barbara Champlin, 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)  
 63601 001 FWK, 07:00-15:30 Th, No Room Required, 07:00-15:30 Th, No Room Required, In Person Term Based; 3 cr.  
 63605 002 FWK, 07:00-15:30 Th, No Room Required, 07:00-15:30 Th, No Room Required, In Person Term Based; 3 cr.  
 63606 003 FWK, 07:00-15:30 F, No Room Required, 07:00-15:30 F, No Room Required, In Person Term Based; 3 cr.  
 63607 004 FWK, 07:00-15:30 F, No Room Required, 07:00-15:30 F, No Room Required, In Person Term Based; 3 cr.  
 63608 005 FWK, 07:00-15:30 F, No Room Required, 07:00-15:30 F, No Room Required, In Person Term Based; Barbara Champlin ; 3 cr.  
 63609 006 FWK, 07:00-15:30 F, No Room Required, 07:00-15:30 F, No Room Required, In Person Term Based; Barbara Champlin ; 3 cr.  
 63714 007 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Alexander Thompson, Rebecca Brown ; 3 cr.  
 63793 008 FWK, 07:00-15:30 Th, No Room Required, 07:00-15:30 Th, No Room Required, In Person Term Based; 3 cr.  
 63794 009 FWK, 07:00-15:30 Th, No Room Required, 07:00-15:30 Th, No Room Required, In Person Term Based; 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)  
 63602 001 FWK, 07:00-15:30 Th, No Room Required, 08:00-15:00 Th, Phillips-Wangenstn Bldg 2-362, In Person Term Based; Eunice Areba ; 3 cr.  
 63603 002 FWK, 08:00-15:00 Th, Phillips-Wangenstn Bldg 2-362, 07:00-15:30 Th, No Room Required, In Person Term Based; Eunice Areba ; 3 cr.  
 63610 003 FWK, 07:00-15:30 Th, No Room Required, 08:00-15:00 Th, Phillips-Wangenstn Bldg 3-102, In Person Term Based; Lisa Martin ; 3 cr.  
 63611 004 FWK, 08:00-15:00 Th, Phillips-Wangenstn Bldg 2-366, 07:00-15:30 Th, No Room Required, In Person Term Based; Lisa Martin ; 3 cr.  
 63612 005 FWK, 07:00-15:30 F, No Room Required, 08:00-15:00 F, Phillips-Wangenstn Bldg 2-364, In Person Term Based; 3 cr.  
 63614 009 FWK, 07:00-15:30 Th, No Room Required, 08:00-15:00 Th, University Square ITV Room 397, In Person Term Based; Nasra Giama ; 3 cr.

63715 010 FWK, 08:00-15:00 Th, University Square ITV Room 397, 07:00-15:30 Th, No Room Required, In Person Term Based; Nasra Giama ; 3 cr.  
 63776 007 FWK, 07:00-15:30 F, No Room Required, 08:00-15:00 F, Phillips-Wangenstn Bldg 2-360, In Person Term Based; 3 cr.  
 63796 006 FWK, 08:00-15:00 F, Phillips-Wangenstn Bldg 2-364, 07:00-15:30 F, No Room Required, In Person Term Based; 3 cr.  
 63797 011 FWK, 07:00-15:30 F, No Room Required, 08:00-15:00 F, University Square ITV Room 397, In Person Term Based; 3 cr.  
 63798 012 FWK, 08:00-15:00 F, Phillips-Wangenstn Bldg 2-360, 07:00-15:30 F, No Room Required, In Person Term Based; 3 cr.

#### 4312 Patient Centered Care: Nursing Care of Families II

(A-F only; Prereq: 3802, enrolled nursing student)  
 63600 001 LEC, 08:00-12:05 W, Health Sciences Edu Ctr 2-132, In Person Term Based; Ashley Walker, Samantha Sommersness ; 4 cr.  
 63604 002 LEC, 08:00-12:05 W, University Square ITV Room 397, In Person Term Based; Samantha Sommersness, Ashley Walker ; 4 cr.

#### 4321 Public Health Nursing

(A-F or Audit; Prereq: jr nursing student)  
 63597 001 LEC, 13:25-15:20 W, Health Sciences Edu Ctr 2-138, In Person Term Based; Nasra Giama, Melissa Horning ; 2 cr.  
 63598 002 LEC, 13:25-15:20 W, University Square ITV Room 322, In Person Term Based; Nasra Giama, Melissa Horning ; 2 cr.

#### 4705 Nursing Care Across the Lifespan II

(A-F or Audit; Prereq: 4703, sr in good standing in BSN)  
 63641 001 LEC, 09:05-11:00 T, Health Sci Ed Ctr 2132/2138, In Person Term Based; Ashley Walker, Mary Steffes ; 2 cr.  
 63788 002 LEC, 09:05-11:00 T, University Square ITV Room 397, In Person Term Based; Mary Steffes, Ashley Walker, Jennifer Elmer ; 2 cr.

#### 4707 Nursing Leadership: Professional Practice in Complex Systems

(A-F only; Prereq: Sr enrolled in BSN program)  
 63640 001 LEC, 13:25-15:20 T, Health Sciences Edu Ctr 3-150, 13:25-15:20 T, Health Sciences Edu Ctr 7-150, 13:25-15:20 T, Health Sciences Edu Ctr 7-150, In Person Term Based; Stephanie Gingerich ; 2 cr.  
 63644 002 LEC, 13:25-15:20 T, University Square ITV Room 397, 13:25-15:20 T, University Square ITV Room 397, In Person Term Based; Stephanie Gingerich ; 2 cr.

#### 4708 Nursing Care Across the Lifespan Practicum II

(A-F only; Prereq: BSN Student)  
 69056 001 FWK, 11:15-13:10 T, Moos Health Sci Tower 1-450, 11:15-13:10 T, Moos Health Sci Tower 2-580, 13:25-15:20 T, Moos Health Sci Tower 2-580, 11:15-13:10 T, Moos Health Sci Tower 2-580, 11:15-13:10 T, Moos Health Sci Tower 2-580, 13:25-15:20 T, Moos Health Sci Tower 2-580, 11:15-13:10 T, Moos Health Sci Tower 2-580, 13:25-15:20 T, Moos Health Sci Tower 2-580, In Person Term Based; Megan Voss ; 4 cr.  
 69209 002 FWK, 11:15-13:10 T, AHC ROOM TBA, 11:15-13:10 T, Health Sci Ed Ctr 4103/4105, In Person Term Based; 4 cr.  
 69210 003 FWK, 11:15-13:10 T, AHC ROOM TBA, 11:15-13:10 T, Health Sciences Edu Ctr 2-132, In Person Term Based; Donna Eull ; 4 cr.  
 69211 004 FWK, 11:15-13:10 T, AHC ROOM TBA, 11:15-13:10 T, Moos Health Sci Tower 1-451, In Person Term Based; 4 cr.  
 69212 005 FWK, 11:15-13:10 T, AHC ROOM TBA, 11:15-13:10 T, Moos Health Sci Tower 2-118, In Person Term Based; 4 cr.  
 69213 007 FWK, 11:15-13:10 T, University Square ITV Room 397, 11:15-13:10 T, University Square ITV Room 397, In Person Term Based; Linnea Benike ; 4 cr.

#### 5031 Human Response to Health and Illness: Adults and Elders

(A-F or Audit; )  
 63549 001 LEC, 13:25-16:25 Th, Health Sciences Edu Ctr 2-132, In Person Term Based; Sasha Skendzel, Erica Schorr ; 4 cr.  
 63552 002 FWK, 07:00-15:30 T, No Room Required, In Person Term Based; 4 cr.  
 63553 003 FWK, 07:00-15:30 T, No Room Required, In Person Term Based; 4 cr.

63554 004 FWK, 07:00-15:30 T, No Room Required, In Person Term Based; 4 cr.  
 63555 005 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.  
 63560 006 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.  
 63561 007 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.  
 63582 008 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.  
 63591 009 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.  
 63724 010 FWK, 07:00-15:30 W, No Room Required, In Person Term Based; 4 cr.

#### 5032 Human Response to Health and Illness: Children and Childbearing Families

(A-F or Audit; )  
 63550 001 LEC, 09:05-12:05 Th, Health Sciences Edu Ctr 2-132, In Person Term Based; Stephanie Delkoski, Donna Eull ; 5 cr.  
 63551 002 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; 5 cr.  
 63556 003 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; 5 cr.  
 63557 004 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; 5 cr.  
 63558 005 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Arielle Skalisky ; 5 cr.  
 63562 006 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Arielle Skalisky ; 5 cr.  
 63563 007 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Arielle Skalisky ; 5 cr.  
 63583 008 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; 5 cr.  
 63592 009 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; 5 cr.  
 63725 010 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; 5 cr.

#### 5115 Interprofessional Health Care Informatics

(A-F or Audit; )  
 63567 001 LEC, Completely Online; Chih-Lin Chi, Lisiane Pruinelli ; 3 cr.

#### 5225 Psychopharmacology Advanced Practice Psychiatric/Mental Health Nursing

(A-F only; Prereq: 5228 or instr consent)  
 63584 001 LEC, 08:00-09:55 W, Health Sciences Edu Ctr 2-101AB, 08:00-09:55 W, Health Sciences Edu Ctr 2-101AB, 08:00-09:55 W, Health Sciences Edu Ctr 2-101AB, 08:00-09:55 W, Health Sciences Edu Ctr 2-101AB, 08:00-09:55 W, Health Sciences Edu Ctr 2-101AB, Primarily Online; Elena Geiger-Simpson, kara nachtsheim, Julie LaRose ; 3 cr.

#### 5226 Advanced Human Pathophysiology

(A-F or Audit; )  
 63733 001 LEC, 08:00-09:55 M, Twin Cities Remote, Completely Online; Ryan Mays ; 2 cr.  
 63734 002 LEC, 11:15-13:10 T, Twin Cities Remote, Completely Online; Ryan Mays ; 2 cr.  
 63735 003 LEC, 11:15-13:10 F, Twin Cities Remote, Completely Online; Ryan Mays ; 2 cr.

#### 5229 Clinical Pharmacotherapeutics

(A-F only; Prereq: 5222, [5228 or PHAR 5800], DNP student, instr consent)  
 63574 001 LEC, 08:00-11:00 M, , 08:00-11:00 Th, Mayo Bldg & Additions 3-100, 08:00-11:00 Th, Mayo Bldg & Additions 3-100, Primarily Online; Mary Benbenek, Natya Stroud, Sarah Brumberg ; 3-4 cr.

#### 5230 Pharmacotherapeutics for Nurse Anesthetia

(A-F only; )  
 63740 001 LEC, 08:00-12:00 T, ONLINE BLENDED, 08:00-12:00 T, ONLINE BLENDED, 07:45-13:00 T, Weaver-Densford Hall 6-194, 08:00-12:00 T, ONLINE BLENDED, 08:00-12:00 T, ONLINE BLENDED, 07:45-13:00 T, Weaver-Densford Hall 6-194, 08:00-12:00

T, ONLINE BLENDED, 07:45-13:00 T, Weaver-Densford Hall 6-194, 08:00-12:00 T, ONLINE BLENDED, 08:00-12:00 T, ONLINE BLENDED, 07:45-13:00 T, Weaver-Densford Hall 6-194, 08:00-12:00 T, Weaver-Densford Hall 6-194, 08:00-12:00 T, Weaver-Densford Hall 6-194, 08:00-10:00 M, Moos Health Sci Tower 1-108, Partially Online; Megan Kakela ; 4 cr.

### 5448 Interprofessional Collaborative Practice in HIV Care (A-F only; )

67655 001 DIS, 17:30-20:30 T, Phillips-Wangenstn Bldg 2-350, 17:30-20:30 T, ONLINE BLENDED, 17:30-20:30 T, ONLINE BLENDED, 09:00-13:00 Sa, Phillips-Wangenstn Bldg 2-350, Partially Online; Melissa Saftner ; 1 cr.

### 5812 Global Health Through Study Abroad (S-N only; Prereq: instr consent)

63653 007 FWK, Study Abroad; Teddie Potter ; 1-2 cr.

## Nutrition (NUTR)

### 5622 Vitamin and Mineral Biochemistry

(Student Option; Prereq: BioC 3021, Phsl 3051, FSCN 4612)

57001 001 LEC, 09:35-10:25 MWF, Ruttan Hall B25, In Person Term Based; Dan Gallaher ; 3 cr.

### 5626 Nutritional Physiology

(A-F or Audit; Prereq: NUTR 5625)

57059 001 LEC, 08:45-10:00 TTh, Ruttan Hall B25, In Person Term Based; Meets With: 001 ANSC 5626; Milena Saqui-Salces ; 3 cr.

### 5627 Nutritional and Food Toxicology

(A-F only; Prereq: BIOC 3021; designed for students majoring in [nutrition or food science or toxicology])

57124 001 LEC, 15:00-16:15 MW, Ruttan Hall 143, In Person Term Based; Meets With: 001 FSCN 4622; Chi Chen. ; 3 cr.

### 5993 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )

57446 001 IND, In Person Term Based; 1-4 cr.  
69616 002 IND, In Person Term Based; 1-4 cr.

### 5994 Directed Research

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )

57447 001 IND, In Person Term Based; 1-4 cr.

## Occupational Therapy (OT)

### 1003 Introduction to Occupational Therapy

(Student Option; )

64865 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Cindy Jacobs ; 1 cr.

## Off-Campus Study (OCS)

### 3550 NSE: National Student Exchange Plan B

(S-N only; Prereq: dept consent)

64730 001 DIS, In Person Term Based; 0-20 cr.

## Office of Undergrad Education (OUE)

### 2001 Academic Planning and Exploration

(A-F only; )

64782 005 IND, 15:35-16:25 T, Bruininks Hall 518, Partially Online; Aya Maruyama ; 1 cr.

64797 002 IND, 10:10-12:05 F, Bruininks Hall 518, 10:10-12:05 F, Bruininks Hall 518, Primarily Online; Wendy Nicholson-Kotas ; 1 cr.

64798 003 IND, 12:20-14:15 F, Bruininks Hall 518, 12:20-14:15 F, Bruininks Hall 518, Primarily Online; Amanda Niskode-Dossett ; 1 cr.

64800 006 IND, 15:35-17:30 W, Bruininks Hall 518, 15:35-17:30 W, Bruininks Hall 518, Primarily Online; Jeff Olsen Krengel ; 1 cr.

64801 007 IND, 10:10-12:05 F, Bruininks Hall 518, 10:10-12:05 F, Bruininks Hall 518, Primarily Online; Susan LeBlanc ; 1 cr.

64824 001 IND, 15:35-17:30 W, Bruininks Hall 518, 15:35-17:30 W, Bruininks Hall 518, Primarily Online; Lucy Reile ; 1 cr.

67725 008 IND, 12:20-14:15 F, Bruininks Hall 518, 12:20-14:15 F, Bruininks Hall 518, Primarily Online; ; 1 cr.

### 3050 Introduction to Peer Education

(Student Option; )

69196 001 LEC, 13:25-14:15 M, Bruininks Hall 119, In Person Term Based; Brett Gray ; 1 cr.

### 3311 Leadership Development for University Student Leaders

(S-N only; )

64814 001 LEC, 15:30-17:30 W, , In Person Term Based; Sam Glazer Hewson ; 1 cr.

## Ojibwe (OJIB)

### 1102 Beginning Ojibwe II

(Student Option; Prereq: 1101)

54106 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 001 OJIB 4102; Zoe Brown ; 5 cr.

56281 301 LEC, 15:35-16:25 MTWThF, Twin Cities Remote, Completely Online; Zoe Brown ; 5 cr.

### 3104 Intermediate Ojibwe II

(Student Option; Prereq: 1102, 1102,3103)

54107 001 LEC, 14:30-15:20 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 001 OJIB 4104; Zoe Brown ; 5 cr.

56282 301 LEC, 14:30-15:20 MTWThF, Twin Cities Remote, Completely Online; Zoe Brown ; 5 cr.

### 4102 Beginning Ojibwe II

(Student Option; Prereq: community member, see department for permission to enroll.)

55089 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 001 OJIB 1102; Zoe Brown ; 3 cr.

56456 301 LEC, 15:35-16:25 MTWThF, Twin Cities Remote, Completely Online; Zoe Brown ; 3 cr.

### 4104 Intermediate Ojibwe II

(Student Option; Prereq: 1102, 3102, community member, see department for permission to enroll.)

55090 001 LEC, 14:30-15:20 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 001 OJIB 3104; Zoe Brown ; 3 cr.

56457 301 LEC, 14:30-15:20 MTWThF, Twin Cities Remote, Completely Online; Zoe Brown ; 3 cr.

### 5109 Advanced Ojibwe Language II

(A-F or Audit; )

54099 001 LEC, 14:30-15:20 MWF, Wulling Hall 220, In Person Term Based; Brendan Kishketon ; 3 cr.

56191 301 LEC, 14:30-15:20 MWF, Twin Cities Remote, Completely Online; Brendan Kishketon ; 3 cr.

### 5204W Ojibwe Mastery II

(A-F or Audit; WI)

54957 001 LEC, 12:20-13:10 MWF, Folwell Hall 118, In Person Term Based; Brendan Kishketon ; 3 cr.

56190 301 LEC, 12:20-13:10 MWF, Twin Cities Remote, Completely Online; Brendan Kishketon ; 3 cr.

### 5252 Ojibwe Conversations II

(A-F or Audit; )

69654 001 DIS, 13:25-14:15 MWF, Wulling Hall 220, In Person Term Based; Brendan Kishketon ; 3 cr.

## Ophthalmology (OPH)

### 5401 Orthoptics III

(S-N or Audit; )

66676 001 ROT, In Person Term Based; 5 cr.

### 5701 Orthoptics VI

(S-N only; )

62703 001 FWK, In Person Term Based; Lori Van Der Merwe ; 5 cr.

## Oral Biology (OBIO)

### 5030 Virology Research Presentations

(S-N only; )

57695 001 DIS, 12:00-12:50 W, Moos Health Sci Tower 2-120, In Person Term Based; Louis Mansky ; 1 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.)

57496 001 FWK, 00:00-00:00 , , In Person Term Based; James Swift ; 0-6 cr.

### 5276 Medicine Rotation for the Oral and Maxillofacial Surgeon

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program.)

57495 001 FWK, 00:00-00:00 , , In Person Term Based; 0-6 cr.

## Org Leadership, Policy & Dev (OLPD)

### 1303 Leadership in the Organizational Context

(A-F only; )

67640 001 LEC, 16:40-19:20 W, Bruininks Hall 530B, Partially Online; Amie Bergersen ; 3 cr.

67641 002 LEC, 11:15-12:30 TTh, Bruininks Hall 420A, Partially Online; Amie Bergersen ; 3 cr.

67642 003 LEC, 16:40-19:20 M, Bruininks Hall 530B, In Person Term Based; Abdullahi Bashir ; 3 cr.

67643 004 LEC, 14:30-15:45 TTh, Bruininks Hall 420A, In Person Term Based; Liz Hwang ; 3 cr.

### 1461 Presentations in Work Settings:

#### Business & Marketing Education and Human Resource Development

(A-F or Audit; CIV)

52068 001 LEC, Completely Online; Heather Dorsey ; 3 cr.

52069 002 LEC, Completely Online; Heather Dorsey ; 3 cr.

52070 003 LEC, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Heather Dorsey ; 3 cr.

### 2811 Societies of the Future: Changing Work Contexts

(A-F or Audit; TS)

51760 002 DIS, 09:45-11:00 MW, Bruininks Hall 530A, In Person Term Based; Meets With: 001 OLPD 2811H; Meg Fitzgerald-Sisk ; 3 cr.

52056 003 DIS, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Gary Peter ; 3 cr.

52218 004 DIS, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Gary Peter ; 3 cr.

### 2811H Societies of the Future: Changing Work Contexts, Honors

(A-F only; Prereq: Honors studentTS)

51785 001 DIS, 09:45-11:00 MW, Bruininks Hall 530A, 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; )

51704 002 LEC, 11:15-12:30 TTh, Bruininks Hall 420B, In Person Term Based; Louis Quast ; 3 cr.

### 3305 Learning About Leadership Through Film and Literature

(Student Option; )

52365 001 LEC, 11:15-12:30 MW, Peik Hall 335, In Person Term Based; Melissa Malen ; 3 cr.

### 3308 Data-Driven Decision-Making in BME and HRD

(A-F only; )

52367 001 LEC, 11:15-12:30 TTh, Peik Hall 225, In Person Term Based; Sehoon Kim ; 3 cr.

52368 002 LEC, 11:15-12:30 MW, Appleby Hall 302, In Person Term Based; Minjung Kim ; 3 cr.

### 3318 Introduction to Project Management

(Student Option; )

51725 001 LEC, 08:15-09:30 MW, Bruininks Hall 131A, In Person Term Based; Meg Fitzgerald-Sisk ; 3 cr.



(S-N or Audit; Prereq: 5385 or concurrent registration is required (or allowed) in 5385 or EDPA 5385)  
51326 001 LEC, 16:45-20:55 T, Appleby Hall 219,  
16:45-20:55 T, Appleby Hall 219, 16:45-20:55 T, Appleby  
Hall 219, In Person Term Based; Nancy Rajanen ; 1 cr.

**5387 Leadership for Teaching and Learning**  
(Student Option; Prereqs: OLPD 5385 Licensure  
Seminar: Program Policies and Inclusionary  
Leadership or concurrent registration and OLPD 5386  
Leadership Portfolio or concurrent registration.)  
51500 001 LEC, 16:45-20:55 M, Appleby Hall 11,  
16:45-20:55 M, Appleby Hall 11, 16:45-20:55 M, Appleby  
Hall 11, 16:45-20:55 M, Appleby Hall 11, 16:45-20:55  
M, Appleby Hall 11, 16:45-20:55 M, Appleby Hall 11,  
16:45-20:55 M, Appleby Hall 11, 16:45-20:55 M, Appleby  
Hall 11, 16:45-20:55 M, Appleby Hall 11, In Person Term  
Based; Tyrone Brookins ; 3 cr.

**5389 Community Education Leadership**  
(Student Option; Prereqs: OLPD 5385 Licensure  
Seminar: Program Policies and Inclusionary  
Leadership or concurrent registration and OLPD 5386  
Leadership Portfolio or concurrent registration.)  
51841 001 LEC, 16:45-20:55 T, Appleby Hall 128,  
16:45-20:55 T, Appleby Hall 128, 16:45-20:55 T, Appleby  
Hall 128, 16:45-20:55 T, Appleby Hall 128, 16:45-20:55  
T, Appleby Hall 128, 16:45-20:55 T, Appleby Hall 128,  
16:45-20:55 T, Appleby Hall 128, 16:45-20:55 T, Appleby  
Hall 128, 16:45-20:55 M, Appleby Hall 128, In Person  
Term Based; Shawn Hoffman-Bram ; 3 cr.

**5396 Field Experience in PK-12  
Administration: Authentic Practice in  
Leadership**  
(S-N or Audit; Prereqs: OLPD 5385 Licensure Seminar:  
Program Policies and Inclusionary Leadership or  
concurrent registration and OLPD 5386 Leadership  
Portfolio or concurrent registration.)  
51026 001 FWK, 16:45-20:55 T, Appleby Hall 319,  
16:45-20:55 T, Appleby Hall 319, 16:45-20:55 T, Appleby  
Hall 319, 16:45-20:55 T, Appleby Hall 319, In Person Term  
Based; Nancy Rajanen ; 3 cr.  
52087 002 FWK, Independent/Directed Study; Gary Prest ; 3  
cr.

**5501 Principles and Methods of Evaluation**  
(Student Option; )  
51603 001 LEC, Completely Online; Meets With: 001 Epsy  
5243; Stuart Yeh ; 3 cr.  
52130 002 LEC, Completely Online; Meets With: 002 Epsy  
5243; Stuart Yeh ; 3 cr.

**5502 Comparative evaluation theory for  
practice**  
(A-F only; )  
66118 001 LEC, 16:40-19:20 W, Peik Hall 335, In Person  
Term Based; John LaVelle ; 3 cr.

**5605 Strategic Planning through Human  
Resources**  
(A-F or Audit; Prereq: 5607 or 5615 or HRD 5201 or  
HRD 5301)  
52005 001 LEC, 17:00-19:00 Th, Peik Hall 375, In Person  
Term Based; Ricardo Aparicio ; 3 cr.

**5607 Organization Development**  
(A-F or Audit; Prereq: Grad student only)  
51073 002 LEC, Completely Online; Janet Polach ; 3 cr.

**5616 Training on the Internet**  
(Student Option; Prereq: Grad student only)  
52086 001 IND, Completely Online; Sehoon Kim ; 3 cr.

**5619 Planning and Decision-Making Skills**  
(Student Option; )  
51690 001 DIS, 09:00-11:00 Sa, Bruininks Hall 420B, In  
Person Term Based; Lisa Wocken ; 1 cr.

**5696 Internship: Human Resource  
Development**  
(S-N or Audit; Prereq: [[3901 or HRD 3601], [3696 or  
HRD 3196], [3620 or 3640 or HRD 3201 or HRD 3301],  
[3202 or ADED 3101], undergrad] or [[5607 or 5615 or  
HRD 5201 or HRD 5301], [5801 or WHRE 5001], grad  
student]], instr consent)  
51654 001 FWK, Independent/Directed Study; Louis Quast ;  
1-10 cr.

**5702 Higher Education in Global Contexts**  
(A-F only; )  
52341 001 DIS, 16:40-19:20 W, Burton Hall 125, In Person  
Term Based; Christopher Johnstone ; 3 cr.

**5704 College Students Today**  
(Student Option; )  
52202 001 DIS, 16:40-19:20 M, Bruininks Hall 512A, In  
Person Term Based; Tania Mitchell ; 3 cr.

**5709 Critical Issues in Higher Education**  
(A-F or Audit; )  
51839 001 DIS, 16:40-19:20 Th, Peik Hall 335, In Person  
Term Based; Michael Stebleton ; 3 cr.

**5732 The Law and Postsecondary  
Institutions**  
(Student Option; )  
52286 001 LEC, 16:40-19:20 T, Bruininks Hall 420B, In  
Person Term Based; Karen Miksch ; 3 cr.

**5819 Evaluating and Using Research in  
Organizations and Education**  
(A-F or Audit; Prereq: Grad student)  
51996 001 LEC, Completely Online; Joshua Collins ; 3 cr.

**5893 Directed Study in OLPD**  
(Student Option; )  
52470 001 IND, Independent/Directed Study; 1-4 cr.

## Otolaryngology (OTOL)

**5993 Directed Studies**  
(Student Option; Prereq: instr consent)  
62373 001 IND, 00:00-00:00 , , In Person Term Based; ; 1-12  
cr.  
62569 002 IND, 00:00-00:00 , , In Person Term Based; 1-12  
cr.

## Periodontics (PERO)

**5123 Practice Management Externship**  
(Student Option; Prereq: Resident in advanced  
education program in periodontology)  
57547 001 LEC, 00:00-00:00 , , In Person Term Based; 1 cr.

## Pharmacology (PHCL)

**3100 Pharmacology for Pre-Med and Life  
Science Students**  
(A-F or Audit; Prereq: College-level biology,  
biochemistry or physiology recommended)  
62541 001 LEC, 13:25-15:20 W, Mayo Bldg & Additions  
3-125, In Person Term Based; Li-Na Wei ; 2 cr.

**4001 Mechanisms of Drug Action**  
(Student Option; Prereq: Upper div or instr consent;  
[prev or concurrent] courses in [biology, biochemistry]  
recommended)  
62700 001 LEC, 09:05-09:55 TTh, Moos Health Sci Tower  
2-580, In Person Term Based; Gregory Connell ; 2 cr.

**4003 Anti-infective drugs: Drugs that kill  
invaders**  
(A-F or Audit; Prereq: College-level biology)  
62675 001 LEC, 10:10-11:00 MW, Mayo Bldg & Additions  
3-100, 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])  
63215 002 LAB, 13:25-16:50 W, Jackson Hall 3-165, In  
Person Term Based; Ezequiel Marron Fernandez de  
Velasco ; 2 cr.

**4993 Directed Studies**  
(S-N only; Prereq: instr consent, dept consent)  
62676 001 IND, 00:00-00:00 , , Independent/Directed Study;  
Hiroshi Hiasa ; 1-3 cr.

**4994 Directed Research**  
(S-N only; Prereq: instr consent, dept consent)  
62677 001 IND, 00:00-00:00 , , Independent/Directed Study;  
Hiroshi Hiasa ; 1-3 cr.

**5109 Introduction to Scientific  
Communication**  
(Student Option; Prerequisites: student in the  
Graduate Program in Pharmacology (MS program)  
or approval from the Director of Graduate Studies

Keywords: Pharmacology, Directed, Independent  
Study, Biomedical, Basic Science, Research, Drug)  
62391 001 IND, 15:00-16:00 TTh, Akerman Hall 209, In  
Person Term Based; Colin Campbell ; 1-18 cr.

**5111 Pharmacogenomics**  
(A-F or Audit; Prereq: Grad student or instr consent  
Keywords: Pharmacology, Pharmacogenomics,  
Toxicogenomics, Proteomics, Genetics, Drug)  
62460 001 LEC, 15:30-17:30 W, Bruininks Hall 512B,  
12:00-13:00 M, Bruininks Hall 144, In Person Term Based;  
Colin Campbell ; 3 cr.

**5462 Neuroscience Principles of Drug  
Abuse**  
(Student Option; Prereq: instr consent)  
62678 001 LEC, In Person Term Based; 2 cr.

## Pharmacy (PHAR)

**1001 Orientation to Pharmacy**  
(Student Option; )  
63825 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 2 cr.

**1002 Medical Terminology**  
(Student Option; )  
63823 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone ; 2 cr.

**1003 Nonprescription Medications and  
Self-Care: Treating Minor Conditions**  
(Student Option; )  
63858 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone ; 2 cr.

**1004 Common Prescription Drugs and  
Diseases**  
(Student Option; )  
63871 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 2 cr.

**3206 Foundations of Health Literacy**  
(Student Option; )  
63889 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone, Jody Lounsbury ; 3 cr.

**3700 Fundamentals of Pharmacotherapy**  
(A-F or Audit; Prereq: Medical terminology  
recommended)  
63875 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 3 cr.

**3800 Pharmacotherapy for the Health  
Professions**  
(A-F only; Prereq: Anatomy and physiology)  
63860 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 3 cr.  
63866 002 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 3 cr.

**4204W Drugs and the U.S. Healthcare  
System**  
(Student Option; CIV,WI)  
63873 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone, Kristyn Williamson ; 3 cr.

**5201 Applied Medical Terminology**  
(Student Option; Prereq: Basic knowledge of human  
anatomy/physiology)  
63824 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone ; 2 cr.

**5204 Drugs and the US Healthcare System**  
(Student Option; )  
63871 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone, Kristyn Williamson ; 3 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.)  
63880 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Anna Milone ; 2 cr.

**5700 Applied Fundamentals of  
Pharmacotherapy**

(A-F only; Prereq: Medical terminology recommended)  
63872 001 IND, 00:00-00:00 , ONLINE, Completely Online;  
Kristyn Williamson ; 3 cr.

## Philosophy (PHIL)

### 1001 Introduction to Logic

(Student Option; MATH)  
52624 002 DIS, 09:05-09:55 M, Blegen Hall 220, In Person Term Based; 4 cr.  
52625 003 DIS, 10:10-11:00 M, Blegen Hall 220, In Person Term Based; 4 cr.  
52626 004 DIS, 09:05-09:55 F, Blegen Hall 205, In Person Term Based; 4 cr.  
52627 005 DIS, 10:10-11:00 F, Blegen Hall 205, In Person Term Based; 4 cr.  
53091 001 LEC, 09:45-11:00 TTh, Anderson Hall 250, In Person Term Based; Catharine Saint-Croix ; 4 cr.

### 1002W Introduction to Philosophy

(Student Option; AH,WI)  
53528 001 LEC, 10:10-11:00 MWF, Anderson Hall 230, In Person Term Based; David Taylor ; 4 cr.  
53529 002 DIS, 09:05-09:55 T, Blegen Hall 115, In Person Term Based; 4 cr.  
54860 003 DIS, 10:10-11:00 T, Blegen Hall 115, In Person Term Based; 4 cr.  
55432 004 DIS, 09:05-09:55 Th, Blegen Hall 260, In Person Term Based; 4 cr.  
55433 005 DIS, 10:10-11:00 Th, Blegen Hall 225, In Person Term Based; 4 cr.

### 1004W Introduction to Political Philosophy

(Student Option; AH,WI,CIV)  
54635 001 LEC, 09:05-09:55 MWF, Anderson Hall 230, In Person Term Based; Nicole Thompson ; 4 cr.  
54636 002 DIS, 08:00-08:50 T, Blegen Hall 210, In Person Term Based; 4 cr.  
54637 003 DIS, 09:05-09:55 T, Hubert H. Humphrey School 30, In Person Term Based; 4 cr.  
55945 004 DIS, 08:00-08:50 Th, Blegen Hall 210, In Person Term Based; 4 cr.  
55946 005 DIS, 09:05-09:55 Th, Blegen Hall 115, In Person Term Based; 4 cr.

### 1006W Philosophy and Cultural Diversity

(Student Option; AH,WI,DSJ)  
65933 001 LEC, 12:20-13:10 MWF, Carlson School of Mgmt 1-147, In Person Term Based; Codi Stevens ; 4 cr.  
65934 002 DIS, 11:15-12:05 T, Blegen Hall 140, In Person Term Based; 4 cr.  
65935 003 DIS, 12:20-13:10 T, Blegen Hall 330, In Person Term Based; 4 cr.

### 1914 Space and Time: from Aristotle to Einstein

(A-F only; )  
66131 001 DIS, 14:30-15:45 TTh, Hubert H. Humphrey School 50A, In Person Term Based; Jos Uffink ; 3 cr.

### 1919 Black: An Investigation in Aesthetic Moralism

(A-F only; )  
66709 001 DIS, 14:30-15:45 TTh, Hubert H. Humphrey School 30, In Person Term Based; Dwight Lewis ; 3 cr.

### 3005W General History of Western Philosophy: Modern Period

(Student Option; AH,WI)  
55132 001 LEC, 12:20-13:10 MWF, Anderson Hall 250, In Person Term Based; Jessica Gordon-Roth ; 4 cr.  
55133 002 DIS, 11:15-12:05 T, Blegen Hall 335, In Person Term Based; 4 cr.  
55134 003 DIS, 12:20-13:10 T, Blegen Hall 335, In Person Term Based; 4 cr.

### 3201 Free Will and Responsibility

(Student Option; )  
65936 001 LEC, 16:40-19:10 T, Blegen Hall 205, In Person Term Based; Aila O'loughlin ; 3 cr.

### 3234 Knowledge and Society

(Student Option; )  
66703 001 SEM, 11:15-12:30 TTh, Blegen Hall 145, In Person Term Based; Dwight Lewis ; 4 cr.

### 3302W Moral Problems of Contemporary Society

(Student Option; CIV,WI)  
65927 001 LEC, 10:10-11:00 MWF, Blegen Hall 317, In Person Term Based; Nathan Lackey ; 4 cr.

65928 002 DIS, 10:10-11:00 Th, Blegen Hall 205, In Person Term Based; 4 cr.  
65929 003 DIS, 11:15-12:05 Th, Blegen Hall 335, In Person Term Based; 4 cr.

### 3305 Medical Ethics

(Student Option; )  
54681 001 LEC, 11:15-12:30 MF, Anderson Hall 370, In Person Term Based; Yoshinari Yoshida ; 4 cr.  
55136 002 DIS, 11:15-12:05 W, Blegen Hall 330, In Person Term Based; 4 cr.  
55137 003 DIS, 12:20-13:10 W, Blegen Hall 330, In Person Term Based; 4 cr.

### 3601W Scientific Thought

(Student Option; Prereq: One course in philosophy or natural scienceW)  
53590 001 LEC, 11:15-12:55 TTh, Blegen Hall 155, In Person Term Based; Jos Uffink ; 4 cr.

### 3605 Disease, Diagnosis, and Intervention: Conceptual Issues in Medicine

(Student Option; )  
55963 001 LEC, 14:30-15:45 TTh, Blegen Hall 130, In Person Term Based; Alan Love, Steven Stovitz ; 3 cr.

### 3993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
52663 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

### 4009 Existentialism

(Student Option; )  
65958 001 LEC, 16:40-19:10 M, Folwell Hall 112, In Person Term Based; Meets With: 001 PHIL 5009001 GER 5610; Matthias Rothe ; 3 cr.

### 4010 Ancient Philosophers

(Student Option; Prereq: 3001 or instr consent)  
56027 001 DIS, 13:00-14:15 TTh, Blegen Hall 105, In Person Term Based; Meets With: 001 PHIL 5010; Tamara Fakhoury ; 3 cr.

### 4231 Philosophy of Language

(Student Option; Prereq: 1001 or 5201 or instr consent)  
55960 001 LEC, 13:00-14:15 TTh, Blegen Hall 210, In Person Term Based; Meets With: 001 PHIL 5231; Catharine Saint-Croix ; 3 cr.

### 4331 Contemporary Moral Theories

(Student Option; Prereq: 1003 or instr consent)  
55959 001 LEC, 13:00-14:15 MW, Blegen Hall 260, In Person Term Based; Meets With: 001 PHIL 5331; Michelle Mason Bizri ; 3 cr.

### 4510 Philosophy of the Individual Arts

(Student Option; Prereq: 3502)  
65955 001 LEC, 14:30-15:45 WF, Hubert H. Humphrey School 30, In Person Term Based; Meets With: 001 PHIL 5510; Michael Kac ; 3 cr.

### 4760 Selected Topics in Philosophy

(Student Option; Prereq: 3 [3xxx-5xxx] cr in philosophy or instr consent)  
65982 001 LEC, 11:15-12:05 MWF, Blegen Hall 115, In Person Term Based; Meets With: 001 PHIL 5760; Brian Bix ; 3 cr.  
66112 002 LEC, 09:45-11:00 TTh, Blegen Hall 105, In Person Term Based; Meets With: 002 PHIL 5760; Tamara Fakhoury ; 3 cr.

### 4888 Philosophy Senior Capstone

(A-F only; )  
69145 001 DIS, 15:35-16:25 W, Blegen Hall 205, 14:30-17:00 F, Walter W Heller Hall 731, In Person Term Based; Meets With: 001 PHIL 4888H; Michelle Mason Bizri, Peter Hanks ; 4 cr.

### 4888H Honors Philosophy Senior Capstone

(A-F only; )  
69391 001 DIS, 15:35-16:25 W, Blegen Hall 205, 14:30-17:00 F, Walter W Heller Hall 731, In Person Term Based; Meets With: 001 PHIL 4888; Michelle Mason Bizri, Peter Hanks ; 4 cr.

### 4893 Capstone: Directed Studies

(A-F only; Prereq: instr consent, dept consent)  
53965 001 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.

### 4993 Directed Studies

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

52662 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

### 5009 Existentialism

(Student Option; )  
65959 001 LEC, 16:40-19:10 M, Folwell Hall 112, In Person Term Based; Meets With: 001 GER 5610001 PHIL 4009; Matthias Rothe ; 3 cr.

### 5010 Ancient Philosophers

(Student Option; Prereq: 3001 or instr consent)  
56184 001 DIS, 13:00-14:15 TTh, Blegen Hall 105, In Person Term Based; Meets With: 001 PHIL 4010; Tamara Fakhoury ; 3 cr.

### 5211 Modal Logic

(Student Option; Prereq: 5201 or instr consent)  
55957 001 LEC, 13:00-14:15 MW, Blegen Hall 105, In Person Term Based; David Taylor ; 4 cr.  
55958 002 DIS, 11:15-12:05 F, Blegen Hall 260, In Person Term Based; David Taylor ; 4 cr.

### 5231 Philosophy of Language

(Student Option; Prereq: 1001 or 5201 or instr consent)  
56153 001 LEC, 13:00-14:15 TTh, Blegen Hall 210, In Person Term Based; Meets With: 001 PHIL 4231; Catharine Saint-Croix ; 3 cr.

### 5331 Contemporary Moral Theories

(Student Option; Prereq: 1003 or instr consent)  
56156 001 LEC, 13:00-14:15 MW, Blegen Hall 260, In Person Term Based; Meets With: 001 PHIL 4331; Michelle Mason Bizri ; 3 cr.

### 5415 Philosophy of Law

(Student Option; Prereq: 1003 or 1004 or 3302 or social science major or instr consent)  
53982 001 LEC, 13:25-14:20 MWF, Mondale Hall 35, In Person Term Based; Meets With: 001 LAW 6615; Brian Bix ; 3 cr.

### 5510 Philosophy of the Individual Arts

(Student Option; Prereq: 3502)  
65956 001 LEC, 14:30-15:45 WF, Hubert H. Humphrey School 30, In Person Term Based; Meets With: 001 PHIL 4510; Michael Kac ; 3 cr.

### 5760 Selected Topics in Philosophy

(Student Option; Prereq: 3xxx-5xxx course in phil or instr consent)  
65983 001 DIS, 11:15-12:05 MWF, Blegen Hall 115, In Person Term Based; Meets With: 001 PHIL 4760; Brian Bix ; 3 cr.  
66113 002 DIS, 09:45-11:00 TTh, Blegen Hall 105, In Person Term Based; Meets With: 002 PHIL 4760; Tamara Fakhoury ; 3 cr.  
68747 003 DIS, 09:00-11:30 W, ONLINE BLENDED, 09:00-11:30 W, Walter W Heller Hall 731, In Person Term Based; Meets With: 002 BTHX 5000002 BTHX 8000; Carl Elliott ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent)  
52664 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

## Physical Education (PE)

### 1012 Beginning Running

(Student Option No Audit; )  
52442 001 LAB, Completely Online; Meghan Peyton ; 1 cr.  
52443 002 LAB, Completely Online; Meghan Peyton ; 1 cr.  
68506 003 LAB, Completely Online; Meghan Peyton ; 1 cr.  
68507 004 LAB, Completely Online; Meghan Peyton ; 1 cr.

### 1014 Conditioning

(Student Option No Audit; )  
51079 001 LAB, 08:00-08:50 MW, U Of M Field House 50, In Person Term Based; Jason Kang ; 1 cr.  
51083 007 LAB, 10:10-11:00 TTh, U Of M Field House 50, In Person Term Based; Amy Hobday ; 1 cr.  
52379 009 LAB, 10:10-11:50 F, U Of M Field House 50, In Person Term Based; Olivia Wicker ; 1 cr.  
52439 004 LAB, 11:15-12:05 MW, U Of M Field House 50, In Person Term Based; Efrat Abadi ; 1 cr.  
68519 010 LAB, Completely Online; Olivia Wicker ; 1 cr.  
68520 011 LAB, Completely Online; Olivia Wicker ; 1 cr.  
68521 012 LAB, Completely Online; Abigail Berry ; 1 cr.  
68522 013 LAB, Completely Online; Abigail Berry ; 1 cr.  
69639 002 LAB, Completely Online; Jason Kang ; 1 cr.

69640 003 LAB, Completely Online; Jason Kang ; 1 cr.  
69641 005 LAB, Completely Online; Amy Hobday ; 1 cr.  
69642 006 LAB, Completely Online; Amy Hobday ; 1 cr.

### 1015 Weight Training

(Student Option No Audit; )  
51084 001 LAB, 08:00-08:50 MW, University Rec Center 120, In Person Term Based; Andrew Gunsaulus ; 1 cr.  
51085 002 LAB, 09:05-09:55 MW, University Rec Center 120, In Person Term Based; Andrew Gunsaulus ; 1 cr.  
51086 003 LAB, 10:10-11:00 MW, University Rec Center 120, In Person Term Based; Andrew Gunsaulus ; 1 cr.  
51087 004 LAB, 08:00-08:50 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.  
51088 005 LAB, 09:05-09:55 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.  
68523 006 LAB, 10:10-11:00 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.

### 1016 Posture and Individual Exercise

(Student Option No Audit; )  
52234 003 LAB, 13:25-14:15 MW, Cooke Hall 325, In Person Term Based; Alexandra Eady ; 1 cr.  
68534 004 LAB, 14:30-15:20 MW, Cooke Hall 325, In Person Term Based; Alexandra Eady ; 1 cr.  
68535 005 LAB, Completely Online; Amanda Frayeh ; 1 cr.  
68536 006 LAB, Completely Online; Amanda Frayeh ; 1 cr.  
68537 007 LAB, Completely Online; Amanda Frayeh ; 1 cr.  
68538 008 LAB, Completely Online; Amanda Frayeh ; 1 cr.

### 1031 Sabre Fencing

(Student Option No Audit; )  
51918 001 LAB, 09:05-09:55 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.

### 1032 Badminton

(Student Option No Audit; )  
51998 002 LAB, 10:10-11:00 MW, Cooke Hall 325, In Person Term Based; Rahul Rajan ; 1 cr.  
51999 003 LAB, 11:15-12:05 MW, Cooke Hall 325, In Person Term Based; Rahul Rajan ; 1 cr.

### 1033 Foil Fencing

(Student Option No Audit; )  
51919 001 LAB, 10:10-11:00 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.

### 1035 Karate

(Student Option No Audit; )  
51075 001 LAB, 10:10-11:50 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.

### 1037 Squash Racquets

(Student Option No Audit; )  
51547 001 LAB, 11:15-12:05 MW, University Rec Center 143, In Person Term Based; John Stever ; 1 cr.  
51907 002 LAB, 10:10-11:50 F, University Rec Center 143, In Person Term Based; John Stever ; 1 cr.

### 1038 Beginning Tennis

(Student Option No Audit; )  
51090 003 LAB, 08:00-09:45 W, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
51091 004 LAB, 10:10-11:50 W, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
51092 005 LAB, 08:00-08:50 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
51093 006 LAB, 09:05-09:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
51590 007 LAB, 10:10-11:00 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
51591 008 LAB, 11:15-12:05 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.

### 1044 Self-Defense

(Student Option No Audit; )  
51076 001 LAB, 10:10-11:00 MW, Cooke Hall 308, In Person Term Based; Kara Winter ; 1 cr.  
51077 002 LAB, 11:15-12:05 MW, Cooke Hall 308, In Person Term Based; Kara Winter ; 1 cr.  
51193 003 LAB, 08:00-08:50 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
51556 004 LAB, 09:05-09:55 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
51592 005 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Kara Winter ; 1 cr.  
51908 006 LAB, 18:45-20:30 W, St. Paul Gymnasium 130, In Person Term Based; Kara Winter ; 1 cr.  
51976 007 LAB, 13:25-15:15 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.

### 1045 Rock Climbing

(Student Option No Audit; Prereq: Good general health, no [neck or back] problems)

51726 001 LAB, 08:00-09:40 M, University Rec Center 68B, In Person Term Based; Tyler Williams ; 1 cr.  
51727 002 LAB, 10:10-11:50 M, University Rec Center 68B, In Person Term Based; Tyler Williams ; 1 cr.  
52090 003 LAB, 08:00-09:40 T, University Rec Center 68B, In Person Term Based; Tyler Williams ; 1 cr.  
52091 004 LAB, 10:10-11:50 T, University Rec Center 68B, In Person Term Based; Tyler Williams ; 1 cr.  
52381 007 LAB, 10:10-11:50 Th, University Rec Center 68B, In Person Term Based; Bryan Karban ; 1 cr.  
69383 005 LAB, 08:00-09:40 W, University Rec Center 68B, In Person Term Based; Zach Bramel ; 1 cr.  
69384 006 LAB, 10:10-11:50 W, University Rec Center 68B, In Person Term Based; Zach Bramel ; 1 cr.

### 1046 Tae Kwon Do

(Student Option No Audit; )  
51284 002 LEC, 10:10-11:00 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
52145 003 LEC, 11:15-12:05 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
52236 001 LEC, 09:05-09:55 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.

### 1048 Bowling

(Student Option No Audit; )  
51593 007 LAB, 09:05-09:55 TTh, Coffman Memorial Union B3, In Person Term Based; William Thompson ; 1 cr.  
51686 008 LAB, 10:10-11:00 TTh, Coffman Memorial Union B3, In Person Term Based; William Thompson ; 1 cr.  
51687 009 LAB, 11:15-12:05 TTh, Coffman Memorial Union B3, In Person Term Based; William Thompson ; 1 cr.  
51688 010 LAB, 12:20-13:10 TTh, Coffman Memorial Union B3, In Person Term Based; William Thompson ; 1 cr.

### 1057 Beginning Skiing

(Student Option No Audit; )  
51120 001 LAB, 17:00-21:00 T, Lab TBA, In Person Term Based; Dawn Smith ; 1 cr.  
51121 002 LAB, 17:00-21:00 Th, Lab TBA, In Person Term Based; Dawn Smith ; 1 cr.

### 1058 Snowboarding

(Student Option No Audit; )  
51270 001 LAB, 16:00-20:00 T, Lab TBA, In Person Term Based; Erin Ramberg ; 1 cr.  
51271 002 LAB, 16:00-20:00 Th, Lab TBA, In Person Term Based; Erin Ramberg ; 1 cr.  
52094 004 LAB, 14:30-18:30 Su, Lab TBA, In Person Term Based; Erin Ramberg ; 1 cr.

### 1067 Basketball

(Student Option No Audit; )  
68545 001 LAB, 09:05-09:55 MW, Fieldhouse Basketball Courts, In Person Term Based; Efrat Abadi ; 1 cr.  
68546 002 LAB, 10:10-11:00 MW, Fieldhouse Basketball Courts, In Person Term Based; Efrat Abadi ; 1 cr.

### 1071 Beginning Cricket

(Student Option No Audit; )  
52160 001 LAB, 09:05-10:45 F, University Rec Center 451, In Person Term Based; Charles Peterson ; 1 cr.

### 1072 Soccer

(Student Option No Audit; )  
51689 003 LAB, 09:05-10:45 TTh, U Of M Fieldhouse 102 (E), In Person Term Based; Viktor Adamcsek ; 1 cr.  
51909 004 LAB, 11:15-12:55 TTh, U Of M Fieldhouse 102 (E), In Person Term Based; Viktor Adamcsek ; 1 cr.  
52238 001 LAB, 09:05-10:45 MW, U Of M Fieldhouse 102 (E), In Person Term Based; John Curtis ; 1 cr.  
68539 005 LAB, 09:05-10:45 MW, U Of M Fieldhouse 102 (E), In Person Term Based; John Curtis ; 1 cr.  
68540 006 LAB, 09:05-10:45 TTh, U Of M Fieldhouse 102 (E), In Person Term Based; Viktor Adamcsek ; 1 cr.  
68541 007 LAB, 11:15-12:55 TTh, U Of M Fieldhouse 102 (E), In Person Term Based; Viktor Adamcsek ; 1 cr.

### 1074 Beginning Volleyball

(Student Option No Audit; )  
68547 001 LAB, 13:25-15:05 Th, Cooke Hall 325, In Person Term Based; Sarah Braden ; 1 cr.  
68967 002 LAB, 09:05-09:55 MW, Cooke Hall 325, In Person Term Based; Sarah Braden ; 1 cr.

### 1076 Flag Football

(Student Option No Audit; )  
68548 001 LAB, 09:05-10:45 MW, Huntington Bank Stad Field Eas, In Person Term Based; Jaime Medina ; 1 cr.  
68549 002 LAB, 09:05-10:45 TTh, Huntington Bank Stad Field Eas, In Person Term Based; Jaime Medina ; 1 cr.

### 1205 Scuba and Skin Diving

(Student Option No Audit; Prereq: Ability to swim 400 yds comfortably or instr consent)

51078 001 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Kenneth Ries ; 1 cr.  
51194 003 LAB, 10:10-12:05 TTh, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
52382 002 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
68542 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Kenneth Ries ; 1 cr.  
68543 005 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
68544 006 LAB, 10:10-12:05 TTh, 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)

51949 001 LAB, 07:30-10:30 Sa, Cooke Hall Lobby, 08:00-09:30 W, Cooke Hall Lobby, In Person Term Based; Christopher Lundstrom ; 3 cr.

## Physical Therapy (PT)

### 1002 Orientation to Physical Therapy

(S-N or Audit; )  
62324 002 LEC, 13:25-14:15 T, Twin Cities Remote, Completely Online; Jennifer Arnold ; 1 cr.

## Physics (PHYS)

### 1001W Energy and the Environment

(Student Option; Prereq: 1 yr high school algebraENV,WI,PHYS)

59122 100 LEC, 12:20-13:10 MWF, Tate Hall B20, In Person Term Based; Priscilla Cushman ; 4 cr.  
59123 101 LAB, 08:00-09:55 Th, Tate Hall B78, In Person Term Based; 4 cr.  
59124 102 LAB, 10:10-12:05 Th, Tate Hall B78, In Person Term Based; 4 cr.  
59125 103 LAB, 12:20-14:15 Th, Tate Hall B78, In Person Term Based; 4 cr.  
61118 104 LAB, 14:30-16:25 Th, Tate Hall B78, In Person Term Based; 4 cr.  
61218 106 LAB, 13:25-15:20 W, Tate Hall B78, In Person Term Based; 4 cr.  
61303 107 LAB, 15:35-17:30 W, Tate Hall B78, In Person Term Based; 4 cr.

### 1101W Introductory College Physics I

(Student Option; Prereq: High school algebra, plane geometry, trigonometry; primarily for students interested in technical areasPHYS,WI)

59126 100 LEC, 13:25-14:15 MWF, Tate Hall B50, In Person Term Based; Paul Haines ; 4 cr.  
59127 103 DIS, 13:25-14:15 T, Blegen Hall 155, In Person Term Based; 4 cr.  
59128 104 LAB, 11:15-13:10 M, Tate Hall B76, In Person Term Based; 4 cr.  
59129 105 DIS, 13:25-14:15 T, Blegen Hall 130, In Person Term Based; 4 cr.  
59130 106 LAB, 14:30-16:25 M, Tate Hall B76, In Person Term Based; 4 cr.  
59131 107 DIS, 13:25-14:15 T, Blegen Hall 335, In Person Term Based; 4 cr.  
59132 108 LAB, 16:40-18:35 M, Tate Hall B76, In Person Term Based; 4 cr.  
59133 111 DIS, 13:25-14:15 T, Blegen Hall 215, In Person Term Based; 4 cr.  
59134 112 LAB, 10:10-12:05 T, Tate Hall B76, In Person Term Based; 4 cr.  
61304 124 DIS, 14:30-15:20 T, Amundson Hall 104, In Person Term Based; 4 cr.  
61305 125 LAB, 17:45-19:40 T, Tate Hall B76, In Person Term Based; 4 cr.  
61306 126 DIS, 14:30-15:20 T, Akerman Hall 225, In Person Term Based; 4 cr.  
61307 127 LAB, 08:00-09:55 W, Tate Hall B76, In Person Term Based; 4 cr.  
61308 128 DIS, 14:30-15:20 T, Tate Hall B45, In Person Term Based; 4 cr.  
61309 129 LAB, 10:10-12:05 W, Tate Hall B76, In Person Term Based; 4 cr.  
61310 130 DIS, 14:30-15:20 T, Elliott Hall N647, In Person Term Based; 4 cr.  
61311 131 LAB, 14:30-16:25 W, Tate Hall B76, In Person Term Based; 4 cr.  
61502 101 DIS, 13:25-14:15 T, Hubert H. Humphrey School 50A, In Person Term Based; 4 cr.  
61503 102 LAB, 09:05-11:00 M, Tate Hall B76, In Person Term Based; 4 cr.  
61504 109 DIS, 13:25-14:15 T, Blegen Hall 110, In Person Term Based; 4 cr.

61505 110 LAB, 08:00-09:55 T, Tate Hall B76, In Person Term Based; 4 cr.  
 61506 113 DIS, 13:25-14:15 T, Blegen Hall 330, In Person Term Based; 4 cr.  
 61507 114 LAB, 15:35-17:30 T, Tate Hall B76, In Person Term Based; 4 cr.  
 61508 132 DIS, 14:30-15:20 T, Appleby Hall 319, In Person Term Based; 4 cr.  
 61509 133 LAB, 09:05-11:00 Th, Tate Hall B76, In Person Term Based; 4 cr.  
 61510 134 DIS, 14:30-15:20 T, Amundson Hall 162, In Person Term Based; 4 cr.  
 61511 135 LAB, 11:15-13:10 Th, Tate Hall B76, In Person Term Based; 4 cr.

### 1102W Introductory College Physics II

(Student Option; Prereq: 1101W or 1107PHYS,WI)  
 59135 100 LEC, 13:25-14:15 MWF, Tate Hall B20, In Person Term Based; Cynthia Cattell ; 4 cr.  
 61219 106 LAB, 14:30-16:25 M, Tate Hall B78, In Person Term Based; 4 cr.  
 61223 105 DIS, 12:20-13:10 Th, Amundson Hall 158, In Person Term Based; 4 cr.  
 61312 130 DIS, 13:25-14:15 Th, Vincent Hall 20, In Person Term Based; 4 cr.  
 61313 131 LAB, 12:20-14:15 T, Tate Hall B78, In Person Term Based; 4 cr.  
 61500 132 DIS, 13:25-14:15 Th, Bruininks Hall 117, In Person Term Based; 4 cr.  
 61501 133 LAB, 14:30-16:25 T, Tate Hall B78, In Person Term Based; 4 cr.  
 68312 103 DIS, 12:20-13:10 Th, Amundson Hall 104, In Person Term Based; 4 cr.  
 68313 104 LAB, 11:15-13:10 M, Tate Hall B78, In Person Term Based; 4 cr.

### 1108 Introductory Physics Online II

(Student Option; Prereq: 1101W or 1107; primarily for students interested in technical areasPHYS)  
 60650 301 IND, 00:00-00:00 , ONLINE, Completely Online; Pete Border ; 4 cr.

### 1221 Introductory Physics for Life Science Majors I

(Student Option; Prereq: High School or College CalculusPHYS)  
 61420 101 DIS, 12:20-13:10 T, Kolthoff Hall 138, In Person Term Based; 4 cr.  
 61421 102 LAB, 09:05-11:00 T, Tate Hall B59, In Person Term Based; 4 cr.  
 61422 103 DIS, 12:20-13:10 T, Kolthoff Hall 135, In Person Term Based; 4 cr.  
 61423 104 LAB, 08:00-09:55 W, Tate Hall B59, In Person Term Based; 4 cr.  
 61424 105 DIS, 12:20-13:10 T, Kolthoff Hall 134, In Person Term Based; 4 cr.  
 61425 106 LAB, 15:35-17:30 W, Tate Hall B59, In Person Term Based; 4 cr.  
 61428 111 DIS, 11:15-12:05 T, Hubert H. Humphrey School 25, In Person Term Based; 4 cr.  
 61429 112 LAB, 14:30-16:25 T, Tate Hall B59, In Person Term Based; 4 cr.  
 61430 113 DIS, 11:15-12:05 T, Nicholson Hall 115, In Person Term Based; 4 cr.  
 61431 114 LAB, 10:10-12:05 W, Tate Hall B59, In Person Term Based; 4 cr.  
 61432 121 DIS, 11:15-12:05 T, Akerman Hall 317, In Person Term Based; 4 cr.  
 61433 122 LAB, 08:00-09:55 Th, Tate Hall B59, In Person Term Based; 4 cr.  
 61436 127 DIS, 13:25-14:15 T, Blegen Hall 240, In Person Term Based; 4 cr.  
 61437 128 LAB, 16:40-18:35 T, Tate Hall B59, In Person Term Based; 4 cr.  
 61438 129 DIS, 13:25-14:15 T, Blegen Hall 205, In Person Term Based; 4 cr.  
 61439 130 LAB, 13:25-15:20 W, Tate Hall B59, In Person Term Based; 4 cr.  
 61440 131 DIS, 13:25-14:15 T, Nicholson Hall 145, In Person Term Based; 4 cr.  
 61441 132 LAB, 10:10-12:05 Th, Tate Hall B59, In Person Term Based; 4 cr.  
 61442 200 LEC, 17:45-18:35 Th, Room TBA, 15:35-16:25 MWF, Tate Hall B20, In Person Term Based; Roger Rusack ; 4 cr.  
 61443 201 DIS, 15:35-16:25 T, Vincent Hall 213, In Person Term Based; 4 cr.  
 61444 202 LAB, 08:00-09:55 T, Tate Hall B70, In Person Term Based; 4 cr.  
 61445 203 DIS, 15:35-16:25 T, Mechanical Engineering 321, In Person Term Based; 4 cr.  
 61446 204 LAB, 09:05-11:00 W, Tate Hall B70, In Person Term Based; 4 cr.  
 61447 205 DIS, 15:35-16:25 T, Amundson Hall 104, In Person Term Based; 4 cr.

61448 206 LAB, 11:15-13:10 M, Tate Hall B70, In Person Term Based; 4 cr.  
 61449 211 DIS, 14:30-15:20 T, Bruininks Hall 117, In Person Term Based; 4 cr.  
 61450 212 LAB, 10:10-12:05 T, Tate Hall B70, In Person Term Based; 4 cr.  
 61451 213 DIS, 14:30-15:20 T, Bruininks Hall 123, In Person Term Based; 4 cr.  
 61452 214 LAB, 11:15-13:10 W, Tate Hall B70, In Person Term Based; 4 cr.  
 61453 221 DIS, 14:30-15:20 T, Akerman Hall 327, In Person Term Based; 4 cr.  
 61454 222 LAB, 13:25-15:20 M, Tate Hall B70, In Person Term Based; 4 cr.  
 61455 223 DIS, 16:40-17:30 T, Amundson Hall 158, In Person Term Based; 4 cr.  
 61456 224 LAB, 12:20-14:15 T, Tate Hall B70, In Person Term Based; 4 cr.  
 61457 225 DIS, 16:40-17:30 T, Amundson Hall 104, In Person Term Based; 4 cr.  
 61458 226 LAB, 13:25-15:20 W, Tate Hall B70, In Person Term Based; 4 cr.  
 61459 227 DIS, 16:40-17:30 T, Vincent Hall 213, In Person Term Based; 4 cr.  
 61460 228 LAB, 16:40-18:35 M, Tate Hall B70, In Person Term Based; 4 cr.  
 61461 100 LEC, 17:45-18:35 Th, Room TBA, 12:20-13:10 MWF, Tate Hall B50, In Person Term Based; Vuk Mandic ; 4 cr.

### 1222 Introductory Physics for Life Science Majors II

(Student Option; Prereq: PHYS 1221 or equivalentPHYS)  
 61557 100 LEC, 17:45-18:35 Th, Room TBA, 09:05-09:55 MWF, Tate Hall B50, In Person Term Based; Aaron Wynveen ; 4 cr.  
 61632 102 LAB, 12:20-14:15 M, Tate Hall B74, In Person Term Based; 4 cr.  
 61633 101 DIS, 08:00-08:50 Th, Ford Hall 150, In Person Term Based; 4 cr.  
 61634 200 LEC, 17:45-18:35 Th, Room TBA, 16:40-17:30 MTW, Tate Hall B50, In Person Term Based; Paul Haines ; 4 cr.  
 61746 103 DIS, 08:00-08:50 Th, Ford Hall 130, In Person Term Based; 4 cr.  
 61747 104 LAB, 10:10-12:05 T, Tate Hall B74, In Person Term Based; 4 cr.  
 61748 105 DIS, 08:00-08:50 Th, Bruininks Hall 119, In Person Term Based; 4 cr.  
 61749 106 LAB, 16:40-18:35 T, Tate Hall B74, In Person Term Based; 4 cr.  
 61750 107 DIS, 08:00-08:50 Th, Smith Hall 111, In Person Term Based; 4 cr.  
 61751 108 LAB, 15:35-17:30 W, Tate Hall B74, In Person Term Based; 4 cr.  
 61754 121 DIS, 09:05-09:55 Th, Vincent Hall 301, In Person Term Based; 4 cr.  
 61755 122 LAB, 14:30-16:25 M, Tate Hall B74, In Person Term Based; 4 cr.  
 61756 123 DIS, 09:05-09:55 Th, Vincent Hall 213, In Person Term Based; 4 cr.  
 61757 124 LAB, 12:20-14:15 T, Tate Hall B74, In Person Term Based; 4 cr.  
 61758 125 DIS, 09:05-09:55 Th, Kolthoff Hall 136, In Person Term Based; 4 cr.  
 61759 126 LAB, 10:10-12:05 W, Tate Hall B74, In Person Term Based; 4 cr.  
 61762 129 DIS, 09:05-09:55 Th, Akerman Hall 215, In Person Term Based; 4 cr.  
 61763 130 LAB, 10:10-12:05 M, Tate Hall B74, In Person Term Based; 4 cr.  
 61764 141 DIS, 10:10-11:00 Th, Bruininks Hall 420A, In Person Term Based; 4 cr.  
 61765 142 LAB, 16:40-18:35 M, Tate Hall B74, In Person Term Based; 4 cr.  
 61766 143 DIS, 10:10-11:00 Th, Mechanical Engineering 212, In Person Term Based; 4 cr.  
 61767 144 LAB, 14:30-16:25 T, Tate Hall B74, In Person Term Based; 4 cr.  
 61768 145 DIS, 10:10-11:00 Th, Smith Hall 231, In Person Term Based; 4 cr.  
 61769 146 LAB, 13:25-15:20 W, Tate Hall B74, In Person Term Based; 4 cr.  
 61770 147 DIS, 10:10-11:00 Th, Hubert H. Humphrey School 50A, In Person Term Based; 4 cr.  
 61771 148 LAB, 11:15-13:10 Th, Tate Hall B74, In Person Term Based; 4 cr.  
 61774 203 DIS, 15:35-16:25 Th, Amundson Hall 104, In Person Term Based; 4 cr.  
 61775 204 LAB, 08:00-09:55 T, Tate Hall B63, In Person Term Based; 4 cr.  
 61776 207 DIS, 15:35-16:25 Th, Akerman Hall 319, In Person Term Based; 4 cr.  
 61777 208 LAB, 08:00-09:55 W, Tate Hall B63, In Person Term Based; 4 cr.

61782 223 DIS, 16:40-17:30 Th, Amundson Hall 156, In Person Term Based; 4 cr.  
 61783 224 LAB, 10:10-12:05 T, Tate Hall B63, In Person Term Based; 4 cr.  
 61784 227 DIS, 16:40-17:30 Th, Tate Hall B85, In Person Term Based; 4 cr.  
 61785 228 LAB, 14:30-16:25 W, Tate Hall B63, In Person Term Based; 4 cr.  
 61786 243 DIS, 14:30-15:20 Th, Kolthoff Hall 139, In Person Term Based; 4 cr.  
 61787 244 LAB, 12:20-14:15 T, Tate Hall B63, In Person Term Based; 4 cr.  
 61788 245 DIS, 14:30-15:20 Th, Amundson Hall 158, In Person Term Based; 4 cr.  
 61789 246 LAB, 12:20-14:15 W, Tate Hall B63, In Person Term Based; 4 cr.

### 1301 Introductory Physics for Science and Engineering I

(Student Option; Prereq or concurrent: MATH 1271/1371/1371H or equivalentPHYS)  
 59140 100 LEC, 17:45-18:35 W, Room TBA, 08:00-08:50 MWF, Tate Hall B20, In Person Term Based; Andrew Furmanski ; 4 cr.  
 59141 101 DIS, 08:00-08:50 ThT, Vincent Hall 113, In Person Term Based; 4 cr.  
 59142 102 LAB, 10:10-12:05 M, Tate Hall B61, In Person Term Based; 4 cr.  
 59143 103 DIS, 08:00-08:50 T, Vincent Hall 6, 08:00-08:50 Th, Tate Hall B65, In Person Term Based; 4 cr.  
 59144 104 LAB, 14:30-16:25 M, Tate Hall B61, In Person Term Based; 4 cr.  
 59145 105 DIS, 08:00-08:50 T, Nicholson Hall 145, 08:00-08:50 Th, Tate Hall 120, In Person Term Based; 4 cr.  
 59146 106 LAB, 12:20-14:15 T, Tate Hall B61, In Person Term Based; 4 cr.  
 59147 130 DIS, 08:00-08:50 T, Amundson Hall 120, 09:05-09:55 Th, Ford Hall 115, In Person Term Based; 4 cr.  
 59148 131 LAB, 12:20-14:15 M, Tate Hall B61, In Person Term Based; 4 cr.  
 59149 132 DIS, 08:00-08:50 T, Amundson Hall 124, 09:05-09:55 Th, Ford Hall B10, In Person Term Based; Andrew Furmanski ; 4 cr.  
 59150 133 LAB, 14:30-16:25 T, Tate Hall B61, In Person Term Based; 4 cr.  
 59151 134 DIS, 08:00-08:50 T, Tate Hall 110, 09:05-09:55 Th, Amundson Hall 124, In Person Term Based; 4 cr.  
 59152 135 LAB, 14:30-16:25 W, Tate Hall B61, In Person Term Based; 4 cr.  
 61134 136 DIS, 08:00-08:50 T, Tate Hall 120, 09:05-09:55 Th, Tate Hall B65, In Person Term Based; 4 cr.  
 61135 137 LAB, 14:30-16:25 Th, Tate Hall B61, In Person Term Based; 4 cr.  
 61284 200 LEC, 17:45-18:35 W, Room TBA, 14:30-15:20 MWF, Tate Hall B50, In Person Term Based; Aleksey Cheran ; 4 cr.  
 61314 204 LAB, 08:00-09:55 T, Tate Hall B61, In Person Term Based; 4 cr.  
 61315 220 LAB, 10:10-12:05 T, Tate Hall B61, In Person Term Based; 4 cr.  
 61316 222 LAB, 10:10-12:05 W, Tate Hall B61, In Person Term Based; 4 cr.  
 61317 224 LAB, 08:00-09:55 Th, Tate Hall B61, In Person Term Based; 4 cr.  
 61318 203 DIS, 14:30-15:20 T, Ford Hall B15, 14:30-15:20 Th, Amundson Hall 116, In Person Term Based; 4 cr.  
 61319 205 DIS, 14:30-15:20 ThT, Ford Hall 130, In Person Term Based; 4 cr.  
 61320 221 DIS, 14:30-15:20 T, Appleby Hall 3, 15:35-16:25 Th, Pillsbury Hall 314, In Person Term Based; 4 cr.  
 61321 223 DIS, 14:30-15:20 T, Mechanical Engineering 102, 15:35-16:25 Th, Tate Hall B65, In Person Term Based; 4 cr.  
 61322 206 LAB, 08:00-09:55 W, Tate Hall B61, In Person Term Based; 4 cr.  
 61323 219 DIS, 14:30-15:20 T, Amundson Hall 240, 15:35-16:25 Th, Elliott Hall N647, In Person Term Based; 4 cr.  
 61534 208 LAB, 12:20-14:15 W, Tate Hall B61, In Person Term Based; 4 cr.  
 61535 207 DIS, 14:30-15:20 T, Mechanical Engineering 221, 14:30-15:20 Th, Tate Hall 120, In Person Term Based; 4 cr.  
 61536 225 DIS, 14:30-15:20 T, Tate Hall 120, 15:35-16:25 Th, Tate Hall 120, In Person Term Based; 4 cr.  
 61537 226 LAB, 12:20-14:15 Th, Tate Hall B61, In Person Term Based; 4 cr.  
 68331 107 DIS, 08:00-08:50 ThT, Amundson Hall 240, In Person Term Based; 4 cr.  
 68332 108 LAB, 16:40-18:35 T, Tate Hall B61, In Person Term Based; 4 cr.  
 68349 201 DIS, 14:30-15:20 T, Molecular Cellular Biol 2-120, 14:30-15:20 Th, Akerman Hall 319, In Person Term Based; 4 cr.

68350 202 LAB, 08:00-09:55 M, Tate Hall B61, In Person  
Term Based; 4 cr.

### 1302W Introductory Physics for Science and Engineering II

(Student Option; Prereq: PHYS 1301 or equivalent, Prereq or Concurrent: MATH 1272/1372/1572H or equivalent PHYS, WI)

59153 100 LEC, 17:45-18:35 T, Room TBA, 08:00-08:50 MWF, Tate Hall B50, In Person Term Based; Daniel Cronin-Hennessy ; 4 cr.

59154 101 DIS, 08:00-08:50 Th, Amundson Hall 156, In Person Term Based; 4 cr.

59155 102 LAB, 09:05-11:00 M, Tate Hall B26, In Person Term Based; 4 cr.

59156 103 DIS, 08:00-08:50 Th, Bruininks Hall 420A, In Person Term Based; 4 cr.

59157 104 LAB, 13:25-15:20 M, Tate Hall B26, In Person Term Based; 4 cr.

59158 105 DIS, 08:00-08:50 Th, Akerman Hall 313, In Person Term Based; 4 cr.

59159 106 LAB, 10:10-12:05 T, Tate Hall B23, In Person Term Based; 4 cr.

59160 121 DIS, 09:05-09:55 Th, Akerman Hall 313, In Person Term Based; 4 cr.

59161 122 LAB, 11:15-13:10 M, Tate Hall B26, In Person Term Based; 4 cr.

59162 123 DIS, 09:05-09:55 Th, Akerman Hall 317, In Person Term Based; 4 cr.

59163 124 LAB, 08:00-09:55 T, Tate Hall B26, In Person Term Based; 4 cr.

59164 125 DIS, 09:05-09:55 Th, Mechanical Engineering 102, In Person Term Based; 4 cr.

59165 126 LAB, 12:20-14:15 T, Tate Hall B72, In Person Term Based; 4 cr.

59166 111 DIS, 08:00-08:50 Th, Tate Hall B55, In Person Term Based; 4 cr.

59167 112 LAB, 14:30-16:25 W, Tate Hall B26, In Person Term Based; 4 cr.

59168 129 DIS, 09:05-09:55 Th, Appleby Hall 226, In Person Term Based; 4 cr.

59169 130 LAB, 12:20-14:15 Th, Tate Hall B23, In Person Term Based; 4 cr.

59170 300 LEC, 17:45-18:35 T, Room TBA, 11:15-12:05 MWF, Tate Hall B50, In Person Term Based; Gregory Pawloski ; 4 cr.

59171 301 DIS, 10:10-11:00 Th, Bruininks Hall 123, In Person Term Based; 4 cr.

59172 302 LAB, 08:00-09:55 M, Tate Hall B72, In Person Term Based; 4 cr.

59173 303 DIS, 10:10-11:00 Th, Blegen Hall 115, In Person Term Based; 4 cr.

59174 304 LAB, 14:30-16:25 M, Tate Hall B72, In Person Term Based; 4 cr.

59175 305 DIS, 10:10-11:00 Th, Hubert H. Humphrey School 35, In Person Term Based; 4 cr.

59176 306 LAB, 12:20-14:15 T, Tate Hall B23, In Person Term Based; 4 cr.

59177 307 DIS, 10:10-11:00 Th, Blegen Hall 140, In Person Term Based; 4 cr.

59178 308 LAB, 08:00-09:55 W, Tate Hall B72, In Person Term Based; 4 cr.

59179 309 DIS, 10:10-11:00 Th, Blegen Hall 425, In Person Term Based; 4 cr.

59180 310 LAB, 14:30-16:25 W, Tate Hall B23, In Person Term Based; 4 cr.

59181 311 DIS, 10:10-11:00 Th, Blegen Hall 155, In Person Term Based; 4 cr.

59182 312 LAB, 08:00-09:55 Th, Tate Hall B72, In Person Term Based; 4 cr.

59183 329 DIS, 11:15-12:05 Th, Amundson Hall 156, In Person Term Based; 4 cr.

59184 330 LAB, 12:20-14:15 M, Tate Hall B72, In Person Term Based; 4 cr.

59185 331 DIS, 11:15-12:05 Th, Mechanical Engineering 25, In Person Term Based; 4 cr.

59186 332 LAB, 16:40-18:35 M, Tate Hall B72, In Person Term Based; 4 cr.

59187 333 DIS, 11:15-12:05 Th, Bruininks Hall 530A, In Person Term Based; 4 cr.

59188 334 LAB, 10:10-12:05 T, Tate Hall B26, In Person Term Based; 4 cr.

59189 335 DIS, 11:15-12:05 Th, Burton Hall 120, In Person Term Based; 4 cr.

59190 336 LAB, 12:20-14:15 W, Tate Hall B23, In Person Term Based; 4 cr.

59191 337 DIS, 11:15-12:05 Th, Nicholson Hall 115, In Person Term Based; 4 cr.

59192 338 LAB, 16:40-18:35 W, Tate Hall B26, In Person Term Based; 4 cr.

59528 107 DIS, 08:00-08:50 Th, Akerman Hall 317, In Person Term Based; 4 cr.

59529 108 LAB, 14:30-16:25 T, Tate Hall B26, In Person Term Based; 4 cr.

59530 109 DIS, 08:00-08:50 Th, Tate Hall B85, In Person Term Based; 4 cr.

59531 110 LAB, 10:10-12:05 W, Tate Hall B26, In Person Term Based; 4 cr.

59532 127 DIS, 09:05-09:55 Th, Mechanical Engineering 25, In Person Term Based; 4 cr.

59533 128 LAB, 12:20-14:15 W, Tate Hall B26, In Person Term Based; 4 cr.

60949 600 LEC, 17:45-18:35 T, Room TBA, 17:45-19:00 MW, ONLINE BLENDED, Partially Online; James Kakalios ; 4 cr.

60950 601 DIS, 19:15-20:05 M, Twin Cities Remote, Completely Online; 4 cr.

60951 602 LAB, 15:35-17:30 M, Tate Hall B26, In Person Term Based; 4 cr.

60954 605 DIS, 19:15-20:05 M, Twin Cities Remote, Completely Online; 4 cr.

60955 606 LAB, 14:30-16:25 T, Tate Hall B23, In Person Term Based; 4 cr.

60956 607 DIS, 19:15-20:05 M, Twin Cities Remote, Completely Online; 4 cr.

60957 608 LAB, 15:35-17:30 W, Tate Hall B72, In Person Term Based; 4 cr.

60960 623 DIS, 20:15-21:05 M, Twin Cities Remote, Completely Online; 4 cr.

60961 624 LAB, 12:20-14:15 T, Tate Hall B26, In Person Term Based; 4 cr.

60962 625 DIS, 20:15-21:05 M, Twin Cities Remote, Completely Online; 4 cr.

60963 626 LAB, 09:05-11:00 W, Tate Hall B23, In Person Term Based; 4 cr.

61138 131 DIS, 09:05-09:55 Th, Appleby Hall 319, In Person Term Based; 4 cr.

61139 132 LAB, 09:05-11:00 F, Tate Hall B26, In Person Term Based; 4 cr.

61140 313 DIS, 10:10-11:00 Th, Blegen Hall 317, In Person Term Based; 4 cr.

61141 314 LAB, 14:30-16:25 Th, Tate Hall B72, In Person Term Based; 4 cr.

61144 629 DIS, 20:15-21:05 M, Twin Cities Remote, Completely Online; 4 cr.

61145 630 LAB, 13:25-15:20 Th, Tate Hall B26, In Person Term Based; 4 cr.

61285 200 LEC, 17:45-18:35 T, Room TBA, 10:10-11:00 MWF, Tate Hall B50, In Person Term Based; Marvin Marshak ; 4 cr.

61324 203 DIS, 09:05-09:55 Th, Keller Hall 2-260, In Person Term Based; 4 cr.

61325 205 DIS, 09:05-09:55 Th, Ford Hall 130, In Person Term Based; 4 cr.

61326 208 LAB, 08:00-09:55 W, Tate Hall B26, In Person Term Based; 4 cr.

61327 212 LAB, 16:40-18:35 W, Tate Hall B23, In Person Term Based; 4 cr.

61328 206 LAB, 08:00-09:55 T, Tate Hall B23, In Person Term Based; 4 cr.

61329 202 LAB, 08:00-09:55 M, Tate Hall B23, In Person Term Based; 4 cr.

61330 207 DIS, 09:05-09:55 Th, Rapson Hall 58, In Person Term Based; 4 cr.

61331 201 DIS, 09:05-09:55 Th, Bruininks Hall 512B, In Person Term Based; 4 cr.

61332 230 LAB, 14:30-16:25 Th, Tate Hall B23, In Person Term Based; 4 cr.

61333 228 LAB, 13:25-15:20 W, Tate Hall B72, In Person Term Based; 4 cr.

61334 226 LAB, 14:30-16:25 T, Tate Hall B72, In Person Term Based; 4 cr.

61335 224 LAB, 10:10-12:05 T, Tate Hall B72, In Person Term Based; 4 cr.

61336 222 LAB, 16:40-18:35 M, Tate Hall B23, In Person Term Based; 4 cr.

61337 211 DIS, 09:05-09:55 Th, Ford Hall 150, In Person Term Based; 4 cr.

61338 209 DIS, 09:05-09:55 Th, Elliott Hall N647, In Person Term Based; 4 cr.

61339 213 DIS, 09:05-09:55 Th, Folwell Hall 12, In Person Term Based; 4 cr.

61340 219 DIS, 10:10-11:00 Th, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.

61341 221 DIS, 10:10-11:00 Th, Blegen Hall 415, In Person Term Based; 4 cr.

61342 223 DIS, 10:10-11:00 Th, Blegen Hall 435, In Person Term Based; 4 cr.

61343 225 DIS, 10:10-11:00 Th, Blegen Hall 135, In Person Term Based; 4 cr.

61344 227 DIS, 10:10-11:00 Th, Kolthoff Hall 136, In Person Term Based; 4 cr.

61345 229 DIS, 10:10-11:00 Th, Bruininks Hall 121, In Person Term Based; 4 cr.

61346 204 LAB, 14:30-16:25 M, Tate Hall B23, In Person Term Based; 4 cr.

61347 210 LAB, 11:15-13:10 W, Tate Hall B72, In Person Term Based; 4 cr.

61348 214 LAB, 11:15-13:10 Th, Tate Hall B26, In Person Term Based; 4 cr.

61349 220 LAB, 12:20-14:15 M, Tate Hall B23, In Person Term Based; 4 cr.

61414 611 DIS, 19:15-20:05 M, Twin Cities Remote, Completely Online; 4 cr.

61415 612 LAB, 10:10-12:05 Th, Tate Hall B23, In Person Term Based; 4 cr.

61416 613 DIS, 19:15-20:05 M, Twin Cities Remote, Completely Online; 4 cr.

61417 614 LAB, 15:35-17:30 Th, Tate Hall B26, In Person Term Based; 4 cr.

61418 631 DIS, 20:15-21:05 M, Twin Cities Remote, Completely Online; 4 cr.

61419 632 LAB, 17:45-19:40 Th, Tate Hall B26, In Person Term Based; 4 cr.

61538 339 DIS, 11:15-12:05 Th, Kolthoff Hall 137, In Person Term Based; 4 cr.

61539 340 LAB, 12:20-14:15 Th, Tate Hall B72, In Person Term Based; 4 cr.

### 1402V Honors Physics II

(A-F only; Prereq or CC: MATH 1272/1372/1572H or equivalent PHYS, WI)

59194 002 DIS, 11:15-12:05 Th, Blegen Hall 220, In Person Term Based; 4 cr.

59195 003 DIS, 11:15-12:05 Th, Akerman Hall 227, In Person Term Based; 4 cr.

59196 005 DIS, 12:20-13:10 Th, Kolthoff Hall 138, In Person Term Based; 4 cr.

59197 101 LAB, 08:00-09:55 M, Tate Hall B82, In Person Term Based; 4 cr.

59198 102 LAB, 13:25-15:20 M, Tate Hall B82, In Person Term Based; 4 cr.

59199 103 LAB, 09:05-11:00 T, Tate Hall B82, In Person Term Based; 4 cr.

59200 104 LAB, 12:20-14:15 T, Tate Hall B82, In Person Term Based; 4 cr.

59201 105 LAB, 14:30-16:25 W, Tate Hall B82, In Person Term Based; 4 cr.

59202 106 LAB, 16:40-18:35 W, Tate Hall B82, In Person Term Based; 4 cr.

59703 001 LEC, 11:15-12:05 MTWF, Tate Hall B20, In Person Term Based; Aaron Wynveen ; 4 cr.

60727 006 DIS, 12:20-13:10 Th, Burton Hall 123, In Person Term Based; 4 cr.

### 1910W What is Time?

(Student Option; WI)

66431 001 LEC, 10:10-11:00 MW, Tate Hall B55, In Person Term Based; J Halley ; 2 cr.

### 2303 Physics III: Physics of Matter

(Student Option; Prereq: 1302, [MATH 1272 or MATH 1372 or MATH 1572H], [MatSci or EE] student)

59193 001 LEC, 15:35-16:25 MTWF, Tate Hall B50, In Person Term Based; Cheng-Cher Huang ; 4 cr.

### 2601 Quantum Physics

(Student Option; Prereq: PHYS2503/2503H,

Recommended Concurrent: Phys 3041)

59784 001 LEC, 14:30-15:20 MWF, Tate Hall 105, In Person Term Based; Fiona Burnell ; 4 cr.

59785 003 DIS, 08:00-08:50 T, Tate Hall B85, In Person Term Based; 4 cr.

59786 004 DIS, 09:05-09:55 T, Vincent Hall 364, In Person Term Based; 4 cr.

59787 005 DIS, 10:10-11:00 T, Blegen Hall 205, In Person Term Based; 4 cr.

60634 006 DIS, 11:15-12:05 T, Vincent Hall 209, In Person Term Based; 4 cr.

60826 007 DIS, 13:25-14:15 T, Amundson Hall 120, In Person Term Based; 4 cr.

### 3041 Mathematical Methods for Physicists

(Student Option; Prereq or CC: MATH 2263/2374/2573H or equivalent, Recommended Prereq: 2503/2503H,

Recommended CC: PHYS 2601)

61354 001 LEC, 13:25-14:15 MWF, Tate Hall 101, In Person Term Based; Daniel Cronin-Hennessy ; 3 cr.

### 3071W Laboratory-Based Physics for Teachers

(Student Option; Prereq: College algebra; no credit for CSE students or students who have completed PHYS 1201/1202, PHYS 1301/1301, PHYS 1401/1402, or PHYS 1501/1502, PHYS, WI)

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

60825 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Jon Anderson ; 4 cr.

61359 004 LAB, 10:10-13:10 W, Tate Hall B40, In Person Term Based; 3 cr.  
 61360 005 LAB, 08:00-11:00 Th, Tate Hall B40, In Person Term Based; 3 cr.  
 61361 006 LAB, 09:05-12:05 F, Tate Hall B40, In Person Term Based; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent, dept consent)  
 59371 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**3994 Directed Research**

(Student Option; Prereq: instr consent, dept consent)  
 59374 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**4001 Analytical Mechanics**

(Student Option; Prerequisites developed as required. prereq: PHYS 2503/2503H or equivalent, PHYS 304)  
 61210 001 LEC, 12:20-13:10 MWF, Tate Hall B65, In Person Term Based; Meets With: 003 PHYS 4002; 4 cr.  
 61211 002 DIS, 12:20-13:10 Th, Ford Hall 150, In Person Term Based; 4 cr.

**4002 Electricity and Magnetism**

(Student Option; Prereq: PHYS 3041, PHYS 2503/2503H or equivalent)  
 59203 001 LEC, 10:10-11:00 MWF, Tate Hall 110, In Person Term Based; Shaul Hanany ; 4 cr.  
 59738 002 DIS, 08:00-08:50 T, Tate Hall B45, In Person Term Based; Meets With: 003 PHYS 4002; 4 cr.  
 59754 003 DIS, 08:00-08:50 T, Tate Hall B45, In Person Term Based; Meets With: 002 PHYS 4002; 4 cr.  
 60635 004 DIS, 09:05-09:55 T, Kolthoff Hall 136, In Person Term Based; 4 cr.  
 60817 005 DIS, 09:05-09:55 T, Vincent Hall 213, In Person Term Based; 4 cr.

**4051 Methods of Experimental Physics I**

(Student Option; Prereq or Concurrent PHYS 3605W, PHYS 3041)  
 61177 001 LEC, 09:05-09:55 MWF, Tate Hall B55, In Person Term Based; E Dahlberg ; 5 cr.  
 61178 002 LAB, 13:25-15:20 TTh, Tate Hall B30-07, In Person Term Based; 5 cr.  
 61179 003 LAB, 09:05-11:00 TTh, Tate Hall B30-07, In Person Term Based; 5 cr.

**4052W Methods of Experimental Physics II**

(Student Option; Prereq: PHYS 4051W)  
 59204 001 LEC, 14:30-15:20 MWF, Tate Hall 110, In Person Term Based; Joachim Mueller ; 5 cr.  
 59205 002 LAB, 10:10-12:05 TTh, Tate Hall B30, In Person Term Based; 5 cr.  
 59206 003 LAB, 12:20-14:15 MW, Tate Hall B30, In Person Term Based; 5 cr.  
 59730 004 LAB, 14:30-16:25 TTh, Tate Hall B30, In Person Term Based; 5 cr.  
 60636 005 LAB, 08:00-09:55 MW, Tate Hall B30, In Person Term Based; 5 cr.

**4101 Quantum Mechanics**

(Student Option; Prereq: PHYS 3041, PHYS 2601)  
 61821 100 LEC, 11:15-12:05 MWF, Tate Hall 110, In Person Term Based; Vlad Pribiag ; 4 cr.  
 61822 102 DIS, 11:15-12:05 Th, Tate Hall B55, In Person Term Based; 4 cr.  
 61823 103 DIS, 10:10-11:00 Th, Bruininks Hall 144, In Person Term Based; 4 cr.

**4121W History of 20th-Century Physics**

(Student Option; WI)  
 61194 001 LEC, 16:40-19:20 Th, Tate Hall 110, In Person Term Based; Meets With: 001 HSCI 4121W; Michel Janssen ; 3 cr.

**4211 Introduction to Solid-State Physics**

(Student Option; Prereq: 2201, 4101)  
 59207 001 LEC, 11:15-12:30 TTh, Tate Hall B45, In Person Term Based; Ke Wang ; 3 cr.

**4303 Electrodynamics and Waves**

(Student Option; Prereq: PHYS 4002)  
 61463 001 LEC, 12:20-13:10 MWF, Tate Hall 110, In Person Term Based; Oriol Valls ; 3 cr.

**4501 Experimental Project**

(Student Option; Prereq: 4052, instr consent)  
 59208 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**4611 Introduction to Space Physics**

(Student Option; Prereq: PHYS 4001, PHYS 4002)

66432 001 LEC, 13:25-14:15 MWF, Tate Hall B55, In Person Term Based; Lindsay Glesener ; 3 cr.

**4894 Thesis - Directed Research**

(S-N or Audit; )  
 59755 001 IND, 00:00-00:00 , , In Person Term Based; Daniel Cronin-Hennessy ; 1-3 cr.

**4911 Introduction to Biopolymer Physics**

(Student Option; Prereq: PHYS 2201 or equivalent)  
 61286 001 LEC, 13:00-14:15 TTh, Tate Hall B55, In Person Term Based; Meets With: 001 PHYS 5081; Elias Puchner ; 3 cr.

**4960H Honors Seminar**

(Student Option No Audit; Prereq: Upper div honors, instr consent)  
 60889 001 LEC, In Person Term Based; Daniel Cronin-Hennessy ; 1 cr.

**4993 Directed Studies**

(Student Option; Prereq: instr consent)  
 60291 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**4994 Directed Research**

(Student Option; Prereq: instr consent)  
 60292 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.  
 61928 002 IND, In Person Term Based; 1-5 cr.

**5002 Quantum Mechanics II**

(Student Option; Prereq: 5001 or equiv)  
 59379 001 LEC, 09:05-09:55 MWF, Tate Hall B65, In Person Term Based; Natalia Perkins ; 4 cr.  
 60643 002 DIS, 08:00-08:50 T, Tate Hall B65, In Person Term Based; 4 cr.  
 60644 003 DIS, 09:05-09:55 T, Tate Hall B65, In Person Term Based; 4 cr.

**5012 Classical Physics II**

(Student Option; Prereq: 5011 or instr consent)  
 59380 001 LEC, 10:10-11:00 MTWF, Tate Hall B65, In Person Term Based; Robert Lysak ; 4 cr.

**5041 Mathematical Methods for Physics**

(Student Option; Prereq: 2601 or grad student)  
 61037 001 LEC, 11:15-12:05 MTWF, Tate Hall B55, In Person Term Based; Tony Gherghetta ; 4 cr.

**5072 Best Practices in College Physics Teaching**

(Student Option; )  
 60411 001 DIS, 15:35-16:25 M, Tate Hall 110, In Person Term Based; Elias Puchner ; 1-3 cr.

**5081 Introduction to Biopolymer Physics**

(Student Option; Prereq: PHYS 2201 or equivalent)  
 61287 001 LEC, 13:00-14:15 TTh, Tate Hall B55, In Person Term Based; Meets With: 001 PHYS 4911; Elias Puchner ; 3 cr.

**5701 Solid-State Physics for Engineers and Scientists**

(Student Option; Prereq: Grad or advanced undergrad in physics or engineering or the sciences)  
 60824 001 LEC, 09:45-11:00 TTh, Tate Hall B45, In Person Term Based; Michael Zudov ; 4 cr.

**5950 Colloquium Seminar**

(S-N or Audit; Prereq: [Grad student or advanced undergrad in physics], dept consent)  
 59375 001 LEC, 15:35-17:30 Th, Tate Hall B50, In Person Term Based; 1 cr.

**5970 Physics Journal Club**

(S-N only; Prereq: 2601, 2605 or equiv; intended for 2nd-yr grad students in physics)  
 60759 001 LEC, 15:35-16:25 M, Tate Hall B55, In Person Term Based; 1-3 cr.

**5980 Introduction to Research Seminar**

(S-N or Audit; Prereq: Grad or upper div phys major)  
 60633 001 LEC, 16:40-17:30 F, Tate Hall B45, In Person Term Based; Andrew Furmanski ; 1 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent, dept consent)  
 59372 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.  
 61800 002 IND, In Person Term Based; 1-5 cr.  
 69649 003 IND, In Person Term Based; 1-5 cr.

**5994 Directed Research**

(Student Option; Prereq: Jr, dept consent)  
 59373 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.  
 69214 002 IND, In Person Term Based; 1-5 cr.  
 69387 003 IND, In Person Term Based; 1-5 cr.  
 69524 004 IND, In Person Term Based; 1-5 cr.

**Physiology (PHSL)****2041 Physiology and Medicine**

(A-F only; )  
 69554 001 LEC, 09:05-09:55 WF, AHC ROOM TBA, In Person Term Based; Vincent Barnett ; 2 cr.

**3051 Human Physiology**

(Student Option; Prereq: [BIOL 1009 or 1 yr college bio], 1 yr college chem)  
 62317 001 LEC, 14:30-15:20 MWF, Moos Health Sci Tower 2-650, In Person Term Based; Dalay Olson ; 4 cr.  
 62318 002 LAB, 09:05-11:00 T, Moos Health Sci Tower 3-110, In Person Term Based; Dalay Olson ; 4 cr.  
 62571 005 LAB, 15:35-17:30 T, Moos Health Sci Tower 3-110, In Person Term Based; 4 cr.  
 62606 003 LAB, 13:25-15:20 T, Moos Health Sci Tower 3-110, In Person Term Based; 4 cr.

**3062W Research Paper for Physiology Majors**

(A-F or Audit; Prereq: concurrent registration is required (or allowed) in 3061, physiology major, 1 yr [college chem, physics], math through integral calculus(WI))  
 63325 001 IND, 11:15-12:05 W, Mayo Bldg & Additions 3-125, In Person Term Based; Vincent Barnett ; 1 cr.

**3095 Problems in Physiology**

(Student Option; Prereq: concurrent registration is required (or allowed) in college physiology, instr consent)  
 62463 001 IND, 00:00-00:00 , , Independent/Directed Study; Vincent Barnett ; 1-5 cr.

**4021 Advanced Physiology and Bioengineering: Bionic Human**

(A-F only; )  
 62610 001 LEC, 11:15-12:30 TTh, Bruininks Hall 530B, In Person Term Based; Meets With: 002 PHSL 4021; Susan Keirstead ; 3 cr.  
 63267 002 LEC, 11:15-12:30 TTh, Bruininks Hall 530B, In Person Term Based; Meets With: 001 PHSL 4021; Susan Keirstead ; 3 cr.

**4031 Physiological Discussions: Contemporary Topics**

(A-F only; Prereq: 3061 or 3063 or 5061 or instr consent)  
 62632 001 DIS, 09:30-11:00 Th, Mayo Bldg & Additions 1250, In Person Term Based; Vincent Barnett ; 2 cr.

**4095H Honors Problems in Physiology**

(A-F or Audit; Prereq &3061, physiology honors candidate, approval of director of undergrad studies in physiology.)  
 62315 001 IND, 00:00-00:00 , , Independent/Directed Study; Vincent Barnett ; 2-4 cr.

**4221 Systems and Computational**

**Physiology**  
 (Student Option; )  
 69147 001 LEC, 10:10-11:25 MW, Moos Health Sci Tower 2-580, In Person Term Based; Meets With: 001 PHSL 5221; Eric Batchelor ; 3 cr.

**4242 Professional Skills Development for Biomedical Scientists**

(A-F only; Prereq: PHSL 3062W is recommended.)  
 63212 001 DIS, In Person Term Based; 2 cr.

**4900 Advanced Physiology Teaching**

**Laboratory**  
 (A-F only; Prereq: [3051 or [3061, 3071]], instr consent)  
 62686 001 LAB, 12:20-13:10 M, Moos Health Sci Tower 3-110, In Person Term Based; 1-6 cr.

**5094 Research in Physiology**

(Student Option; Prereq: instr consent)  
 62387 001 IND, 00:00-00:00 , , Independent/Directed Study; Vincent Barnett ; 1-5 cr.  
 62464 002 IND, 00:00-00:00 , , Independent/Directed Study; Stephen Katz ; 1-5 cr.

**5095 Problems in Physiology****(Student Option; Prereq: instr consent)**

62316 001 IND, 00:00-00:00 , , Independent/Directed Study; Vincent Barnett ; 1-5 cr.  
62465 002 IND, 00:00-00:00 , , Independent/Directed Study; Stephen Katz ; 1-5 cr.

**5096 Integrative Biology and Physiology Research Advances****(A-F only; Prereq: instr consent)**

62684 001 LEC, 12:00-13:00 Th, Room TBA, In Person Term Based; DeWayne Townsend ; 1 cr.

**5101 Human Physiology****(Student Option; Prereq: Grad student)**

62457 001 LEC, In Person Term Based; 5 cr.  
62458 002 LAB, In Person Term Based; 5 cr.  
62459 003 LAB, In Person Term Based; 5 cr.

**5116 Clinical Physiology II****(A-F or Audit; Prereq: instr consent)**

62530 001 LEC, 13:25-16:20 F, Bruininks Hall 512B, In Person Term Based; Lisa Anderson ; 3 cr.

**5197 Stress Physiology**

**(A-F only; Prerequisite: instructor consent is required. Graduate student standing, master students, and post-doctoral fellows (if they are eligible for credits). Undergraduate students must have taken PHSL 3061 or equivalent, and have previous laboratory research experience.)**

62692 001 DIS, 10:10-11:00 T, AHC ROOM TBA, In Person Term Based; Alessandro Bartolomucci ; 1-3 cr.

**5211 Physiology of Inflammation in Disease****(A-F only; )**

66784 001 DIS, 13:25-16:25 T, Jackson Hall 2-137, In Person Term Based; Xavier Revelo ; 3 cr.

**5221 Systems and Computational Physiology****(A-F only; )**

67724 001 LEC, 10:10-11:25 MW, Moos Health Sci Tower 2-580, In Person Term Based; Meets With: 001 PHSL 4221; Eric Batchelor ; 3 cr.

**5444 Muscle****(Student Option; Prereq: 3061 or 3071 or 5061 or BioC 3021 or BioC 4331 or instr consent)**

62428 001 LEC, 16:00-17:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 BIOC 5444; Vincent Barnett, David Thomas ; 3 cr.

**5510 Advanced Cardiac Physiology and Anatomy****(Student Option; Prereq: instr consent)**

62461 001 LAB, 08:00-17:00 MTWThF, Mayo Bldg & Additions Auditori, 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)**

62651 001 LAB, 08:30-16:00 WThF, Nils Hasselmo Hall 2-101, In Person Term Based; Mark Cook ; 1-2 cr.

**Plant Pathology (PLPA)****2001 Introductory Plant Pathology****(Student Option; Prereq: BIOL 1009 or equiv)**

56724 001 LEC, 10:40-11:30 M, ONLINE BLENDED, 10:40-11:30 W, Borlaug Hall 365, Partially Online; Ruth Dill-Macky ; 3 cr.  
56725 002 LAB, 11:45-13:40 W, Plant Growth Facility 136, In Person Term Based; Ruth Dill-Macky ; 3 cr.  
56726 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)**

57138 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Brett Arenz ; 3 cr.  
69551 002 DIS, 12:20-13:10 T, Twin Cities Remote, Completely Online; Brett Arenz ; 3 cr.  
69557 003 DIS, 13:55-14:45 T, Twin Cities Remote, Completely Online; Brett Arenz ; 3 cr.

69558 004 DIS, 09:05-09:55 W, Twin Cities Remote,

Completely Online; Brett Arenz ; 3 cr.

69559 005 DIS, 15:00-15:50 W, Twin Cities Remote,

Completely Online; Brett Arenz ; 3 cr.

**3003 Diseases of Forest and Shade Trees (Student Option; )**

56723 001 LEC, 08:30-09:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 PLPA 5003; Robert Blanchette ; 3 cr.

57010 002 LAB, 15:10-17:00 W, Borlaug Hall 295, In Person Term Based; Meets With: 002 PLPA 5003; Robert Blanchette ; 3 cr.

68351 003 LAB, 13:00-15:00 W, , In Person Term Based; Robert Blanchette ; 3 cr.

**3993 Directed Study****(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )**

69696 001 IND, In Person Term Based; Brian Steffenson ; 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)**

56777 001 FWK, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**5003 Diseases of Forest and Shade Trees (Student Option; )**

56813 001 LEC, 08:30-09:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 PLPA 3003; Robert Blanchette ; 3 cr.

56814 002 LAB, 15:10-17:00 W, Borlaug Hall 295, In Person Term Based; Meets With: 002 PLPA 3003; Robert Blanchette ; 3 cr.

68358 003 LAB, 13:00-15:00 W, Borlaug Hall 295, In Person Term Based; Robert Blanchette ; 3 cr.

**5100 Topics in Plant Pathology****(A-F or Audit; )**

69372 001 LEC, 15:30-16:30 TTh, Stakman Hall P302, In Person Term Based; James Kurle ; 1-4 cr.

**5103 Plant-Microbe Interactions****(Student Option; Prereq: Intro course in plant pathology or molecular biology or equiv)**

57249 001 LEC, 10:15-11:30 TTh, Borlaug Hall 491, In Person Term Based; Meets With: 001 PLPA 8103; Ashish Ranjan ; 3 cr.

**5300 Current Topics in Molecular Plant Pathology****(S-N only; Prereq: Introductory courses in plant pathology or microbiology; genetics; molecular biology or genomics; or consent of instructor)**

57113 001 LEC, 11:45-12:35 W, Twin Cities Remote, Completely Online; Jim Bradeen ; 1 cr.

**5444 Ecology, Epidemiology, and Evolutionary Biology of Plant-Microbe Interactions****(A-F or Audit; Prereq: Intro plant pathology or advanced biology coursework recommended)**

67751 001 LEC, 13:00-14:15 T, Borlaug Hall 491, In Person Term Based; Linda Kinkel ; 3 cr.

67753 002 DIS, 13:00-15:30 Th, Borlaug Hall 491, In Person Term Based; Linda Kinkel ; 3 cr.

**5660 Plant Disease Resistance and Applications****(A-F or Audit; Prereq: 2001, BIOL 4003)**

57080 001 LEC, 13:00-14:15 MW, Borlaug Hall 491, In Person Term Based; Brian Steffenson ; 3 cr.  
57081 002 DIS, 14:20-15:10 W, Borlaug Hall 491, In Person Term Based; Brian Steffenson ; 3 cr.

**Plant Science (PLSC)****3005W Introduction to Plant Physiology****(Student Option; Prerequisites: Biol 1009 or Hort 1001 and BioC 3021 or Hort 2100 or BioC 2011WI)**

56740 001 LEC, Completely Online; M. Walid Sadok ; 4 cr.  
56953 002 LAB, 12:50-14:30 Th, Alderman Hall 405, In Person Term Based; M. Walid Sadok ; 4 cr.

**3093 Directed Study****(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )**

57475 001 IND, In Person Term Based; 1-4 cr.

**3094 Directed Research****(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )**

57476 001 IND, In Person Term Based; 1-4 cr.

**3401 Plant Genetics and Breeding****(Student Option; Prerequisites: BIOL 1009 or 1009H)**

57244 001 LEC, 08:30-09:20 MWF, Alderman Hall 405, In Person Term Based; Aaron Lorenz ; 4 cr.  
57260 002 LAB, 08:30-10:00 Th, Plant Growth Facility 132, In Person Term Based; Aaron Lorenz ; 4 cr.  
57261 003 LAB, 10:40-12:10 Th, Plant Growth Facility 132, In Person Term Based; Aaron Lorenz ; 4 cr.

**Plant and Microbial Biology (PMB)****3002 Plant Biology: Function****(Student Option; Prereq: [1002 or 1009 or 2003 or equiv], [CHEM 1011 or one semester chemistry with some organic content])**

50604 001 LEC, 16:05-16:55 MW, Hodson Hall 495, In Person Term Based; Neil Olszewski ; 2 cr.  
50684 002 LEC, 12:50-13:40 TTh, Hodson Hall 495, In Person Term Based; Neil Olszewski ; 2 cr.

**3005W Plant Function Laboratory****(Student Option; Prereq: BIOL 1009, BIOL 2003, or equiv.WI)**

50605 001 LEC, 15:00-15:50 M, Biological Sciences Ctr 64, In Person Term Based; Kathleen Greenham ; 2 cr.  
50606 002 LAB, 09:30-12:30 T, Biological Sciences Ctr 176, In Person Term Based; 2 cr.  
50623 003 LAB, 16:30-19:30 T, Biological Sciences Ctr 176, In Person Term Based; 2 cr.  
50671 005 LAB, 13:55-16:55 Th, Biological Sciences Ctr 176, In Person Term Based; 2 cr.  
50843 004 LAB, 09:30-12:30 Th, Biological Sciences Ctr 176, In Person Term Based; 2 cr.

**4121 Microbial Ecology and Applied Microbiology****(A-F or Audit; Prereq: 3301)**

50669 001 LEC, 11:45-13:00 TTh, Ecology Building 170, In Person Term Based; Trinity Hamilton ; 3 cr.

**4131 Prokaryotic Genetics****(Student Option; )**

50937 001 LEC, 14:00-15:15 MW, Biological Sciences Ctr 257, In Person Term Based; Meets With: 001 PMB 5131; Jeffrey Gralnick, Kathryn Fixen ; 3 cr.

**4511 Flowering Plant Diversity****(Student Option; Prereq: BIOL 1001 or 1009 or 1009H or 2002)**

50931 001 LEC, 12:00-12:50 TTh, Biological Sciences Ctr 257, In Person Term Based; George Weiblen ; 3 cr.  
50932 002 LAB, 09:35-12:35 F, Plant Growth Facility 174, In Person Term Based; George Weiblen ; 3 cr.  
50933 003 LAB, 13:55-16:55 F, Plant Growth Facility 174, In Person Term Based; George Weiblen ; 3 cr.

**4793W Directed Studies: Writing Intensive****(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements. WI)**

50638 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.  
69617 002 IND, In Person Term Based; 1-7 cr.

**4794W Directed Research: Writing Intensive****(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements. WI)**

50639 001 IND, In Person Term Based; 1-7 cr.  
50999 002 IND, In Person Term Based; 1-7 cr.

**4993 Directed Studies****(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793W, 4794W, 4993, 4994 counts towards CBS major requirements.)**

50602 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

**4994 Directed Research**

(S-N only; Prereq: department consent, instructor consent, no more than 7 credits of 4793, 4794, 4993W, 4994W counts towards CBS major requirements.)

50603 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

**5131 Prokaryotic Genetics**

(Student Option; Prereq.: Introductory microbiology course.)

66158 001 LEC, 14:00-15:15 MW, Biological Sciences Ctr 257, In Person Term Based; Meets With: 001 PMB 4131; Jeffrey Gralnick, Kathryn Fixen ; 3 cr.

**5802 Field Microbiology at Itasca Biological Research Station**

(A-F only; )

66159 001 IND, 08:00-11:50 MTWF, Room TBA, In Person Term Based; James Cotner, Jeffrey Gralnick ; 3 cr.

**5812 Field Mycology**

(A-F only; )

66160 001 LEC, 13:00-16:50 MTWF, Biological Sciences Ctr 257, In Person Term Based; Peter Kennedy, Jonathan Schilling ; 3 cr.

**Political Science (POL)****1001 American Democracy in a Changing World**

(Student Option; SOCS)

53838 001 LEC, 08:15-09:30 MW, Anderson Hall 250, In Person Term Based; Scott Abernathy ; 3 cr.

**1025 Global Politics**

(Student Option; GP,SOCS)

52639 001 LEC, 11:15-12:05 MWF, Blegen Hall 5, In Person Term Based; Carl Graefe ; 3 cr.

**1026 U.S. Foreign Policy**

(Student Option; )

55380 001 LEC, 09:45-11:00 MW, Blegen Hall 10, In Person Term Based; Tracey Blasenheim ; 3 cr.

**1054 Politics Around the World**

(Student Option; GP,SOCS)

54262 001 LEC, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Anoop Sarbahi ; 3 cr.

**1201 Political Ideas**

(Student Option; CIV,HIS)

52605 001 LEC, 11:15-12:30 MW, Anderson Hall 330, In Person Term Based; Nancy Luxon ; 3 cr.

**3065 Political Engagement Careers:**

**Planning and Preparing For Your Future**  
(Student Option; CIV)

55105 001 LEC, 13:00-14:15 WF, Blegen Hall 145, In Person Term Based; Paul Soper ; 3 cr.

**3080 Internship in Politics or Government**

(A-F only; Prereq: instr consent, dept consent)

52604 001 FWK, 00:00-00:00 , , In Person Term Based; Paul Soper ; 3-13 cr.

**3085 Quantitative Analysis in Political Science**

(A-F or Audit; MATH)

53689 001 LEC, 08:15-09:30 TTh, Blegen Hall 235, In Person Term Based; Jane Sumner ; 4 cr.  
54147 002 DIS, 10:10-11:00 Th, Blegen Hall 330, In Person Term Based; Jane Sumner ; 4 cr.  
54402 003 DIS, 11:15-12:05 Th, Blegen Hall 140, In Person Term Based; Jane Sumner ; 4 cr.

**3108H Honors Tutorial: Thesis Preparation and Political Science Inquiry**

(A-F only; Prereq: Pol sci major, honors)

54643 001 LEC, 09:30-12:00 F, Hubert H. Humphrey School 30, In Person Term Based; Dan Myers ; 3 cr.

**3135 Political Dynamics in the Horn of Africa**

(Student Option; GP,SOCS)

69098 001 LEC, 09:45-11:00 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 AFRO 3135; Josef Woldense ; 3 cr.

**3235W Democracy and Citizenship**

(Student Option; Prereq: Suggested prerequisite 1201CIV,WI)

55381 001 LEC, 13:00-14:15 TTh, Blegen Hall 235, In Person Term Based; Anuja Bose ; 3 cr.

**3251W Power, Virtue, and Vice: Ancient and Early Modern Political Theory**

(Student Option; WI)

55857 001 LEC, 09:45-11:00 MW, Blegen Hall 235, In Person Term Based; Robert Nichols ; 3 cr.

**3282 Black Political Thought: Conceptions of Freedom**

(Student Option; DSJ,HIS)

66654 001 LEC, 16:00-17:15 TTh, Blegen Hall 120, In Person Term Based; Anuja Bose ; 3 cr.

**3306 Presidential Leadership and American Democracy**

(Student Option; )

68195 001 LEC, 14:30-15:45 MW, Blegen Hall 155, In Person Term Based; Timothy Collins ; 3 cr.

**3309 U.S. Supreme Court Decision-Making, Process, and Politics**

(Student Option; Prerequisite: POL 1001)

55011 001 LEC, 09:45-11:00 TTh, Willey Hall 125, In Person Term Based; Timothy Johnson ; 3 cr.

**3310 Topics in American Politics**

(Student Option; )

66680 001 LEC, 13:00-14:15 MW, Blegen Hall 5, In Person Term Based; Scott Abernathy ; 3 cr.

**3319 Education and the American Dream**

(A-F or Audit; DSJ,SOCS)

54771 001 LEC, 11:15-12:30 MW, Willey Hall 125, In Person Term Based; Scott Abernathy ; 3 cr.

**3321 Issues in American Public Policy**

(Student Option; )

65672 001 LEC, 13:00-14:15 MW, Willey Hall 125, In Person Term Based; Andrew Karch ; 3 cr.

**3329 The Balance of Power: Federalism & Community in the United States**

(Student Option; )

65673 001 LEC, 09:45-11:00 MW, Blegen Hall 130, In Person Term Based; Andrew Karch ; 3 cr.

**3462 Politics of Race, Class, and Ethnicity**

(Student Option; )

65675 001 LEC, 18:20-20:50 Th, Carlson School of Mgmt 1-147, In Person Term Based; August Nimitz ; 3 cr.

**3475 Islamist Politics**

(Student Option; )

65676 001 LEC, 09:45-11:00 TTh, Blegen Hall 120, In Person Term Based; Kathleen Collins ; 3 cr.

**3752 Chicana/o Politics**

(Student Option; DSJ,SOCS)

68487 001 LEC, 14:30-15:45 MW, Ford Hall B10, In Person Term Based; Meets With: 002 PA 5190001 CHIC 3852; Guillermo Narvez ; 3 cr.

**3766 Political Psychology of Mass Behavior**

(Student Option; SOCS)

54552 001 LEC, 14:30-15:45 MF, West Bank Skyway 20, In Person Term Based; Dan Myers ; 3 cr.

**3833 The United States and the Global Economy**

(Student Option; )

55200 001 LEC, 09:45-11:00 TTh, Anderson Hall 370, In Person Term Based; Jane Sumner ; 3 cr.

**3835 International Relations**

(Student Option; GP,SOCS)

53101 001 LEC, 16:00-17:15 TTh, Anderson Hall 330, In Person Term Based; Cosette Creamer ; 3 cr.

**3879 Critical Humanitarianism: Policy and Politics**

(Student Option; )

66336 001 LEC, 08:15-09:30 MW, Blegen Hall 120, In Person Term Based; Helen Kinsella ; 3 cr.

**3994 Directed Research: Distinguished Undergraduate Research Program**

(A-F only; )

54937 001 IND, 00:00-00:00 , , In Person Term Based; Teri Caraway ; 2 cr.

**4275 Domination, Exclusion, and Justice: Contemporary Political Thought**

(Student Option; Prereq: 1201 recommendedDSJ)

65680 001 LEC, 16:00-17:15 MW, Blegen Hall 125, In Person Term Based; Nancy Luxon ; 3 cr.

**4335 African American Politics**

(Student Option; DSJ,SOCS)

55213 001 LEC, 14:30-15:45 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 AFRO 4335; Michael Minta ; 3 cr.

**4463 The Cuban Revolution Through the Words of Cuban Revolutionaries**

(Student Option; GP)

55141 001 LEC, 18:20-20:50 W, Carlson School of Mgmt 1-142, In Person Term Based; August Nimitz ; 3 cr.

**4474W Russian Politics: From Soviet Empire to Post-Soviet State**

(Student Option; WI)

55898 001 LEC, 09:45-11:00 MW, Carlson School of Mgmt L-126, In Person Term Based; Kathleen Collins ; 3 cr.

**4502W The Supreme Court, Civil Liberties, and Civil Rights**

(Student Option; CIV,WI)

52637 001 LEC, 08:15-09:30 TTh, Blegen Hall 150, In Person Term Based; Timothy Johnson, Rachael Houston ; 3 cr.

**4737 American Political Parties**

(Student Option; Prereq: 1001 or equiv or instr consent)

65681 001 LEC, 11:15-12:30 TTh, Blegen Hall 150, In Person Term Based; Paul Goren ; 3 cr.

**4885W International Conflict and Security**

(Student Option; GP,WI)

65683 001 LEC, 18:20-20:50 T, Blegen Hall 120, In Person Term Based; Ron Krebs ; 3 cr.

**4991 Political Science Capstone**

(A-F only; )

55398 001 LEC, 13:00-14:15 T, Anderson Hall 230, In Person Term Based; Lisa Hilbink ; 3 cr.  
55863 003 DIS, 13:00-14:15 Th, Blegen Hall 330, In Person Term Based; Lisa Hilbink ; 3 cr.  
55864 002 DIS, 13:00-14:15 Th, Blegen Hall 335, In Person Term Based; Lisa Hilbink ; 3 cr.  
65685 005 LEC, 16:00-17:15 M, Twin Cities Remote, Completely Online; Anoop Sarbahi ; 3 cr.  
65686 006 DIS, 16:00-17:15 W, Twin Cities Remote, Completely Online; Anoop Sarbahi ; 3 cr.  
65687 007 DIS, 16:00-17:15 W, Twin Cities Remote, Completely Online; Anoop Sarbahi ; 3 cr.

**4993 Honors Thesis: Directed Studies**

(A-F only; )

53385 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

**4994 Directed Research: Individual**

(Student Option; Prerequisite instructor and department consent.)

53190 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**5970 Individual Reading and Research**

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

56074 001 IND, In Person Term Based; 1-4 cr.

**Portuguese (PORT)****1102 Beginning Portuguese**

(Student Option; Prereq: 1101 or instr consent)

53100 001 LEC, 09:05-09:55 MTWTh, Folwell Hall 121, In Person Term Based; Jacob Dixon ; 5 cr.

**1104 Intermediate Portuguese**

(Student Option; Prereq: 1103 or instr consent)

68179 001 LEC, 09:05-09:55 MTWTh, Folwell Hall 108, In Person Term Based; Dora Dias ; 5 cr.

**3001 Portuguese for Spanish Speakers**

(Student Option; Prereq: SPAN LPE Pass)

52700 001 LEC, 10:10-12:05 MW, Peik Hall 315, In Person Term Based; Dora Dias ; 4 cr.  
53627 002 LEC, 14:30-16:25 TTh, Folwell Hall 4, In Person Term Based; Dora Dias ; 4 cr.

**3003 Portuguese Conversation and Composition**

(Student Option; Prereq: 1104 or 3001 or Port LPE)  
52701 001 DIS, 10:10-12:05 MW, Folwell Hall 119, In Person Term Based; Ana Paula Ferreira ; 4 cr.

**3920 Topics in Lusophone Cultures**

(Student Option; Prereq: [1101, 1102, 1103, 1104] or [3001, 3003] or equiv)  
69017 001 LEC, 13:00-14:15 MW, Ford Hall 127, In Person Term Based; Sophia Beal ; 3 cr.

**5994 Directed Research**

(Student Option; Prereq Grad student or instr consent. Students enrolling in this directed study/research course will complete the University's common Directed Study/Research contract with the faculty mentor/evaluator. The Faculty member will ensure academic standards are upheld, including: - the work proposed is at the appropriate level for the course, academic in nature, and the student will be involved intellectually in the project. - the project scope is reasonable for one semester and the number of credits specified (42 hours of work per credit) - the faculty mentor is qualified to serve in this role - assessment of student learning and grading criteria are clear and appropriate - the student will be working in a respectful, inclusive environment)  
53920 001 IND, 00:00-00:00 , , In Person Term Based; Ana Paula Ferreira ; 1-4 cr.  
53921 002 IND, 00:00-00:00 , , In Person Term Based; Sophia Beal ; 1-4 cr.

**Poultry Health (POUL)****5001 Avian Anatomy and Physiology**

(A-F only; )  
69186 001 DIS, Completely Online; Carol Cardona ; 1 cr.

**5002 Poultry Nutrition**

(A-F only; )  
69187 001 DIS, Completely Online; Sally Noll ; 1 cr.

**5102 How safe is your chicken? Food safety from a poultry perspective**

(A-F only; )  
68808 001 LEC, Completely Online; Tim Johnson, Anup Kollanoor Johny, Randall Singer ; 3 cr.

**Product Design (PDES)****2702 Concept Sketching**

(A-F only; )  
50353 001 LEC, 16:40-18:35 MW, Rapson Hall 56, In Person Term Based; Jason Quick ; 3 cr.

**2703 Concept Visualization and Presentation 1**

(A-F only; )  
50365 001 LEC, 11:15-13:10 TTh, Rapson Hall 9, In Person Term Based; James Wilson ; 3 cr.  
50389 002 LEC, 11:15-13:10 MW, Rapson Hall 9, In Person Term Based; James Wilson ; 3 cr.  
50406 003 LEC, 13:20-15:15 MW, Rapson Hall 9, In Person Term Based; James Wilson ; 3 cr.

**2772 Product Design Studio 2**

(A-F only; )  
50392 001 LAB, 09:05-12:05 MW, Rapson Hall 31, In Person Term Based; Theresa Akers ; 4 cr.  
50407 002 LAB, 12:20-15:20 MW, Rapson Hall 31, In Person Term Based; Jason Quick ; 4 cr.

**2777 Product Form and Model Making**

(A-F only; )  
50393 001 LAB, 15:35-18:35 Th, Rapson Hall 9, In Person Term Based; Jessica Rosenberg ; 3 cr.  
50394 003 LAB, 15:35-18:36 W, Rapson Hall 9, In Person Term Based; Jessica Rosenberg ; 3 cr.  
50398 002 LAB, 15:35-18:35 T, Rapson Hall 9, In Person Term Based; Jessica Rosenberg ; 3 cr.  
68104 004 LEC, 15:35-16:25 M, Rapson Hall 56, In Person Term Based; Jessica Rosenberg ; 3 cr.

**3196 Product Design Internship**

(S-N only; Prereq: PDes major)  
50463 001 IND, In Person Term Based; James Wilson ; 1-2 cr.  
50464 002 IND, In Person Term Based; James Wilson ; 1-2 cr.

**3705 History and Future of Product Design**

(A-F only; )  
50347 001 LEC, 13:00-14:15 TTh, Rapson Hall 45, In Person Term Based; Meets With: 001 PDES 5705; Tejas Dhadphale ; 3 cr.

**3706 Designing for Manufacture**

(A-F only; )  
50408 001 LEC, 14:30-16:10 Th, Rapson Hall 56, In Person Term Based; Meets With: 002 PDES 5706; Chris Worthington ; 4 cr.  
50409 002 LAB, 14:30-17:30 T, Rapson Hall 31, In Person Term Based; Meets With: 001 PDES 5706; Chris Worthington ; 4 cr.  
50412 003 LAB, 18:00-21:00 T, Rapson Hall 31, In Person Term Based; Chris Worthington ; 4 cr.

**3711 Product Innovation Lab**

(A-F only; Prereq: PDes 2772 OR Junior/Senior (any major) or permission from instructor)  
50291 001 LEC, 09:05-11:00 TTh, Rapson Hall 56, In Person Term Based; Meets With: 001 PDES 5711; Barry Kudrowitz ; 4 cr.  
50294 002 LAB, 18:00-21:00 Th, Rapson Hall 56, In Person Term Based; Meets With: 002 PDES 5711; Barry Kudrowitz ; 4 cr.

**3714 Computer-Aided Design Methods 2: Surface Modeling and Rendering**

(A-F only; )  
50461 001 LAB, 18:00-19:30 MW, Rapson Hall 33, In Person Term Based; Ken Grant ; 3 cr.

**3737 Product Design Portfolio**

(A-F only; )  
68968 001 LEC, 18:00-18:55 T, Rapson Hall 58, In Person Term Based; Sara Pedersen ; 2 cr.  
68976 002 LAB, 19:05-20:00 T, , In Person Term Based; Sara Pedersen ; 2 cr.

**4702W Capstone Design Studio**

(A-F only; WI)  
50390 001 LEC, 09:05-12:05 MW, Rapson Hall 259, In Person Term Based; Carlye Lauff ; 4 cr.  
68117 002 LEC, 12:20-15:20 MW, Peik Gymnasium G65, In Person Term Based; Carlye Lauff ; 4 cr.

**5701 User-Centered Design Studio**

(A-F only; )  
68008 001 LEC, 13:00-15:00 MW, Rapson Hall 37, In Person Term Based; Jessica Rosenberg ; 3 cr.

**5705 History and Future of Product Design**

(A-F only; )  
50348 001 LEC, 13:00-14:15 TTh, Rapson Hall 45, In Person Term Based; Meets With: 001 PDES 3705; Tejas Dhadphale ; 3 cr.

**5706 Designing for Manufacture**

(A-F only; Prereq: PDes 5704 or CAD experience.)  
50516 001 LAB, 14:30-17:30 T, Rapson Hall 31, In Person Term Based; Meets With: 002 PDES 3706; Chris Worthington ; 4 cr.  
68105 002 LEC, 14:30-16:10 Th, Rapson Hall 56, In Person Term Based; Meets With: 001 PDES 3706; Chris Worthington ; 4 cr.

**5711 Product Innovation Lab**

(A-F only; )  
50292 001 LEC, 09:05-11:00 TTh, Rapson Hall 56, In Person Term Based; Meets With: 001 PDES 3711; Barry Kudrowitz ; 4 cr.  
50293 002 LAB, 18:00-21:00 Th, Rapson Hall 56, In Person Term Based; Meets With: 002 PDES 3711; Barry Kudrowitz ; 4 cr.

**Psychology (PSY)****1001 Introduction to Psychology**

(Student Option; SOCS)  
52609 001 LEC, 13:25-14:15 MWF, Willey Hall 175, In Person Term Based; Liza Meredith ; 4 cr.  
52610 002 DIS, 10:10-11:00 M, Bruininks Hall 512B, In Person Term Based; Merrill Levitt ; 4 cr.  
52611 003 DIS, 11:15-12:05 M, Bruininks Hall 512B, In Person Term Based; Merrill Levitt ; 4 cr.  
52612 004 DIS, 14:30-15:20 M, Bruininks Hall 512B, In Person Term Based; Elleann Kohl ; 4 cr.  
52613 005 DIS, 10:10-11:00 T, Bruininks Hall 512B, In Person Term Based; Dana Tomeh ; 4 cr.  
52614 006 DIS, 11:15-12:05 T, Bruininks Hall 512B, In Person Term Based; Dana Tomeh ; 4 cr.

52615 007 DIS, 13:25-14:15 T, Bruininks Hall 512B, In Person Term Based; Rachael Jones ; 4 cr.  
52616 008 DIS, 14:30-15:20 T, Bruininks Hall 512B, In Person Term Based; Nga Do ; 4 cr.  
52617 009 DIS, 09:05-09:55 W, Bruininks Hall 512B, In Person Term Based; Elleann Kohl ; 4 cr.  
52618 010 DIS, 10:10-11:00 W, Bruininks Hall 512B, In Person Term Based; Ming Him Tai ; 4 cr.  
52619 011 DIS, 11:15-12:05 W, Bruininks Hall 512B, In Person Term Based; Rachael Jones ; 4 cr.  
52620 012 DIS, 14:30-15:20 W, Bruininks Hall 512B, In Person Term Based; Lina Huang ; 4 cr.  
52621 013 DIS, 10:10-11:00 Th, Bruininks Hall 512B, In Person Term Based; Shaozhi Nie ; 4 cr.  
52622 014 DIS, 11:15-12:05 Th, Bruininks Hall 512B, In Person Term Based; Lina Huang ; 4 cr.  
52623 015 DIS, 13:25-14:15 Th, Bruininks Hall 512B, In Person Term Based; Reed Priest ; 4 cr.  
53808 017 LEC, Completely Online; Liza Meredith ; 4 cr.  
53809 018 DIS, Completely Online; Diya Kalra ; 4 cr.  
54699 022 DIS, Completely Online; Shanaz Hayee ; 4 cr.  
55384 016 DIS, 14:30-15:20 Th, Elliott Hall N647, In Person Term Based; Annie Griebie ; 4 cr.  
56060 023 DIS, Completely Online; Rowan Wylie ; 4 cr.  
56061 024 DIS, Completely Online; Abigail Smith ; 4 cr.  
56062 025 DIS, Completely Online; Hannah Klimas ; 4 cr.  
56063 026 DIS, Completely Online; Amit Sethi ; 4 cr.  
56064 027 DIS, Completely Online; Natalie Narvaez ; 4 cr.  
56145 028 DIS, Completely Online; Ben Wehseler ; 4 cr.  
56146 029 DIS, Completely Online; Neha Bhatia ; 4 cr.

**1916 Race in Everyday Space**

(A-F only; DSJ)  
66426 001 DIS, 09:45-12:30 F, Elliott Hall N647, In Person Term Based; Qurat-ul-ain G ; 3 cr.

**1923 The Freshman 15: Stress and Health Management for College Students**

(A-F only; )  
66425 001 DIS, 09:45-11:00 TTh, Burton Hall 125, In Person Term Based; Caprice Niccoli-Waller ; 3 cr.

**1925 Neuroimaging in Psychology: Why Do Psychologists Use Magnets & Electrodes to Look at People's Brains**

(A-F only; )  
66137 001 DIS, 11:15-12:30 TTh, Elliott Hall N639, In Person Term Based; Cheryl Olman ; 3 cr.

**3001V Honors Introduction to Research Methods**

(A-F only; Prereq: [1001, [2081/3801 or equiv]] or dept consent, PSY major, honors student WI)  
53984 001 LEC, 13:25-15:05 MW, Wulling Hall 240, In Person Term Based; Moïn Syed ; 4 cr.

**3001W Introduction to Research Methods (Student Option; Prereq: [1001, [2801 or 3801 or equiv]] or dept consent WI)**

53940 001 LEC, 10:10-11:00 MWF, 10 Church Street SE 100, In Person Term Based; Mark Stellmack ; 4 cr.  
53941 002 LAB, 11:15-12:30 W, Elliott Hall S150, In Person Term Based; Yanjun Li ; 4 cr.  
53942 003 LAB, 11:15-12:30 W, Elliott Hall S160, In Person Term Based; Ziwei Liu ; 4 cr.  
53943 004 LAB, 14:30-15:45 W, Elliott Hall S150, In Person Term Based; Jiaqi Liu ; 4 cr.  
53944 005 LAB, 14:30-15:45 W, Elliott Hall S160, In Person Term Based; Siyun Liu ; 4 cr.  
53945 006 LAB, 09:45-11:00 Th, Elliott Hall S150, In Person Term Based; Jordan Amtz ; 4 cr.  
53946 007 LAB, 09:45-11:00 Th, Elliott Hall S160, In Person Term Based; Flora Pollack ; 4 cr.  
53947 008 LAB, 13:00-14:15 W, Elliott Hall S150, In Person Term Based; Ming Him Tai ; 4 cr.  
53948 009 LAB, 13:00-14:15 W, Elliott Hall S160, In Person Term Based; Colin Freilich ; 4 cr.  
53949 010 LAB, 16:00-17:15 W, Elliott Hall S150, In Person Term Based; Chen Chen ; 4 cr.  
54300 011 LAB, 16:00-17:15 W, Elliott Hall S160, In Person Term Based; Beryl Palmer ; 4 cr.  
54898 014 LEC, 00:00-00:00 , ONLINE, Completely Online; Penny Nichol ; 4 cr.  
68155 012 LAB, 12:00-13:15 Th, Elliott Hall S150, In Person Term Based; Emma Estrella ; 4 cr.  
68156 013 LAB, 12:00-13:15 Th, Elliott Hall S160, In Person Term Based; Mark Stellmack ; 4 cr.

**3031 Introduction to Sensation and Perception**

(Student Option; Prereq: PSY 1001)  
52628 001 LEC, 08:15-09:30 TTh, Bruininks Hall 312, In Person Term Based; Cheryl Olman ; 3 cr.

**3051 Introduction to Cognitive Psychology**  
(Student Option; Prereq: 1001)

56162 001 LEC, Completely Online; Andrew Freedman ; 3 cr.  
65745 002 LEC, 08:15-09:30 TTh, Nicholson Hall 155, In Person Term Based; Iris Donga Vilares ; 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)

53273 001 LEC, 11:15-12:30 MW, Molecular Cellular Biol 3-120, In Person Term Based; Cathy Chen, Evan Knep ; 3 cr.

**3101 Introduction to Personality**  
(Student Option; Prereq: 1001)

52632 001 LEC, 16:00-17:15 MW, Bruininks Hall 114, In Person Term Based; Elise Anderson, Yuri Kim ; 3 cr.

**3121 History and Systems of Psychology**  
(Student Option; Prereq: PSY 1001)

55814 001 LEC, Completely Online; Thomas Brothen ; 3 cr.

**3135 Introduction to Individual Differences**  
(Student Option; Prereq: [1001, [3801 or equiv]] or instr consent)

52633 001 LEC, 13:00-14:15 MW, Murphy Hall 130, In Person Term Based; Alexandros Giannelis ; 3 cr.

**3201 Introduction to Social Psychology**  
(Student Option; Prereq: 1001 or instr consent)

52634 001 LEC, 11:15-12:05 MWF, Vincent Hall 16, In Person Term Based; Jami Eller ; 3 cr.

**3206 Introduction to Health Psychology**  
(Student Option; Prereq: 1001)

55038 001 LEC, Completely Online; Caprice Niccoli-Waller ; 3 cr.  
66202 002 LEC, Completely Online; Sarah Volz ; 3 cr.

**3301 Introduction to Cultural Psychology**  
(A-F or Audit; Prereq: 1001)

53068 001 LEC, 16:00-17:15 TTh, Rapson Hall 45, In Person Term Based; Claire Min ; 3 cr.

**3511 Introduction to Counseling Psychology**  
(Student Option; Prereq: 1001)

53811 001 LEC, 13:00-14:15 TTh, Willey Hall 175, In Person Term Based; Liza Meredith ; 3 cr.

**3604 Introduction to Abnormal Psychology**  
(Student Option; Prereq: 1001)

52635 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Bonnie Klimes-Dougan ; 3 cr.

**3617 Introduction to Clinical Psychology**  
(Student Option; Prereq: 3604 or 5604H)

54269 001 LEC, 17:00-19:30 M, Rapson Hall 45, In Person Term Based; Colt Deckert ; 3 cr.

**3666 Human Sexuality**  
(Student Option; Prereq: 1001)

54650 001 LEC, 09:45-11:00 Th, Bruininks Hall 432, Partially Online; Margaret Jaeger ; 3 cr.

**3711 Psychology in the Workplace**  
(Student Option; Prereq: 1001, [2801/3801 or equiv] or SCO 2550 or instr consent)

53545 001 LEC, 14:30-15:45 MW, Nicholson Hall 155, In Person Term Based; Samuel Lee ; 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)

53913 001 LEC, 11:15-12:30 MW, 10 Church Street SE 100, In Person Term Based; Amanda Woodward ; 4 cr.  
53914 002 LAB, 09:45-11:00 T, Bruininks Hall 530A, In Person Term Based; Tyler Sassenberg ; 4 cr.  
53915 003 LAB, 13:00-14:15 T, Bruininks Hall 530B, In Person Term Based; Xinyu Liu ; 4 cr.  
53916 004 LAB, 14:30-15:45 T, Bruininks Hall 530B, In Person Term Based; Xinyu Liu ; 4 cr.  
55393 012 LEC, Completely Online; Penny Nichol ; 4 cr.  
55888 005 LAB, 16:00-17:15 W, Bruininks Hall 512A, In Person Term Based; Linh Nguyen ; 4 cr.  
55889 006 LAB, 08:15-09:30 Th, Bruininks Hall 530A, In Person Term Based; Hoang Nguyen ; 4 cr.  
55890 007 LAB, 09:45-11:00 Th, Bruininks Hall 530A, In Person Term Based; Tyler Sassenberg ; 4 cr.  
55891 008 LAB, 13:00-14:15 Th, Bruininks Hall 530B, In Person Term Based; Raj Wahluquist ; 4 cr.

55892 009 LAB, 14:30-15:45 Th, Bruininks Hall 530B, In Person Term Based; Raj Wahluquist ; 4 cr.  
55893 010 LAB, 09:45-11:00 F, Bruininks Hall 512B, In Person Term Based; King Yiu Suen ; 4 cr.  
55894 011 LAB, 11:15-12:30 F, Bruininks Hall 512B, In Person Term Based; King Yiu Suen ; 4 cr.

**3896 Internship in Psychology**

(Student Option; Prereq: Psychology BA/BS, Department Permission)

56383 001 FWK, Completely Online; Mike Houlahan ; 1-4 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)

54810 001 LEC, Completely Online; Meets With: 001 PSY 3903W001 PSY 3902W; Caprice Niccoli-Waller ; 3 cr.  
54814 002 LAB, Completely Online; Kate Carosella ; 3 cr.  
54815 003 LAB, Completely Online; Celina Furman ; 3 cr.  
54816 004 LAB, Completely Online; Joshua Braverman ; 3 cr.  
54819 005 LAB, Completely Online; Linh Nguyen ; 3 cr.  
54820 006 LAB, Completely Online; Mo Nakamura ; 3 cr.  
56073 007 LAB, Completely Online; Edward Chou ; 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)

53865 001 LEC, Completely Online; Meets With: 001 PSY 3901W001 PSY 3903W; Caprice Niccoli-Waller ; 3 cr.  
53866 002 LAB, Completely Online; Hyunsuk Lee ; 3 cr.  
53867 003 LAB, Completely Online; Yagizhan Yazar ; 3 cr.  
53868 004 LAB, Completely Online; Matthew Rogers ; 3 cr.  
54365 005 LAB, Completely Online; Zi Gao ; 3 cr.  
54673 006 LAB, Completely Online; Kiley Gilbert ; 3 cr.  
54899 007 LAB, Completely Online; Ryan Weblor ; 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)

54811 001 LEC, Completely Online; Meets With: 001 PSY 3902W001 PSY 3901W; Caprice Niccoli-Waller ; 3 cr.  
54812 002 LAB, Completely Online; Ian O'Dowd ; 3 cr.  
54813 003 LAB, Completely Online; Grace Vieth ; 3 cr.

**3993 Directed Study**

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

52636 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

**4036 Perceptual Issues in Visual Impairment**

(Student Option; Prereq: 1001 or instr consent)

65966 001 LEC, 13:30-16:00 Th, Elliott Hall S160, In Person Term Based; Gordon Legge ; 3 cr.

**4206 Interventions for Health and Wellness**

(Student Option; )

68957 001 LEC, 09:00-11:30 W, Elliott Hall N391, In Person Term Based; Traci Mann ; 3 cr.

**4301 Psychology & Diversity Science**

(A-F only; Prerequisites: Psy 3001W or Psy 3001V and Psy 3801 or Psy 3801H. In addition, completion of Psy 3301 is strongly recommended.)

69705 001 LEC, 09:45-11:00 MW, Bruininks Hall 131A, In Person Term Based; Moin Syed ; 3 cr.

**4501 Psychology of Women and Gender**

(Student Option; Prereq: [[Jr or sr], psych major] or instr consent)

54594 001 LEC, 11:15-12:30 TTh, Nicholson Hall 155, In Person Term Based; Kayla Huber, Jieyi Cai ; 3 cr.

**4521 Psychology of Stress and Trauma**

(A-F only; Prereq: PSY 1001 and 3001W or PSY 3001V or CPSY 3308W)

54900 001 LEC, Completely Online; Jan-Louw Kotze ; 3 cr.

**4902V Honors Project**

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

52642 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

**4960 Seminar in Psychology**

(Student Option; Prereq: [1001, psych major] or instr consent)

68866 003 LEC, 09:45-11:00 TTh, Elliott Hall N423, In Person Term Based; Amanda Woodward ; 1-4 cr.

**4993 Directed Research: Special Areas of Psychology and Related Sciences**

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

53422 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

56675 002 IND, In Person Term Based; 1-6 cr.

**4994V Honors Research Practicum**

(A-F only; Prereq: [3001W or 3001V], psych major, honorsWI)

52643 001 IND, 11:15-12:30 TTh, Elliott Hall N391, In Person Term Based; Charles Fletcher ; 4 cr.

**5014 Psychology of Human Learning and Memory**

(A-F only; Prereq: 3011 or 3051 or honors or grad student)

55815 001 LEC, 18:00-20:45 W, Elliott Hall N639, In Person Term Based; Wilma Koutstaal ; 3 cr.

**5018H Mathematical Models of Human Behavior**

(A-F only; Prereq: Math 1271 or instr consent)

65744 001 LEC, 14:00-15:15 MW, Elliott Hall N668, In Person Term Based; Paul Schratler ; 3 cr.

**5054 Psychology of Language**

(Student Option; Prereq: Grad or [[Jr or sr], [3011 or 3031 or 3051 or 3061]] or instr consent)

55816 001 LEC, 09:45-11:00 TTh, Elliott Hall N391, In Person Term Based; Charles Fletcher ; 3 cr.

**5064 Brain and Emotion**

(A-F or Audit; Prereq: 3061 or 5061 or instr consent)

66391 001 LEC, 14:30-15:45 MW, Elliott Hall N119, In Person Term Based; Mari Gades ; 3 cr.

**5202 Attitudes and Social Behavior**

(Student Option; Prereq: 3201 or instr consent)

52640 001 LEC, 13:25-14:15 MWF, Elliott Hall N391, In Person Term Based; Eugene Borgida ; 3 cr.

**5501 Self, Society and Health ? Work Got To Do With It?**

(Student Option; Prereq: 3001W or equiv or instr consent)

52641 001 LEC, 10:30-13:00 F, Elliott Hall N391, In Person Term Based; Lovey Peissig ; 3 cr.

**5708 Organizational Psychology**

(Student Option; Prereq: Psy 3001W or 3001V and 3711 OR PSY grad)

55394 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)

55853 001 LEC, 11:15-12:30 TTh, Elliott Hall N423, In Person Term Based; Meets With: 001 EPSY 8222; Mark Davison, David Weiss ; 4 cr.

**5993 Research Laboratory in Psychology**

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

53985 001 LAB, 00:00-00:00 , , In Person Term Based; Eugene Borgida ; 3 cr.  
53986 005 LAB, 00:00-00:00 , , In Person Term Based; Christopher Federico ; 3 cr.  
53987 006 LAB, 00:00-00:00 , , In Person Term Based; Charles Fletcher ; 3 cr.  
53988 007 LAB, 09:00-10:00 F, Elliott Hall N595, In Person Term Based; Patricia Frazier ; 3 cr.  
53989 008 LAB, 00:00-00:00 , , In Person Term Based; Jonathan Gewirtz ; 3 cr.  
53990 009 LAB, 00:00-00:00 , , In Person Term Based; Marti Hope Gonzales ; 3 cr.  
53991 010 LAB, 00:00-00:00 , , In Person Term Based; Nicola Grissom ; 3 cr.  
53993 012 LAB, In Person Term Based; Nathaniel Helwig ; 3 cr.  
53994 014 LAB, In Person Term Based; Vanessa Lee ; 3 cr.  
53995 015 LAB, 00:00-00:00 , , In Person Term Based; Daniel Kersten ; 3 cr.  
53996 016 LAB, In Person Term Based; Bonnie Klimes-Dougan ; 3 cr.  
53997 017 LAB, 00:00-00:00 , , In Person Term Based; Wilma Koutstaal ; 3 cr.  
53998 019 LAB, 00:00-00:00 , , In Person Term Based; Nathan Kuncel ; 3 cr.  
53999 021 LAB, 00:00-00:00 , , In Person Term Based; James Lee ; 3 cr.  
54000 023 LAB, 00:00-00:00 , , In Person Term Based; Gordon Legge ; 3 cr.

54001 024 LAB, In Person Term Based; Shmuel Lissek ; 3 cr.  
 54002 025 LAB, In Person Term Based; Monica Luciana ; 3 cr.  
 54003 026 LAB, 16:00-17:30 W, Elliott Hall N423, In Person Term Based; Angus MacDonald ; 3 cr.  
 54004 027 LAB, 00:00-00:00 , , In Person Term Based; Traci Mann ; 3 cr.  
 54005 028 LAB, 00:00-00:00 , , In Person Term Based; 3 cr.  
 54006 030 LAB, 10:00-12:00 M, Elliott Hall S160, In Person Term Based; Penny Nichol ; 3 cr.  
 54007 031 LAB, 00:00-00:00 , , In Person Term Based; Cheryl Olman ; 3 cr.  
 54008 032 LAB, 00:00-00:00 , , In Person Term Based; Deniz Ones ; 3 cr.  
 54090 035 LAB, 00:00-00:00 , , In Person Term Based; Paul Sackett ; 3 cr.  
 54095 036 LAB, 00:00-00:00 , , In Person Term Based; Aaron Schmidt ; 3 cr.  
 54100 038 LAB, In Person Term Based; Jeff Simpson ; 3 cr.  
 54144 003 LAB, 00:00-00:00 , , In Person Term Based; Colin DeYoung ; 3 cr.  
 54255 004 LAB, 00:00-00:00 , , In Person Term Based; Stephen Engel ; 3 cr.  
 54256 013 LAB, 14:15-17:00 W, Elliott Hall N227, In Person Term Based; William Iacono ; 3 cr.  
 54257 029 LAB, 00:00-00:00 , , In Person Term Based; Liza Meredith ; 3 cr.  
 54258 033 LAB, 00:00-00:00 , , In Person Term Based; Andrew Oxenham ; 3 cr.  
 54259 037 LAB, 00:00-00:00 , , In Person Term Based; Paul Schrater ; 3 cr.  
 54332 020 LAB, 00:00-00:00 , , In Person Term Based; Richard Landers ; 3 cr.  
 54339 039 LAB, In Person Term Based; Mark Snyder ; 3 cr.  
 54393 022 LAB, 11:30-12:30 MW, Elliott Hall N639, In Person Term Based; Rich Lee ; 3 cr.  
 54394 018 LAB, 00:00-00:00 , , In Person Term Based; Robert Krueger ; 3 cr.  
 54395 002 LAB, In Person Term Based; Thomas Brothen ; 3 cr.  
 55177 041 LAB, In Person Term Based; Moin Syed ; 3 cr.  
 55231 042 LAB, In Person Term Based; Iris Donga Vilares ; 3 cr.  
 55514 040 LAB, In Person Term Based; Mark Stellmack ; 3 cr.  
 55825 044 LAB, In Person Term Based; Niels Waller ; 3 cr.  
 55826 045 LAB, In Person Term Based; David Weiss ; 3 cr.  
 56103 046 LAB, In Person Term Based; Richard Douglass ; 3 cr.  
 56104 047 LAB, In Person Term Based; Katerina Marcoulides ; 3 cr.  
 56163 048 LAB, In Person Term Based; Matt Mc Gue ; 3 cr.  
 56723 049 LAB, Completely Online; Deniz Ones ; 3 cr.  
 68855 050 LAB, 16:00-17:15 TTh, Elliott Hall N639, In Person Term Based; Amanda Woodward ; 3 cr.

## Public Affairs (PA)

### 1401 Public Affairs: Community Organizing Skills for Public Action

(A-F only; CIV)  
 58947 001 DIS, 08:15-09:30 MW, Hubert H. Humphrey School 60, In Person Term Based; Dennis Donovan ; 3 cr.

### 3003 Nonprofit and Public Financial Management

(A-F or Audit; Prereq: Jr or sr)  
 58984 001 LEC, 09:45-11:00 MW, Twin Cities Remote, Completely Online; Camila Fonseca Sarmiento ; 3 cr.

### 3972 Elections and the Law

(Student Option No Audit; )  
 58986 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 PA 5972; Judd Choate ; 2 cr.

### 3975 Election Design

(Student Option No Audit; )  
 66130 001 LEC, Completely Online; Meets With: 001 PA 5975; Whitney Quesenbery ; 2 cr.

### 3976 Voter Participation

(Student Option No Audit; )  
 59017 001 LEC, Completely Online; Meets With: 001 PA 5976; Astrid Ochoa ; 1 cr.

### 3984 Elections Security: How to Protect America's Elections

(A-F or Audit; )  
 59033 001 LEC, Completely Online; Meets With: 001 PA 5984; Maurice Turner ; 2 cr.

### 3991 Independent Study

(Student Option; Prereq: instr consent)  
 69148 001 IND, In Person Term Based; Greg Lindsey ; 1-3 cr.

### 4101 Nonprofit Management and Governance

(Student Option; )  
 58922 001 LEC, 13:00-14:15 MW, Carlson School of Mgmt L-114, In Person Term Based; Ahmad Banamah ; 3 cr.

### 4790 Topics in Science, Technology, and Environmental Policy

(Student Option; )  
 68167 001 LEC, 16:00-18:45 Th, Bruininks Hall 512A, In Person Term Based; Fred Rose ; 1-3 cr.

### 5002 Introduction to Policy Analysis

(A-F or Audit; )  
 58919 001 LEC, 16:00-17:15 TTh, Bruininks Hall 530B, In Person Term Based; Greg Lindsey ; 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)  
 58961 002 LEC, 18:00-20:45 M, Hubert H. Humphrey School 184, In Person Term Based; P. Jay Kiedrowski ; 1.5 cr.

### 5011 Management of Organizations

(A-F or Audit; )  
 58999 001 LEC, 16:00-17:15 W, ONLINE BLENDED, 16:00-17:15 M, Blegen Hall 155, Partially Online; Anil Hurkadli ; 3 cr.

### 5012 The Politics of Public Affairs

(A-F or Audit; )  
 58983 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey School 25, In Person Term Based; Joe Soss ; 3 cr.

### 5022 Applications of Economics for Policy Analysis

(A-F or Audit; Prereq: 5021 or equiv )  
 65965 002 DIS, 14:30-15:45 MW, Hubert H. Humphrey School 184, In Person Term Based; Morris Kleiner ; 1.5-3 cr.

### 5032 Applied Regression

(A-F or Audit; )  
 58899 001 LEC, 09:45-11:00 MW, ONLINE BLENDED, 09:45-11:00 MW, Carlson School of Mgmt 2-215, Partially Online; Angie Fertig ; 2 cr.  
 58900 002 LAB, 14:15-15:30 F, ONLINE BLENDED, 14:15-15:30 F, Hubert H. Humphrey School 85, Partially Online; Angie Fertig ; 2 cr.  
 58915 003 LAB, 12:45-14:00 F, ONLINE BLENDED, 12:45-14:00 F, Hubert H. Humphrey School 85, Partially Online; Angie Fertig ; 2 cr.  
 69672 004 LAB, 13:00-14:15 Th, Hubert H. Humphrey School 85, Partially Online; Angie Fertig ; 2 cr.

### 5033 Multivariate Techniques

(A-F or Audit; Prereq: [5032 or 5044 or equiv] or instr consent. May fulfill stats requirements in other programs.)  
 58910 004 LEC, 09:45-11:00 MW, Blegen Hall 135, In Person Term Based; Morris Kleiner ; 2 cr.  
 58914 006 LAB, 12:45-13:35 F, Hubert H. Humphrey School 85, In Person Term Based; Morris Kleiner ; 2 cr.

### 5041 Qualitative Methods for Policy

Analysts  
 (A-F only; )  
 58953 001 LEC, 16:00-17:15 TTh, Twin Cities Remote, Completely Online; Greta Friedemann-Sanchez ; 4 cr.  
 58954 002 DIS, 13:00-14:15 W, Blegen Hall 317, In Person Term Based; Greta Friedemann-Sanchez ; 4 cr.

### 5042 Urban and Regional Economics

(A-F only; Prereq: [Major or minor in urban and regional planning, microeconomics course] or instr consent)  
 58939 001 LEC, 13:00-14:15 TTh, ONLINE BLENDED, 13:00-14:15 TTh, Hubert H. Humphrey School 25, Partially Online; Angie Fertig ; 2 cr.  
 58945 003 DIS, 11:15-12:05 F, ONLINE BLENDED, 11:15-12:05 F, Hubert H. Humphrey School 184, Partially Online; Angie Fertig ; 2 cr.  
 66510 002 DIS, 10:10-11:00 F, ONLINE BLENDED, 10:10-11:00 F, Hubert H. Humphrey School 184, Partially Online; Angie Fertig ; 2 cr.

### 5043 Economic and Demographic Data Analysis

(A-F only; Prereq: Major or minor in urban/regional planning or instr consent)  
 58940 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey School 25, In Person Term Based; Ragui Assaad ; 2 cr.  
 58941 002 LAB, 09:45-11:00 F, Hubert H. Humphrey School 85, In Person Term Based; Ragui Assaad ; 2 cr.  
 58942 003 LAB, 11:15-12:30 F, Hubert H. Humphrey School 85, In Person Term Based; Ragui Assaad ; 2 cr.

### 5044 Applied Regression, Accelerated

(A-F only; Prereq: 5031 or equiv, or instr consent)  
 58948 001 LEC, 09:45-11:00 MW, Blegen Hall 135, In Person Term Based; Janna Johnson ; 2 cr.  
 58949 002 LAB, 09:45-11:00 F, Hubert H. Humphrey School 85, In Person Term Based; Janna Johnson ; 2 cr.  
 58950 003 LAB, 11:15-12:30 F, Hubert H. Humphrey School 85, In Person Term Based; Janna Johnson ; 2 cr.

### 5052 Public Affairs Leadership

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5051-5052 must be taken in same academic yr)  
 58928 001 LEC, 10:00-17:00 F, Hubert H. Humphrey School 180, 08:30-16:30 Sa, Hubert H. Humphrey School 180, 10:00-17:00 F, Hubert H. Humphrey School 180, 08:30-16:30 Sa, Hubert H. Humphrey School 180, 10:00-17:00 F, Hubert H. Humphrey School 180, 08:30-16:30 Sa, Hubert H. Humphrey School 180, 10:00-17:00 F, Hubert H. Humphrey School 180, 08:30-16:30 Sa, Hubert H. Humphrey School 180, 10:00-17:00 F, Hubert H. Humphrey School 180, 12:30-16:30 Sa, Hubert H. Humphrey School 180, Partially Online; Kathy Quick ; 2 cr.

### 5054 Program Design and Implementation Analysis

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5053-5054 must be taken in same academic yr)  
 58929 001 LEC, Partially Online; Kevin Gerdes ; 2 cr.

### 5056 Quantitative Research Methods and Analysis

(A-F only; Prereq: Major in public affairs or public affairs certificate, [5055-5056 must be taken in same academic yr])  
 58927 001 LAB, 08:30-12:30 Sa, Carlson School of Mgmt 1-149, Partially Online; Yuan Cheng ; 2 cr.

### 5080 Capstone Preparation Workshop

(S-N only; )  
 58923 001 LEC, 18:00-20:45 T, Twin Cities Remote, Completely Online; Kevin Gerdes ; 1 cr.

### 5104 Strategic Human Resource Management

(A-F or Audit; Prereq: Grad student or instr consent)  
 68035 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 15, In Person Term Based; Shahrin Upoma ; 3 cr.

### 5108 Board leadership development

(S-N only; Prereq: Grad student or instr consent)  
 58952 001 LEC, 09:00-16:30 Sa, Hubert H. Humphrey School 35, 09:00-11:00 F, Hubert H. Humphrey School 35, 09:00-11:00 F, Hubert H. Humphrey School 35, 09:00-11:00 F, Hubert H. Humphrey School 35, In Person Term Based; Kathryn Barr ; 1 cr.

### 5113 State and Local Public Finance

(Student Option; Prereq: Grad or instr consent)  
 58946 001 LEC, 18:00-20:45 W, Hubert H. Humphrey School 15, Partially Online; Merlene-Patrice Quispe ; 3 cr.

### 5122 Law and Public Affairs

(Student Option; Prereq: Grad or instr consent)  
 58995 001 LEC, 18:00-20:45 T, Hubert H. Humphrey School 20, In Person Term Based; Devin Driscoll ; 3 cr.

### 5123 Philanthropy in America: History, Practice, and Trends

(Student Option; )  
 59001 001 LEC, 17:45-20:30 W, Hubert H. Humphrey School 35, In Person Term Based; Jennifer Reedy ; 1.5-3 cr.

### 5136 Group Process Facilitation for Organizational and Public/Community Engagement

(Student Option No Audit; )  
 59023 001 LEC, 09:00-16:00 Sa, Hubert H. Humphrey School 15, 09:00-16:00 Sa, Hubert H. Humphrey School 35, In Person Term Based; Angelica Klebsch ; 1 cr.

**5145 Civic Participation in Public Affairs**

(A-F only ;)  
59009 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 50B, In Person Term Based; Fernando Burga ; 3 cr.

**5162 Public Service Redesign Workshop**

(A-F only ;)  
58981 001 LEC, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, 08:30-12:00 F, Hubert H. Humphrey School 15, Partially Online; Carol LaBine, Rosalva Hernandez ; 3 cr.

**5190 Topics in Public and Nonprofit****Leadership and Management**

(Student Option ;)  
66830 002 LEC, 14:30-15:45 MW, Ford Hall B10, In Person Term Based; Meets With: 001 POL 3752001 CHIC 3852; Guillermo Narvez ; 1-3 cr.  
68000 001 LEC, 09:00-13:00 Sa, Hubert H. Humphrey School 35, 09:00-13:00 Sa, Hubert H. Humphrey School 35, 09:00-13:00 Sa, Hubert H. Humphrey School 35, 09:00-13:00 Sa, Hubert H. Humphrey School 35, In Person Term Based; Sandra Wolfe Wood ; 1-3 cr.

**5209 Urban Planning and Health Equity**

(Student Option ;)  
58989 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey School 60, In Person Term Based; Yingling Fan, Samantha Gailey ; 3 cr.

**5213 Introduction to Site Planning**

(Student Option; Prereq: Grad student or instr consent)  
58958 001 LEC, 18:00-20:45 M, Hubert H. Humphrey School 35, In Person Term Based; Fernando Burga ; 3 cr.

**5234 Urban Transportation Planning and Policy**

(A-F or Audit ;)  
59015 001 LEC, 11:15-12:30 TTh, Hubert H. Humphrey School 20, In Person Term Based; Jason Cao ; 3 cr.

**5261 Housing Policy**

(A-F or Audit; Prereq: Grad or instr consent)  
58918 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey School 25, In Person Term Based; Tony Damiano ; 3 cr.

**5263 Financing Affordable Multi-Family Rental Hsg in US**

(Student Option No Audit ;)  
69577 001 LEC, 13:00-15:45 F, Hubert H. Humphrey School 35, In Person Term Based; Deidre Schmidt ; 3 cr.

**5271 Geographic Information Systems:****Applications in Planning and Policy**

Analysis  
(Student Option; Prereq: Major in urban/regional planning or instr consent)  
58943 001 LAB, 18:00-20:45 T, Hubert H. Humphrey School 85, In Person Term Based; Hui Kong ; 3 cr.

**5290 Topics in Planning**

(Student Option ;)  
66361 003 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Hui Kong ; 0.5-4 cr.  
66362 004 LEC, 16:00-17:15 MW, Twin Cities Remote, Completely Online; Hui Kong ; 0.5-4 cr.  
67970 002 LEC, 16:00-17:40 TTh, Hubert H. Humphrey School 30, In Person Term Based; Jason Cao ; 0.5-4 cr.

**5311 Program Evaluation**

(Student Option; Prereq: Grad student or instr consent)  
59008 001 LEC, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, 12:30-15:15 F, Hubert H. Humphrey School 15, Partially Online; Pete Bernardy ; 3 cr.

**5312 Cost-Benefit Analysis for Program Evaluation**

(Student Option No Audit; Prerequisite: PA 5021 or other prior course in microeconomics.)  
66648 001 LEC, 14:30-15:45 MW, Hubert H. Humphrey School 184, In Person Term Based; Judy Temple ; 2 cr.

**5405 Public Policy Implementation**

(A-F or Audit ;)  
66812 001 LEC, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Kaylee Myhre Errecaborde ; 3 cr.

**5415 Economics of Early Childhood Development**

(A-F only ;)  
65844 001 LEC, 16:00-17:15 MW, Hubert H. Humphrey School 20, In Person Term Based; Judy Temple ; 1.5-3 cr.

**5416 Economics of U.S. Social Insurance Programs**

(A-F only; Prerequisite: PA 5021 or other prior course in microeconomics.)  
66649 001 LEC, 11:15-12:30 TTh, Hubert H. Humphrey School 60, In Person Term Based; Maria Hanratty ; 3 cr.

**5422 Diversity and Public Policy**

(A-F only ;)  
66753 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 35, In Person Term Based; David Stanton ; 3 cr.

**5490 Topics in Social Policy**

(Student Option ;)  
67687 002 LEC, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 35, In Person Term Based; Nadarajan Sethuraju ; 1-4 cr.

**5504 Transforming Development**

(Student Option ;)  
66691 001 LEC, 11:15-12:30 TTh, Hubert H. Humphrey School 35, In Person Term Based; Greta Friedemann-Sanchez ; 3 cr.

**5521 Development Planning and Policy**

Analysis  
(Student Option; Prereq: 5031 or equiv recommended or instr consent)  
58920 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey School 184, In Person Term Based; Ragui Assaad ; 4 cr.  
58924 002 LAB, 08:15-09:30 F, Hubert H. Humphrey School 85, In Person Term Based; Ragui Assaad ; 4 cr.

**5631 LGBTQ Politics & Policy**

(A-F only ;)  
66831 001 LEC, 11:15-12:30 MW, Twin Cities Remote, Completely Online; Ryan Bell ; 1.5 cr.

**5690 Topics in Women, Gender and Public Policy**

(Student Option; Prereq: Grad student or instr consent)  
65848 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey School 35, In Person Term Based; Meets With: 001 PA 8690; Christina Ewig ; 0.5-3 cr.

**5715 Survey of Current Issues in Science,****Technology, and Environmental Policy**

(A-F only; Prereq: Grad or instr consent)  
58925 001 LEC, 11:15-12:30 M, Hubert H. Humphrey School 35, In Person Term Based; Bonnie Keeler ; 1.5 cr.

**5723 Water Policy**

(Student Option; Prereq: Grad student or instr consent)  
58926 001 LEC, 12:30-13:45 TTh, Twin Cities Remote, Completely Online; Meets With: 001 WRS 5101; Jeffrey Peterson ; 3 cr.

**5731 Emerging Sciences and****Technologies: Policy, Ethics and Law**

(Student Option ;)  
66373 001 LEC, 14:30-15:45 MW, Hubert H. Humphrey School 274, In Person Term Based; Peter Calow ; 3 cr.

**5741 Risk, Resilience and Decision Making**

(Student Option No Audit; Prereq: Grad student or instr consent)  
58944 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey School 184, In Person Term Based; Peter Calow ; 1.5 cr.

**5751 Addressing Climate and Energy****Challenges at the Local Scale**

(A-F or Audit ;)  
66898 001 LEC, 16:00-17:15 TTh, Hubert H. Humphrey School 35, In Person Term Based; Elise Harrington ; 3 cr.

**5761 Environmental Systems Analysis at the Food-Energy-Water Nexus**

(Student Option ;)

66469 001 LEC, 18:00-20:45 T, Hubert H. Humphrey School 50B, In Person Term Based; Bonnie Keeler ; 3 cr.

**5790 Topics in Science, Technology, and Environmental Policy**

(Student Option ;)  
68279 002 LEC, 08:15-11:00 T, Room TBA, In Person Term Based; Gabriel Chan ; 1-3 cr.  
68290 001 LEC, 08:15-11:00 T, Hubert H. Humphrey School 35, In Person Term Based; Gabriel Chan ; 1-3 cr.

**5814 Global Diplomacy in a Time of Change**

(Student Option No Audit ;)  
58964 001 LEC, 09:45-11:00 TTh, Hubert H. Humphrey School 20, In Person Term Based; Mary Curtin ; 3 cr.

**5825 Crisis Management in Foreign Affairs**

(Student Option ;)  
58985 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, 18:00-20:45 Th, Hubert H. Humphrey School 20, In Person Term Based; Steven Andreasen ; 1.5 cr.

**5887 Master of Human Rights Cohort Seminar II**

(S-N only ;)  
58963 001 LEC, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, 14:30-16:25 T, Hubert H. Humphrey School 50B, In Person Term Based; Janet Walsh ; 1 cr.

**5890 Topics in Foreign Policy and International Affairs**

(Student Option ;)  
66694 003 LEC, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, 11:30-12:45 M, Hubert H. Humphrey School 131, In Person Term Based; Janet Walsh ; 0.5-5 cr.  
66846 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey School 35, In Person Term Based; Janet Walsh ; 0.5-5 cr.  
66847 002 LEC, 08:15-09:30 TTh, Twin Cities Remote, Completely Online; Dipali Mukhopadhyay ; 0.5-5 cr.

**5920 Skills Workshop**

(Student Option ;)  
66845 003 LEC, 18:00-20:45 M, Hubert H. Humphrey School 184, In Person Term Based; Bonnie Keeler ; 0.5-4 cr.  
67638 004 LEC, 08:30-17:00 Sa, Twin Cities Remote, 08:30-17:00 Sa, Twin Cities Remote, Completely Online; Tadd Johnson, Joseph Bauerkemper ; 0.5-4 cr.

**5926 Presentation Skills: How to Inspire Your Audience and Change the World**

(Student Option No Audit ;)  
58969 001 LEC, 11:15-12:55 W, Hubert H. Humphrey School 20, In Person Term Based; Jamey Hansen ; 1 cr.  
68094 002 LEC, 11:15-12:55 Th, Hubert H. Humphrey School 25, In Person Term Based; Gwendolyn Freed ; 1 cr.

**5927 Effective Grantwriting for Nonprofit Organizations**

(Student Option No Audit ;)  
58993 001 LEC, 17:45-20:30 W, Twin Cities Remote, Completely Online; Mallory Mitchell ; 1.5 cr.

**5928 Data Management and Visualization with R**

(Student Option; Prerequisite knowledge: Introductory statistics; ability to create bar graphs, line graphs, and scatter plots in MS Excel; and familiarity with principles of data visualization.)  
66650 001 LAB, 14:30-15:45 TTh, Hubert H. Humphrey School 85, In Person Term Based; Tao Tao ; 1 cr.

**5929 Data Visualization: Telling Stories with Numbers**

**(Student Option; )**

58966 001 LAB, 14:30-15:45 TTh, Hubert H. Humphrey School 85, 13:00-16:00 Sa, Hubert H. Humphrey School 85, In Person Term Based; Audrey Dorelien ; 2 cr.  
58976 002 LAB, 16:00-17:15 TTh, Twin Cities Remote, 13:00-16:00 Sa, Twin Cities Remote, Completely Online; Audrey Dorelien ; 2 cr.

**5933 Survey Methods: Designing Effective Questionnaires****(A-F only; )**

66726 001 LEC, 16:00-17:40 M, Blegen Hall 330, In Person Term Based; Deborah Levison ; 2 cr.

**5962 State Governing and Legislating: Working the Process****(A-F only; )**

58991 001 LEC, 18:00-20:45 M, Hubert H. Humphrey School 60, In Person Term Based; Briana Bierschbach ; 3 cr.

**5972 Elections and the Law****(Student Option No Audit; )**

58960 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 PA 3972; Judd Choate ; 2 cr.

**5975 Election Design****(Student Option No Audit; )**

66129 001 LEC, Completely Online; Meets With: 001 PA 3975; Whitney Quesenbery ; 2 cr.

**5976 Voter Participation****(Student Option No Audit; )**

58918 001 LEC, Completely Online; Meets With: 001 PA 3976; Astrid Ochoa ; 1 cr.

**5984 Elections Security: How to Protect America's Elections****(A-F or Audit; )**

59032 001 LEC, Completely Online; Meets With: 001 PA 3984; Maurice Turner ; 2 cr.

**Public Health (PUBH)****1001 Success Over Stress (SOS)****(Student Option; Prereq: Undergrad or PSEO student)**

64261 001 LEC, Completely Online; Sarah Keene ; 1 cr.  
64268 002 LEC, Completely Online; Sarah Keene ; 1 cr.  
64292 006 LEC, Completely Online; Sarah Keene ; 1 cr.  
69538 003 LEC, Completely Online; Sarah Keene ; 1 cr.

**1002 Personal Technology and Wellbeing****(Student Option; Prerequisite: Undergraduate or PSEO student.)**

65700 001 LEC, Completely Online; Laurie Lucachick ; 1 cr.

**1003 Alcohol and College Life (ACL)****(Student Option; Prereq: Undergrad or PSEO student.)**

64052 001 LEC, Completely Online; Laurie Lucachick ; 1 cr.

**1004 Sexuality Matters****(Student Option; Prereq: Undergrad or PSEO student)**

64276 001 LEC, Completely Online; Emily Matson ; 1 cr.  
64277 004 LEC, Completely Online; Emily Matson ; 1 cr.

**1005 Sleep, Eat, and Exercise****(Student Option; Prereq: [Undergrad or PSEO] student)**

64193 001 LEC, Completely Online; Lindsey Poquette ; 1 cr.  
64256 002 LEC, Completely Online; Lindsey Poquette ; 1 cr.  
64262 006 LEC, Completely Online; Lindsey Poquette ; 1 cr.

**3001 Personal and Community Health****(Student Option; )**

63991 001 LEC, 12:20-13:10 MW, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando, Sarah Tummala ; 2 cr.

**3003 Fundamentals of Alcohol and Drug Abuse****(Student Option; )**

63992 001 LEC, 12:20-13:10 TTh, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando, Sarah Tummala ; 2 cr.

**3004 Basic Concepts in Personal and Community Health****(Student Option; )**

63997 001 LEC, 12:20-13:10 MTWTh, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Harry Lando, Sarah Tummala ; 4 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)**

63993 001 LEC, 14:30-16:25 T, Moos Health Sci Tower 5-125, In Person Term Based; Julie Sanem ; 2 cr.

**3106 Making Sense of Health Studies****(Student Option; )**

64265 001 LEC, 12:20-14:15 Th, Molecular Cellular Biol 2-120, In Person Term Based; George Maldonado ; 2 cr.

**3193 Environmental Health: Directed Studies****(S-N only; )**

64385 001 IND, In Person Term Based; Claudia Munoz-Zanzi ; 1-3 cr.  
64395 002 IND, In Person Term Based; Petrona Lee ; 1-3 cr.

**3212 Infectious Disease Outbreaks: Review of Public Health Investigation, Response, & Prevention Strategy****(A-F only; Prereq: BIOL 1xxx or equivalent Honor students who have completed HSEM 2707H are NOT eligible to register for this course.)**

64343 001 DIS, 13:25-15:20 W, Phillips-Wangenstn 3154/3156, In Person Term Based; Jill DeBoer ; 2 cr.

**3351 Epidemiology: People, Places, and Disease****(Student Option; Prereq: Undergrad statistics course is recommended)**

64263 001 LEC, 15:35-17:30 Th, Mayo Bldg & Additions 3-100, In Person Term Based; Ruby Nguyen ; 2 cr.

**3601 Global Public Health Issues****(A-F only; Prereq: Public Health minor requirements or instr consent, [3202 or 3001 or 3004], [3351 or 3106])**

64278 001 LEC, Completely Online; Sarah Cusick ; 2 cr.

**3801 Health Economics and Policy****(Student Option; Prereq: Course on microeconomics, course on basic statistics)**

64016 101 LEC, 11:15-12:30 TTh, Mayo Bldg & Additions 3-100, In Person Term Based; Caitlin Carroll ; 3 cr.

**3893 Directed Study: Health Services****Research and Policy****(Student Option; Prereq: instr consent)**

64417 001 IND, In Person Term Based; Dori Cross ; 1-4 cr.

**3955 Using Policy to Address the Weight-Related Health of Child and Adolescent Populations****(Student Option; )**

64303 320 LEC, Completely Online; Nicole Larson, Melissa Laska ; 1 cr.

**Rehabilitation Science (RSC)****5235 Advanced Biomechanics II: Kinetics****(A-F or Audit; Prereq: 5135 or equiv or instr consent)**

63280 001 LEC, 12:20-13:50 MW, Health Sciences Edu Ctr 4-193, In Person Term Based; Arin Ellingson ; 3 cr.

**5294 Independent Study in Rehabilitation Science****(Student Option; Prereq: Rehabilitation science student or program approval)**

62322 001 IND, 00:00-00:00 , , In Person Term Based; Paula Ludewig ; 1-3 cr.

62544 002 IND, 00:00-00:00 , , In Person Term Based; Brendan Dougherty ; 1-3 cr.

62545 003 IND, 00:00-00:00 , , In Person Term Based; Sara Koehler-McNicholas ; 1-3 cr.

62546 004 IND, 00:00-00:00 , , In Person Term Based; Arin Ellingson ; 1-3 cr.

62547 005 IND, 00:00-00:00 , , In Person Term Based; John Ferguson ; 1-3 cr.

62548 006 IND, 00:00-00:00 , , In Person Term Based; Dawn Lowe ; 1-3 cr.

62549 007 IND, 00:00-00:00 , , In Person Term Based; Andrew Hansen ; 1-3 cr.

62550 008 IND, 00:00-00:00 , , In Person Term Based; LeAnn Snow ; 1-3 cr.

62551 009 IND, 00:00-00:00 , , In Person Term Based; Manda Keller-Ross ; 1-3 cr.

62552 010 IND, 00:00-00:00 , , In Person Term Based; Peggy Martin ; 1-3 cr.

62616 011 IND, 00:00-00:00 , , In Person Term Based; Justin Staker ; 1-3 cr.

63217 012 IND, In Person Term Based; Corey McGee ; 1-3 cr.

63218 013 IND, In Person Term Based; Linda Koehler ; 1-3 cr.

63219 014 IND, In Person Term Based; Ricardo Battaglio ; 1-3 cr.

63220 015 IND, In Person Term Based; Ann Van de Winckel ; 1-3 cr.

**5310 Cardiopulmonary Physiology and Rehabilitation****(A-F or Audit; )**

63213 001 LAB, 10:10-11:00 W, AHC ROOM TBA, 08:00-09:55 MF, AHC ROOM TBA, In Person Term Based; Peter Freeborn ; 2-4 cr.

**5402 The Shoulder in Sports Rehabilitation Science****(A-F or Audit; Prereq: (1) an undergraduate or graduate human anatomy course and (2) an undergraduate or graduate biomechanics course. It is recommended, but not required, you have an anatomy course including a detailed shoulder anatomy section and a biomechanics course including a detailed shoulder biomechanics section. Consent from course instructor or Rehabilitation Science graduate program is required. )**

63279 001 LEC, In Person Term Based; Justin Staker ; 3 cr.

**5842 Teaching and Learning in Rehabilitation Science****(Student Option; )**

69682 001 LEC, Completely Online; 1 cr.

**Religious Studies (RELS)****1001 Introduction to the Religions of the World****(Student Option; GP)**

54574 001 LEC, 17:30-20:00 T, Nicholson Hall 35, In Person Term Based; Aisha Ghani ; 3 cr.

**1082 Jesus in History, Art & Culture****(Student Option; HIS)**

55543 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In Person Term Based; Meets With: 001 HIST 1082001 CNRC 3092001 RELS 3092001 CNRC 1082001 HIST 3092; Stephen Ahearne-Kroll ; 3 cr.

56089 003 DIS, 10:10-11:00 F, Nicholson Hall 145, In Person Term Based; Meets With: 002 CNRC 1082003 HIST 1082; Kristi Lee ; 3 cr.

**3001W Theory and Method in Religion: Critical Approaches to the Study of Religion****(Student Option; WI)**

54647 001 DIS, 14:30-15:45 MW, Nicholson Hall 135, In Person Term Based; Meets With: 001 RELS 5001; Jeanne Kilde ; 3 cr.

**3071 Greek and Hellenistic Religions****(Student Option; HIS)**

68352 001 LEC, 11:15-12:30 MW, Elliott Hall N647, In Person Term Based; Meets With: 001 CNRC 3071001 CNRC 5071; Stephen Ahearne-Kroll ; 3 cr.

**3072 The Birth of Christianity****(Student Option; AH)**

68355 001 LEC, 14:30-15:45 MW, Nicholson Hall 115, In Person Term Based; Meets With: 001 CNRC 3072; Joshua Reno ; 3 cr.

**3079 Muslims and Jews: Conflict and Co-existence in the Middle East and North Africa since 1700****(Student Option; GP,HIS)**

68411 001 LEC, 16:00-17:15 MW, Blegen Hall 150, In Person Term Based; Meets With: 001 JWST 3511001 HIST 3511; Noam Sienna ; 3 cr.

**3092 Jesus in History, Art & Culture****(Student Option; HIS)**

55544 001 LEC, 09:05-09:55 MW, Elliott Hall N119, In Person Term Based; Meets With: 001 HIST 3092001 CNRC 3092001 RELS 1082001 HIST 1082001 CNRC 1082; Stephen Ahearne-Kroll ; 3 cr.

56090 002 DIS, 12:20-13:10 F, Nicholson Hall 345, In Person Term Based; Meets With: 002 HIST 3092003 CNRC 3092; Kristi Lee ; 3 cr.

**3205 Women, Gender, and the Hebrew Bible**

(Student Option; AH)  
55494 001 LEC, 13:00-14:15 MW, Nicholson Hall 125, In Person Term Based; Meets With: 001 CNRC 3205001 JWST 3205; Tina Sherman ; 3 cr.

**3206 Sex, Murder, and Bodily Discharges: Purity and Pollution in the Ancient World**

(Student Option; )  
55637 001 DIS, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 CNRC 3206001 ANTH 3206001 MEST 3206001 JWST 3206; Patricia Ahearne-Kroll ; 3 cr.

**3321 American Indian Philosophies**

(Student Option; AH,DSJ)  
56497 001 LEC, 13:00-14:15 MW, Nicholson Hall 115, In Person Term Based; Meets With: 001 AMIN 3301; Alex Ghebregzi ; 3 cr.

**3415W Art of India**

(Student Option; AH,WI,GP)  
55360 001 LEC, 11:15-12:30 MW, Blegen Hall 255, In Person Term Based; Meets With: 001 ARTH 3014W; Anna Seastrand ; 3 cr.  
55361 002 LEC, 13:25-14:15 M, Hubert H. Humphrey School 20, In Person Term Based; Meets With: 002 ARTH 3014W; 3 cr.  
55362 004 LEC, 10:10-11:00 W, Hubert H. Humphrey School 60, In Person Term Based; Meets With: 004 ARTH 3014W; 3 cr.

**3543 Pagans, Christians, Barbarians: The World of Late Antiquity**

(A-F or Audit; GP,HIS)  
68591 001 LEC, 08:15-09:30 TTh, Blegen Hall 130, In Person Term Based; Meets With: 001 MEST 3617001 HIST 3617001 CNRC 3617; Benjamin Hansen ; 3 cr.

**3612 Baroque Rome: Art and Politics in the Papal Capital**

(Student Option; HIS)  
56270 001 LEC, 13:00-14:15 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 ARTH 3335001 RELS 5612001 ARTH 5335; Steven Ostrow ; 3 cr.

**3627 The End of the World in Literature and History**

(Student Option; HIS)  
55183 001 DIS, 11:15-12:30 TTh, Twin Cities Remote, Completely Online; Meets With: 001 ENGL 3025; John Watkins ; 3 cr.

**3631 Islam in America: A History of the Present**

(A-F or Audit; )  
68139 001 DIS, 17:00-19:30 M, Pillsbury Hall 311, In Person Term Based; Meets With: 001 ANTH 3631; Aisha Ghani ; 3 cr.

**3704 Exploring the Quran: An intellectual odyssey with Islam's holy scripture**

(A-F or Audit; AH)  
55545 001 DIS, 09:45-11:00 TTh, Elliott Hall N119, In Person Term Based; Meets With: 001 CNRC 3074; Adam Flowers ; 3 cr.

**3722 The Ottoman Empire**

(Student Option; GP,HIS)  
68592 001 LEC, 16:00-17:15 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 HIST 3547; Fikri Cicek ; 3 cr.

**3777 The Diversity of Traditions: Indian Empires after 1200**

(Student Option; Prerequisites for this course.)  
68440 001 LEC, 13:00-14:15 MW, Blegen Hall 250, In Person Term Based; Meets With: 001 ARTH 5777001 RELS 5777001 ARTH 3777; Anna Seastrand ; 3 cr.

**3993 Directed Studies**

(Student Option; )  
52767 001 IND, 00:00-00:00 , In Person Term Based; Jeanne Kilde ; 1-4 cr.  
56686 002 IND, In Person Term Based; Stephen Ahearne-Kroll ; 1-4 cr.

**4993 Capstone: Directed Study**

(Student Option; )  
69676 001 IND, In Person Term Based; Jeanne Kilde ; 1-4 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)  
54648 001 DIS, 14:30-15:45 MW, Nicholson Hall 135, In Person Term Based; Meets With: 001 RELS 3001W; Jeanne Kilde ; 3 cr.

**5612 Baroque Rome: Art and Politics in the Papal Capital**

(Student Option; )  
56271 001 LEC, 13:00-14:15 TTh, Blegen Hall 150, In Person Term Based; Meets With: 001 ARTH 3335001 RELS 3612001 ARTH 5335; Steven Ostrow ; 3 cr.

**5777 The Diversity of Traditions: Indian Empires after 1200**

(Student Option; )  
68442 001 LEC, 13:00-14:15 MW, Blegen Hall 250, In Person Term Based; Meets With: 001 ARTH 3777001 ARTH 5777001 RELS 3777; Anna Seastrand ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent)  
52935 001 IND, In Person Term Based; 1-4 cr.

**Retail Merchandising (RM)****1201 Fashion, Ethics, and Consumption**

(Student Option; CIV)  
50290 001 LEC, Completely Online; Heejin Lim ; 3 cr.

**2196 Work Experience in Retail Merchandising**

(S-N only; Prereq: Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent)  
50263 001 FWK, Independent/Directed Study; Hyunjoo Im ; 1-4 cr.  
50264 002 FWK, Independent/Directed Study; Hye-Young Kim ; 1-4 cr.  
50265 003 FWK, Independent/Directed Study; Juanjuan Wu ; 1-4 cr.  
65949 004 FWK, Independent/Directed Study; Lauren Kim ; 1-4 cr.  
69608 005 FWK, Independent/Directed Study; Peggy Lord ; 1-4 cr.

**2215 Introduction to Retail Merchandising**

(A-F or Audit; )  
50266 001 LEC, Completely Online; 3 cr.

**2234 Retailing in a Digital Age**

(A-F only; TS)  
50366 001 LEC, Completely Online; Heejin Lim ; 3 cr.

**3124 Consumers of Design**

(A-F only; Prereq: retail merchandising major or minor)  
50345 001 DIS, 10:15-11:30 TTh, McNeal Hall 10, In Person Term Based; 3 cr.

**3170 Topics in Retail Merchandising**

(A-F or Audit; )  
67886 001 LEC, 13:30-14:45 MW, McNeal Hall 233, In Person Term Based; 1-4 cr.

**3196 Field Study: National or International**

(A-F or Audit; Prereq: instr consent)  
50377 001 FWK, Independent/Directed Study; 1-4 cr.

**3201 Career and Internship Preparation for Retail Merchandising**

(A-F only; Prereq: Retail merchandising major)  
50267 001 LEC, 09:35-10:25 W, Twin Cities Remote, Completely Online; Kristen Murphy ; 1 cr.

**3242 Retail Buying**

(A-F or Audit; Prereq: [2215 or DHA 2215], [MATH 1031 or MATH 1051 or MATH 1142 or MATH 1151 or MATH 1155 or MATH 1271 or CALG student group], [jr or sr], retail merchandising [major or minor]) or instr consent)  
50368 001 DIS, 13:30-14:45 TTh, Ruttan Hall B25, In Person Term Based; 3 cr.

**3244 Virtual Reality Retailing**

(A-F only; )  
65909 001 LEC, 13:30-16:15 W, ONLINE BLENDED, 13:30-16:15 W, McNeal Hall 305, Partially Online; 2 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])  
50302 001 DIS, Completely Online; Meets With: 001 APST 5117; 3 cr.

**4123 Living in a Consumer Society**

(A-F only; Prereq: Sr, retail merchandising major or minor)  
50448 001 LEC, 11:45-13:00 MW, McNeal Hall 316, In Person Term Based; 3 cr.

**4160H Honors Capstone Project**

(A-F only; Prereq: Retail merchandising honors)  
50268 001 LEC, In Person Term Based; Hyunjoo Im ; 2 cr.  
50269 002 LEC, In Person Term Based; Hye-Young Kim ; 2 cr.  
50270 003 LEC, In Person Term Based; Juanjuan Wu ; 2 cr.  
65950 004 LEC, In Person Term Based; Lauren Kim ; 2 cr.

**4193 Directed Study in Retail Merchandising**

(A-F or Audit; Prereq: Undergrad, instr consent)  
50271 001 IND, Independent/Directed Study; Hyunjoo Im ; 1-4 cr.  
50272 002 IND, Independent/Directed Study; Hye-Young Kim ; 1-4 cr.  
50273 003 IND, Independent/Directed Study; Juanjuan Wu ; 1-4 cr.  
65951 004 IND, Independent/Directed Study; Lauren Kim ; 1-4 cr.

**4196 Internship in Retail Merchandising**

(S-N only; Prereq: Completion of at least one-half of professional sequence, plan submitted/approved in advance by [adviser, internship supervisor], written consent of faculty supervisor, instr consent)  
50274 001 FWK, Independent/Directed Study; Hyunjoo Im ; 1-2 cr.  
50275 002 FWK, Independent/Directed Study; Hye-Young Kim ; 1-2 cr.  
50276 003 FWK, Independent/Directed Study; Juanjuan Wu ; 1-2 cr.  
50484 004 FWK, Independent/Directed Study; Peggy Lord ; 1-2 cr.  
65952 005 FWK, Independent/Directed Study; Lauren Kim ; 1-2 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])  
50277 001 LEC, 11:45-13:00 MW, Ruttan Hall B35, In Person Term Based; 3 cr.

**4247 Advanced Buying and Sourcing**

(A-F or Audit; Prereq: RM 2215, RM 3242, [DHA major or minor or instr consent])  
50278 001 LEC, 08:45-10:00 TTh, McNeal Hall 395, In Person Term Based; 3 cr.

**4248 Creative Leadership in Retailing**

(A-F only; )  
50351 001 LEC, 15:00-16:15 TTh, McNeal Hall 316, In Person Term Based; 3 cr.

**Robotics (ROB)****5994 Directed Research**

(A-F only; )  
69224 001 IND, In Person Term Based; Nikolaos Papanikolopoulos ; 1-3 cr.

**5996 Curricular Practical Training**

(S-N only; Prereq: robotics major, instr consent )  
69226 001 FWK, In Person Term Based; Nikolaos Papanikolopoulos ; 1 cr.

**Russian (RUSS)****1102 Beginning Russian II**

(Student Option; Prereq: 1101 or equiv)  
52686 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 RUSS 4102; Erik McDonald ; 5 cr.  
52687 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 002 RUSS 4102; Nadya Clayton ; 5 cr.

52688 003 DIS, 14:30-15:20 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 RUSS 4102; Yana Taets ; 5 cr.

### 3002 Intermediate Russian II

(Student Option; Prereq: 3001 or instr consent)  
54242 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 RUSS 4104; Nadya Clayton ; 5 cr.  
54243 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 RUSS 4104; Yana Taets ; 5 cr.

### 3102 Advanced Russian II

(Student Option; Prereq: 3101 or 4111 or instr consent)  
52657 001 DIS, 14:30-15:20 MTWTh, Folwell Hall 31, In Person Term Based; Meets With: 002 RUSS 4112; Erik McDonald ; 4 cr.

### 3105 Russian Poetry and Prose

(Student Option; Prereq: Russ 3102 or concurrent enrollment in Russ 3102 or permission)  
56261 001 DIS, 11:15-12:30 MW, Kolthoff Hall 132, In Person Term Based; Erik McDonald ; 3 cr.

### 3311V Honors Major Project in Russian

(A-F only; Prereq: Advanced Russian majorWI)  
53293 001 IND, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 GSD 3451W001 RUSS 3311W001 GSD 3451V; Leslie Morris ; 3-4 cr.

### 3311W Russian Major Project

(A-F or Audit; Prereq: Advanced Russian majorWI)  
52658 001 IND, 13:00-14:15 MW, Twin Cities Remote, Completely Online; Meets With: 001 GSD 3451W001 GSD 3451V001 RUSS 3311V; Leslie Morris ; 3 cr.

### 3404 Tolstoy in Translation

(Student Option; GP,LITR)  
55804 001 DIS, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 RUSS 5404; Gary Jahn ; 3 cr.

### 3422 Literature: Tolstoy to the Present in Translation

(Student Option; LITR)  
66232 001 DIS, 10:10-11:00 MWF, Folwell Hall 112, In Person Term Based; Meets With: 001 RUSS 5422; Nadya Clayton ; 3 cr.

### 3993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
52659 001 IND, 00:00-00:00 , , In Person Term Based; Erik McDonald ; 1-4 cr.

### 4102 Beginning Russian for Graduate Research II

(Student Option; Prereq: 4101)  
54246 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 RUSS 1102; Erik McDonald ; 5 cr.  
54247 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 002 RUSS 1102; Nadya Clayton ; 5 cr.  
54248 003 DIS, 14:30-15:20 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 003 RUSS 1102; Yana Taets ; 5 cr.

### 4104 Intermediate Russian II

(Student Option; Prereq: 4103)  
54244 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 RUSS 3002; Nadya Clayton ; 5 cr.  
54245 002 DIS, 13:25-14:15 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 RUSS 3002; Yana Taets ; 5 cr.

### 4112 Advanced Russian for Graduate Research II

(Student Option; Prereq: 3101 or 4111 or instr consent)  
54698 002 DIS, 14:30-15:20 MTWTh, Folwell Hall 31, In Person Term Based; Meets With: 001 RUSS 3102; Erik McDonald ; 4 cr.

### 5404 Tolstoy in Translation

(Student Option; GP,LITR)  
55805 001 DIS, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 RUSS 3404; Gary Jahn ; 3 cr.

### 5422 Literature: Tolstoy to the Present in Translation

(Student Option; LITR)  
66233 001 DIS, 10:10-11:00 MWF, Folwell Hall 112, 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.)  
53174 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

## Scandinavian (SCAN)

### 3504 Emigration, Immigration, Integration: The Nordic Experience

(Student Option; GP,HIS)  
68283 001 DIS, 14:30-15:45 MW, Folwell Hall 28, In Person Term Based; Lena Norrman ; 3 cr.

### 3617 Scandinavian Gothic: Horror and the Uncanny in Nordic Literature and Media

(Student Option; AH,GP)  
56127 001 DIS, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 SCAN 5617; Benjamin Bigelow ; 3 cr.

### 3993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
52988 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

### 5502 The Icelandic Saga

(Student Option; )  
66236 001 DIS, 14:30-15:45 TTh, Folwell Hall 122, In Person Term Based; Anatoly Liberman ; 3 cr.

### 5617 Scandinavian Gothic: Horror and the Uncanny in Nordic Literature and Media

(Student Option; AH,GP)  
56128 001 DIS, 13:00-14:15 TTh, Twin Cities Remote, Completely Online; Meets With: 001 SCAN 3617; Benjamin Bigelow ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq instr consent, dept consent, college consent.)  
52989 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

## School for Field Studies (SFS)

## Senegal (SNGL)

## Social Work (SW)

### 1501 Introduction to Peace Studies

(A-F only; GP)  
52110 001 LEC, 13:30-14:45 MW, Peters Hall 74, In Person Term Based; Hilal Isler ; 3 cr.

### 2501W Introduction to Social Justice

(A-F only; WI,DSJ)  
51545 001 LEC, 17:10-20:30 T, Peters Hall 155, In Person Term Based; Nate Whittaker ; 4 cr.  
66653 002 LEC, 12:20-14:15 MW, Appleby Hall 128, In Person Term Based; Camille Cyprian ; 4 cr.

### 3501 Theories and Practices of Social Change Organizing

(A-F only; )  
51521 001 DIS, 16:00-19:20 Th, Peters Hall 5, In Person Term Based; Nate Whittaker ; 4 cr.

### 3701 Introduction to Child Maltreatment: Intervention and Prevention

(Student Option; )  
51517 001 LEC, 13:55-16:25 M, Peters Hall 80, In Person Term Based; Katie Erickson ; 3 cr.

### 3702 Introduction to Adult Intimate Partner Violence: Intervention and Prevention

(Student Option; )  
51253 001 LEC, 08:45-10:00 TTh, Peters Hall 74, In Person Term Based; Oliver Williams ; 3 cr.

### 3703 Gender Violence in Global Perspective

(Student Option; )  
51174 001 LEC, 17:30-20:00 W, Peters Hall 145, In Person Term Based; Deena Anders, Theresa Dykoschak ; 3 cr.

### 4501 Senior Seminar in Social Justice

(A-F only; Prereq: 2501, 3501)  
51540 001 LEC, 13:30-16:30 W, Peters Hall 155, In Person Term Based; Sara Kettering ; 4 cr.

### 4693 Directed Studies

(Student Option; Prereq: instr consent)  
51097 001 IND, Independent/Directed Study; 1-10 cr.  
51293 002 IND, Independent/Directed Study; 1-10 cr.  
51629 003 IND, Independent/Directed Study; 1-10 cr.

### 4694 Directed Research

(Student Option; Prereq: instr consent)  
51098 001 IND, Independent/Directed Study; 1-10 cr.

### 5904 Facilitation and Conflict Management: Humanistic Approach

(Student Option; )  
51565 001 LEC, 09:35-11:30 Th, Peters Hall 155, In Person Term Based; Mark Umbreit ; 2 cr.

### 5905 Permanency in Child Welfare

(A-F or Audit; Prereq: Grad student or dept consent)  
51808 001 LEC, 08:00-12:00 Sa, Peters Hall 5, 08:00-12:00 Sa, Peters Hall 5, 08:00-12:00 Sa, Peters Hall 5, 08:00-12:00 Sa, Peters Hall 5, In Person Term Based; Heidi Ombisa Skallet ; 2 cr.

### 5907 School Social Work

(Student Option; )  
52038 001 LEC, 17:10-20:00 M, Peters Hall 39, In Person Term Based; Barbara Mersy ; 1 cr.

### 5912 Grief and Loss in Social Work Practice

(Student Option; )  
51887 001 LEC, 17:10-20:00 F, Peters Hall 5, In Person Term Based; Stacy Remke ; 1 cr.

### 5991 Independent Study in Social Work

(Student Option; )  
51179 001 IND, Independent/Directed Study; 1-4 cr.

## Sociology (SOC)

### 1001 Introduction to Sociology

(Student Option; Prereq: Soc Majors/Minors must register A-FDSJ,SOCs)  
52514 001 LEC, 09:45-11:00 MW, Willey Hall 175, In Person Term Based; Jane VanHeuvelen ; 4 cr.  
52515 002 DIS, 11:15-12:05 M, Blegen Hall 260, In Person Term Based; 4 cr.  
52516 004 DIS, 08:40-09:30 W, Blegen Hall 205, In Person Term Based; 4 cr.  
52517 011 LEC, 13:00-14:15 MW, Anderson Hall 370, In Person Term Based; Teresa Swartz ; 4 cr.  
52518 014 DIS, 10:10-11:00 W, Blegen Hall 220, In Person Term Based; 4 cr.  
52519 016 DIS, 14:30-15:20 W, Blegen Hall 260, In Person Term Based; 4 cr.  
52520 021 LEC, 17:15-20:00 T, Twin Cities Remote, Completely Online; Hassan Abdel Salam ; 4 cr.  
52521 022 DIS, 16:10-17:00 T, Twin Cities Remote, Completely Online; 4 cr.  
52522 024 DIS, 16:10-17:00 T, Twin Cities Remote, Completely Online; 4 cr.  
53535 003 DIS, 11:15-12:05 M, Blegen Hall 205, In Person Term Based; 4 cr.  
53536 006 DIS, 08:40-09:30 W, Blegen Hall 115, In Person Term Based; 4 cr.  
54234 007 DIS, 11:15-12:05 W, Blegen Hall 260, In Person Term Based; 4 cr.  
54235 005 DIS, 08:40-09:30 W, Blegen Hall 260, In Person Term Based; 4 cr.  
54236 012 DIS, 09:05-09:55 W, Blegen Hall 230, In Person Term Based; 4 cr.  
54237 013 DIS, 09:05-09:55 W, Blegen Hall 220, In Person Term Based; 4 cr.  
54238 015 DIS, 10:10-11:00 W, Blegen Hall 125, In Person Term Based; 4 cr.  
54822 025 DIS, 20:15-21:05 T, Twin Cities Remote, Completely Online; 4 cr.  
54823 017 DIS, 14:30-15:20 W, Blegen Hall 205, In Person Term Based; 4 cr.  
55178 009 DIS, 11:15-12:05 W, Blegen Hall 225, In Person Term Based; 4 cr.

65718 023 DIS, 16:10-17:00 T, Twin Cities Remote, Completely Online; 4 cr.

65719 008 DIS, 11:15-12:05 W, Blegen Hall 335, In Person Term Based; 4 cr.

69515 026 DIS, 20:15-21:05 T, Twin Cities Remote, Completely Online; 4 cr.

### 1101 Law, Crime, & Punishment

(A-F or Audit; )

54808 001 LEC, 08:15-09:30 TTh, Blegen Hall 5, In Person Term Based; Gabrielle Ferrales ; 3 cr.

### 3005 Social Science Fiction

(A-F or Audit; )

65826 001 LEC, 11:15-12:30 TTh, Blegen Hall 120, In Person Term Based; David Knoke ; 3 cr.

### 3090 Topics in Sociology

(Student Option; Prereq: 1001 recommended; soc majors must register A-F; cr will not be granted if cr has been received for the same topics title)

65918 001 LEC, 09:45-11:00 MW, Blegen Hall 155, In Person Term Based; Teresa Swartz ; 3 cr.

### 3101 Sociological Perspectives on the Criminal Justice System

(A-F or Audit; Prereq: [SOC 1001] recommended, Sociology majors/minors must register A-FCIV)

53537 001 LEC, 17:30-20:00 M, Hanson Hall 1-106, In Person Term Based; Julie Barrows ; 3 cr.

### 3102 Criminal Behavior and Social Control

(Student Option; Prereq: Soc majors/minors must register A-F)

53538 001 LEC, 11:15-12:30 MW, Blegen Hall 10, In Person Term Based; Michael Walker ; 3 cr.

### 3211W Race and Racism in the US

(A-F or Audit; DSJ,WI)

55013 001 LEC, 11:15-12:30 TTh, Blegen Hall 255, In Person Term Based; Meets With: 001 AAS 3211W; Enid Logan ; 3 cr.

### 3215 Supercapitalism: Labor, Consumption & the Environment in the New Global Economy

(A-F only; )

65703 001 LEC, 09:45-11:00 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 GLOS 3215; Rachel Schurman ; 3 cr.

### 3225 Global Philanthropy, Charity & Power

(Student Option; )

69607 001 LEC, 14:30-15:45 TTh, Blegen Hall 260, In Person Term Based; Meets With: 001 GLOS 3225; Rachel Schurman ; 3 cr.

### 3251W Sociological Perspectives on Race, Class, and Gender

(A-F or Audit; Prereq: Soc majors/minors must register A-FDSJ,WI,SOCS)

54373 001 LEC, 14:30-15:45 TTh, Blegen Hall 250, In Person Term Based; Meets With: 001 AAS 3251W; Enid Logan ; 3 cr.

### 3452 Education and Society

(Student Option; Prereq: Soc majors/minors must register A-F.)

65705 001 LEC, 09:45-11:00 TTh, Blegen Hall 10, In Person Term Based; Cawo Abdi ; 3 cr.

### 3461 Sociology of Neighborhoods: People, Place, Housing, and Community

(A-F or Audit; )

66140 001 LEC, 14:30-15:45 TTh, Blegen Hall 135, In Person Term Based; Evan Roberts ; 3 cr.

### 3507 Immigration to the United States: Beyond Walls

(A-F or Audit; DSJ)

55501 001 LEC, 13:00-14:15 TTh, Blegen Hall 255, In Person Term Based; Jack DeWaar ; 3 cr.

### 3613W Stuffed and Starved: The Politics of Eating

(A-F or Audit; Prereq: Soc majors/minors must register A-FGP,WI,SOCS)

65707 001 LEC, 13:00-14:15 MW, Blegen Hall 150, In Person Term Based; Monica Jarvi ; 3 cr.

### 3701 Social Theory

(A-F or Audit; Prereq: 1001 recommended; soc majors/minors must register A-F)

52535 001 LEC, 09:05-10:45 MW, Anderson Hall 330, In Person Term Based; Joachim Savelsberg ; 4 cr.

55012 002 LEC, 12:20-14:00 MW, Blegen Hall 155, In Person Term Based; Mark Pharris ; 4 cr.

55397 301 LEC, Completely Online; Jean Marie Maier ; 4 cr.

### 3721 Principles of Social Psychology

(A-F or Audit; Prereq: 1001 recommended; soc majors/minors must register A-F)

65708 001 LEC, Completely Online; Jackie Austin ; 3 cr.

### 3801 Sociological Research Methods

(A-F or Audit; Prereq: 1001 recommended; soc majors must register A-F)

52529 001 LEC, 09:45-11:00 TTh, Blegen Hall 5, In Person Term Based; Jack DeWaar ; 4 cr.

52530 002 LAB, 09:45-11:00 W, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.

52531 003 LAB, 11:15-12:30 W, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.

52532 004 LAB, 13:00-14:15 W, Blegen Hall 230, In Person Term Based; 4 cr.

52533 005 LAB, 14:30-15:45 W, Blegen Hall 230, In Person Term Based; 4 cr.

65662 006 LAB, 08:15-09:30 Th, Blegen Hall 240, In Person Term Based; 4 cr.

### 3811 Social Statistics

(Student Option; Prereq: Credit will not be granted if credit has been received for Soc 5811 (Soc 5811 offered Fall terms only). Undergraduates with strong math background are encouraged to register for 5811 in lieu of 3811. Soc Majors/Minors must register A-F.MATH)

52496 001 LEC, 09:45-11:00 TTh, Anderson Hall 210, In Person Term Based; Yanjie Bian ; 4 cr.

52497 002 LAB, 08:00-09:30 W, Blegen Hall 440, In Person Term Based; 4 cr.

52498 003 LAB, 10:10-11:40 W, Blegen Hall 440, In Person Term Based; 4 cr.

52499 004 LAB, 12:20-13:50 W, Blegen Hall 440, In Person Term Based; 4 cr.

53600 008 LEC, 17:30-20:00 T, Hanson Hall 1-106, In Person Term Based; Ryan Larson ; 4 cr.

53601 009 LAB, 16:00-17:30 Th, Blegen Hall 440, In Person Term Based; 4 cr.

54239 005 LAB, 14:30-16:00 W, Blegen Hall 440, In Person Term Based; 4 cr.

54240 010 LAB, 18:00-19:30 Th, Blegen Hall 440, In Person Term Based; 4 cr.

### 4102 Criminology

(A-F or Audit; Prereq: [SOC 3101 or SOC 3102 or instr consent], Sociology majors/minors must register A-F)

55952 001 LEC, 17:30-20:00 Th, Hanson Hall 1-106, In Person Term Based; Meets With: 001 SOC 4102H; Joachim Savelsberg ; 3 cr.

### 4102H Honors: Criminology

(A-F only; Prereq: Honors student, [SOC 3101 or SOC 3102 or instr consent], Sociology majors/minors must register A-F)

65709 001 LEC, 17:30-20:00 Th, Hanson Hall 1-106, In Person Term Based; Meets With: 001 SOC 4102; Joachim Savelsberg ; 3 cr.

### 4111 Sociology of Deviance

(A-F or Audit; Prereq: Soc 3101 or 3102 recommended; Sociology majors/minors must register A-F)

65891 001 LEC, 13:00-14:15 TTh, Blegen Hall 317, In Person Term Based; Christopher Uggen ; 3 cr.

### 4133 Sociology of Gender, Sex, and Crime

(A-F or Audit; )

66437 001 LEC, 11:15-12:30 TTh, Blegen Hall 130, In Person Term Based; Gabrielle Ferrales ; 3 cr.

### 4147 Sociology of Mental Health & Illness

(A-F or Audit; Prereq: Soc 1001 recommended, Soc majors/minors must register A-F)

56055 001 LEC, 14:30-15:45 TTh, Blegen Hall 10, In Person Term Based; Jane VanHeuvelen ; 3 cr.

### 4149 Sociology of Killing

(A-F or Audit; Prereq: jr, or sr, or grad student, or instr consent; soc majors/minors must register A-F)

65720 001 LEC, 17:30-20:00 W, Hanson Hall 1-106, In Person Term Based; Julie Barrows ; 3 cr.

### 4162 Criminal Procedure in American Society

(A-F or Audit; Prereq: Soc 3101 or 3102 recommended; soc majors/minors must register A-F)

55014 001 LEC, 14:30-17:00 W, Twin Cities Remote, Completely Online; Joel Samaha ; 3 cr.

### 4246 Sociology of Health and Illness

(A-F or Audit; Prereq: One sociology course recommended; soph or above; soc majors/minors must register A-F)

55926 001 LEC, 11:15-12:30 TTh, Blegen Hall 5, In Person Term Based; Jane VanHeuvelen ; 3 cr.

### 4521 Love, Sex, & Marriage

(A-F or Audit; Prereq: [1001 or instr consent], soc majors/minors must register A-F)

67742 001 LEC, 11:15-12:30 MW, Blegen Hall 317, In Person Term Based; Francis Lyimo ; 3 cr.

### 4881 Population Studies Research Practicum

(A-F or Audit; )

65712 001 LEC, 09:45-11:00 MW, Blegen Hall 215, In Person Term Based; Claire Kamp Dush ; 3 cr.

### 4966W Capstone Experience: Seminar

(A-F only; Prereq: 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consentWI)

52724 001 LEC, 13:00-14:15 MW, Blegen Hall 415, In Person Term Based; Michael Goldman ; 3 cr.

54892 002 LEC, 16:00-17:15 TTh, Blegen Hall 155, In Person Term Based; Carolyn Liebler ; 3 cr.

65701 003 LEC, 11:15-12:30 TTh, Blegen Hall 415, In Person Term Based; Joseph Gerteis ; 3 cr.

### 4978V Honors Capstone Experience: Proseminar II

(A-F only; Prereq: 1001/1011V, 3701, 3801, 3811, 4977V, and at least 12 upper-division SOC credits; Sociology honors major & department consentWI)

52726 001 LEC, 14:30-17:00 W, Hubert H. Humphrey School 60, In Person Term Based; Yanjie Bian ; 3 cr.

## Software Engineering (SENG)

### 5115 Graphical User Interface Design, Evaluation, and Implementation

(A-F or Audit; Prereq: Grad SEng major)

59804 001 LEC, 08:00-09:50 FSa, Keller Hall 3-111, In Person Term Based; John Kruse, Devi Vijayakumar ; 2 cr.

### 5133 Cloud Computing - Leading Technical Change

(A-F only; )

69388 001 DIS, 10:00-12:45 FSa, Keller Hall 3-111, In Person Term Based; Nathaniel Schutta ; 3 cr.

### 5709 Big Data Engineering and Analytics

(A-F or Audit; )

61485 001 LEC, 14:00-16:45 FSa, Keller Hall 3-111, In Person Term Based; Meets With: 001 CSCI 5751; Chad Dvoracek ; 3 cr.

### 5802 Software Engineering II: Software Design

(A-F or Audit; Prereq: Grad SEng major)

59562 001 LEC, 11:00-14:45 FSa, Keller Hall 3-111, In Person Term Based; Kevin Wendt ; 3 cr.

### 5811 Software Testing and Verification

(A-F or Audit; Prereq: 5801, grad SEng major)

59563 001 LEC, 08:00-10:45 FSa, Keller Hall 3-111, In Person Term Based; Sanjai Rayadurgam ; 3 cr.

### 5852 Quality Assurance and Process Improvement

(A-F or Audit; Prereq: Grad SEng major)

59708 001 LEC, 15:00-16:50 FSa, Keller Hall 3-111, In Person Term Based; Megan Graham ; 2 cr.

### 5900 Directed Study

(Student Option; )

59843 001 LEC, In Person Term Based; 1-3 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)

56720 001 LEC, 09:35-10:25 MWF, Borlaug Hall 335, In Person Term Based; Nicolas Jelinski ; 4 cr.

56903 004 DIS, 10:40-11:30 Th, Plant Growth Facility 174, In Person Term Based; Nicolas Jelinski ; 4 cr.

57064 002 LAB, 00:00-00:00 , , In Person Term Based; Nicolas Jelinski ; 4 cr.

57065 003 DIS, 09:35-10:25 Th, Plant Growth Facility 174, In Person Term Based; Nicolas Jelinski ; 4 cr.  
 57066 005 DIS, 11:45-12:35 Th, Plant Growth Facility 174, In Person Term Based; Nicolas Jelinski ; 4 cr.  
 57067 006 DIS, 15:00-15:50 Th, Plant Growth Facility 174, In Person Term Based; Nicolas Jelinski ; 4 cr.  
 57215 007 DIS, 16:05-16:55 Th, Plant Growth Facility 174, In Person Term Based; Nicolas Jelinski ; 4 cr.  
 68496 008 DIS, Online & Distance Lrng (ODL); Nicolas Jelinski, Mark Felice ; 4 cr.

### 2601 The Social Life of Soil (Student Option; ENV)

57465 001 LEC, Completely Online; Grace Wilson ; 3 cr.

### 3416 Plant Nutrients in the Environment (Student Option; Prereq: SOIL 2125)

57034 001 DIS, 11:45-13:40 MW, Plant Growth Facility 140A/B, In Person Term Based; Yuxin Miao, Carl Rosen ; 3 cr.

### 3521 Soil Judging

(A-F or Audit; Prereq: An introductory soils course and field studies course.)

57214 001 FWK, In Person Term Based; Nicolas Jelinski ; 1 cr.

### 3993 Directed Study

(Student Option; Prereq: Department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements)

56770 001 IND, 00:00-00:00 , , In Person Term Based; Carl Rosen ; 1-4 cr.

57471 002 IND, In Person Term Based; Nicolas Jelinski ; 1-4 cr.

57484 003 IND, In Person Term Based; Kyungsoo Yoo ; 1-4 cr.

57487 004 IND, In Person Term Based; Jay Bell ; 1-4 cr.

### 3994 Directed Research

(Student Option; Prereq: Department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements.)

56771 001 IND, 00:00-00:00 , , In Person Term Based; Carl Rosen ; 1-4 cr.

### 5125 Soil Science for Teachers and Professionals (Student Option; )

57211 001 LEC, In Person Term Based; Nicolas Jelinski ; 4 cr.

57212 002 LAB, In Person Term Based; Nicolas Jelinski ; 4 cr.

57213 003 DIS, In Person Term Based; Nicolas Jelinski ; 4 cr.

### 5993 Directed Study

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements.)

57439 002 IND, In Person Term Based; Jay Bell, Patrick Nunnally ; 1-4 cr.

57448 001 IND, In Person Term Based; Carl Rosen ; 1-4 cr.

57449 003 IND, In Person Term Based; Kyungsoo Yoo ; 1-4 cr.

## Somali (SMLI)

### 1222 Beginning Somali II

(A-F only; Prereq: 1221)

54336 001 LEC, 17:30-20:00 MW, Blegen Hall 210, In Person Term Based; Said Ahmed ; 5 cr.

### 1226 Accelerated Beginning Somali II

(A-F only; Prereq: 1225 or instr consent)

54268 001 LEC, 17:30-20:00 TTh, Blegen Hall 105, In Person Term Based; Said Ahmed ; 5 cr.

68786 002 LEC, 14:00-16:30 TTh, Blegen Hall 425, In Person Term Based; Said Ahmed ; 5 cr.

### 3228 Intermediate Somali II

(Student Option; )

55224 001 LEC, 14:00-16:30 MW, Blegen Hall 425, In Person Term Based; Said Ahmed ; 5 cr.

## Spanish (SPAN)

### 1001 Beginning Spanish

(Student Option No Audit; Prereq: Less than 2 yrs of high school Spanish and/or three or more years away from Spanish language study; and dept consent)

66495 001 DIS, 10:10-11:00 MTWTh, Folwell Hall 106, Partially Online; Stephanie Anderson ; 5 cr.

### 1002 Beginning Spanish

(Student Option No Audit; Prereq: A grade of C- or better in SPAN 1001 completed at UMNTC, and dept consent)

65323 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 122, Partially Online; Meets With: 001 SPAN 4002; Cecily Brown ; 5 cr.

65324 002 DIS, 11:15-12:05 MTWThF, Folwell Hall 5, Partially Online; Meets With: 002 SPAN 4002; Cecily Brown ; 5 cr.

65325 003 DIS, 13:25-14:15 MTWThF, Folwell Hall 120, Partially Online; Meets With: 003 SPAN 4002; Cecily Brown ; 5 cr.

65326 004 DIS, 15:35-17:30 MW, Folwell Hall 104, Partially Online; Meets With: 004 SPAN 4002; Elizabeth Lake ; 5 cr.

65327 005 DIS, 15:35-17:30 MW, Folwell Hall 104, Partially Online; Meets With: 004 SPAN 4002; Elizabeth Lake ; 5 cr.

### 1003 Intermediate Spanish

(Student Option No Audit; Prereq: A grade of C- or better in SPAN 1002 or SPAN 1022 or EPT placement of SPAN 1003)

52904 003 LEC, 09:05-09:55 MTWTh, Folwell Hall 18, Partially Online; Meets With: 003 SPAN 4003; Mary Pogatschnik ; 5 cr.

52905 004 LEC, 09:05-09:55 MTWTh, Twin Cities Remote, Completely Online; Vivian Hirlandy Franco Diaz ; 5 cr.

52906 005 LEC, 10:10-11:00 MTWTh, Folwell Hall 12, Partially Online; Mary Pogatschnik ; 5 cr.

52907 006 LEC, 10:10-11:00 MTWTh, Folwell Hall 120, Partially Online; Sara Finney ; 5 cr.

52908 007 LEC, 11:15-12:05 MTWTh, Folwell Hall 120, Partially Online; Sara Finney ; 5 cr.

52909 008 LEC, 11:15-12:05 MTWTh, Folwell Hall 18, Partially Online; Meets With: 008 SPAN 4003; Anna Cox ; 5 cr.

52910 010 LEC, 12:20-13:10 MTWTh, Folwell Hall 105, Partially Online; Andrew Wiesinger ; 5 cr.

52911 011 LEC, 13:25-14:15 MTWTh, Folwell Hall 12, Partially Online; Kristin Beamish-Brown ; 5 cr.

52913 013 LEC, 14:30-15:20 MTWTh, Folwell Hall 121, Partially Online; Kristin Beamish-Brown ; 5 cr.

52914 014 LEC, 14:30-15:20 MTWTh, Folwell Hall 6, Partially Online; Andrew Wiesinger ; 5 cr.

53598 001 LEC, 08:00-08:50 MTWTh, Folwell Hall 106, Partially Online; Mary Pogatschnik ; 5 cr.

54944 016 LEC, 16:40-17:30 MTWTh, Folwell Hall 18, Partially Online; Andrew Wiesinger ; 5 cr.

66496 009 DIS, 12:20-13:10 MTWTh, Folwell Hall 123, Partially Online; Kristin Beamish-Brown ; 5 cr.

66497 017 DIS, 18:00-19:55 MW, Twin Cities Remote, Completely Online; Catalina Ahumada Escobar ; 5 cr.

66498 018 DIS, 18:00-19:55 MW, Twin Cities Remote, Completely Online; Catalina Ahumada Escobar ; 5 cr.

### 1004 Intermediate Spanish

(Student Option No Audit; Prereq: A Grade of C- or better in SPAN 1003 or EPT placement of SPAN 1004)

52916 001 LEC, 08:00-08:50 MTWTh, Folwell Hall 104, Partially Online; Adriana Sanchez-Vargas ; 5 cr.

52917 002 LEC, 08:00-08:50 MTWTh, Folwell Hall 18, Partially Online; Raegeom Lee ; 5 cr.

52918 004 LEC, 09:05-09:55 MTWTh, Folwell Hall 5, Partially Online; Leiry Warren ; 5 cr.

52919 005 LEC, 09:05-09:55 MTWTh, Folwell Hall 4, Partially Online; Adriana Sanchez-Vargas ; 5 cr.

52920 006 LEC, 10:10-11:00 MTWTh, Folwell Hall 5, Partially Online; Adriana Sanchez-Vargas ; 5 cr.

52921 007 LEC, 10:10-11:00 MTWTh, Folwell Hall 116, Partially Online; Sara Mack ; 5 cr.

52922 008 LEC, 10:10-11:00 MTWTh, Twin Cities Remote, Completely Online; Vanessa Santana ; 5 cr.

52923 009 LEC, 11:15-12:05 MTWTh, Folwell Hall 106, Partially Online; Sara Mack ; 5 cr.

52924 010 LEC, 11:15-12:05 MTWTh, Folwell Hall 32, Partially Online; Meets With: 010 SPAN 4004; Joy Collman ; 5 cr.

52925 011 LEC, 12:20-13:10 MTWTh, Folwell Hall 104, Partially Online; Joy Collman ; 5 cr.

52926 012 LEC, 12:20-13:10 MTWTh, Folwell Hall 18, Partially Online; Marisol Galicia Estevez ; 5 cr.

52927 013 LEC, 13:25-14:15 MTWTh, Peik Hall 225, Partially Online; Edward Eiffler ; 5 cr.

52928 014 LEC, 13:25-14:15 MTWTh, Folwell Hall 103, Partially Online; Marisol Galicia Estevez ; 5 cr.

52929 015 LEC, 14:30-15:20 MTWTh, Folwell Hall 106, Partially Online; Edward Eiffler ; 5 cr.

52930 016 LEC, 14:30-15:20 MTWTh, Folwell Hall 105, Partially Online; Elsa Maxwell ; 5 cr.

52931 017 LEC, 15:35-16:25 MTWTh, Folwell Hall 18, Partially Online; Edward Eiffler ; 5 cr.

52932 018 LEC, 15:35-16:25 MTWTh, Folwell Hall 16, Partially Online; Elsa Maxwell ; 5 cr.

53547 019 LEC, 18:00-19:55 TTh, Twin Cities Remote, Completely Online; Guiomar Fages ; 5 cr.

### 1022 Alternate Second-Semester Spanish

(Student Option No Audit; Prereq: Placement above 1001 (Span 1022 is designed for students who have

had two or more years of high school Spanish, or one semester of college Spanish.)

53034 003 LEC, 09:05-09:55 MTWTh, Folwell Hall 30, Partially Online; Thiago Santana ; 5 cr.

53036 006 LEC, 10:10-11:00 MTWTh, Folwell Hall 6, Partially Online; Cristina Castro ; 5 cr.

53288 005 LEC, 10:10-11:00 MTWTh, Folwell Hall 28, Partially Online; Julia Lujan ; 5 cr.

53289 007 LEC, 11:15-12:05 MTWTh, Folwell Hall 123, Partially Online; Meets With: 007 SPAN 4002; Julia Lujan ; 5 cr.

53373 010 LEC, 12:20-13:10 MTWTh, Folwell Hall 16, Partially Online; Cristina Castro ; 5 cr.

53374 011 LEC, 13:25-14:15 MTWTh, Folwell Hall 116, Partially Online; Elizabeth Lake ; 5 cr.

53376 012 LEC, 13:25-14:15 MTWTh, Folwell Hall 8, Partially Online; 5 cr.

53420 013 LEC, 14:30-15:20 MTWTh, Folwell Hall 104, Partially Online; Elizabeth Lake ; 5 cr.

66499 001 LEC, 08:00-08:50 MTWTh, Folwell Hall 122, Partially Online; Carlos Villanueva ; 5 cr.

66501 014 LEC, 15:35-16:25 MTWTh, Folwell Hall 123, Partially Online; ; 5 cr.

68782 016 LEC, 11:15-12:05 MTWTh, Twin Cities Remote, Completely Online; Vanessa Santana ; 5 cr.

68783 017 LEC, 11:15-12:05 MTWTh, Twin Cities Remote, Completely Online; Vanessa Santana ; 5 cr.

### 1044 Intermediate Medical Spanish

(Student Option; Prereq: 1003 or equiv)

53839 001 LEC, 10:10-12:05 TTh, Folwell Hall 108, In Person Term Based; Gustavo Vargas ; 5 cr.

### 3011W Spanish Grammar and Composition Workshop

(Student Option; Prereq: [1004 or 1014 or 1044], LPE passwI)

53029 001 LEC, 10:10-12:05 TTh, Nicholson Hall 355, In Person Term Based; Marisol Galicia Estevez ; 4 cr.

### 3015W Spanish Composition and Communication

(Student Option; Prereq: SPAN LPE passwI)

53024 001 LEC, 08:00-09:55 MW, Folwell Hall 32, In Person Term Based; Cristina Castro ; 4 cr.

53026 004 LEC, 10:10-12:05 TTh, Amundson Hall 104, In Person Term Based; Michael Arnold ; 4 cr.

53027 006 LEC, 12:20-14:15 MW, Amundson Hall 162, In Person Term Based; Stewart James-Lej?rcegui ; 4 cr.

53028 007 LEC, 12:20-14:15 TTh, Elliott Hall N647, In Person Term Based; Michael Arnold ; 4 cr.

53175 008 LEC, 14:30-16:25 MW, Folwell Hall 116, In Person Term Based; Sabrina Fluegel ; 4 cr.

53682 005 LEC, 10:10-12:05 MW, Bruiniks Hall 420A, In Person Term Based; Stewart James-Lej?rcegui ; 4 cr.

### 3022 Advanced Business Spanish

(Student Option; Prereq: A C- or better in SPAN 3015W or SPAN 3015V or SPAN 3019W or TLDO 3231 or ECDD 3015W or ARGN 3015W)

53290 001 LEC, 12:20-14:15 MW, Folwell Hall 4, In Person Term Based; Anne Hoffman-Gonzalez ; 4 cr.

### 3044 Advanced Medical Spanish

(Student Option; Prereq: a grade of C- or better in SPAN 3015W or 3015V )

53642 001 LEC, 12:20-14:15 TTh, Folwell Hall 4, In Person Term Based; Gustavo Vargas ; 4 cr.

### 3104W Introduction to the Study of

#### Hispanic Literatures

(Student Option; Prereq: a grade of C- or better in SPAN 3015W or 3015V or 3019WLITR,WI)

52695 001 LEC, 09:45-11:00 TTh, Nicholson Hall 345, In Person Term Based; Begona Orive-Abad ; 3 cr.

52696 002 LEC, 13:00-14:15 MW, Peik Hall 315, In Person Term Based; Begona Orive-Abad ; 3 cr.

53179 004 LEC, 14:30-15:45 TTh, Folwell Hall 32, In Person Term Based; Begona Orive-Abad ; 3 cr.

### 3105W Introduction to the Study of

#### Hispanic Cultures

(Student Option; Prereq: a grade of C- or better in SPAN 3015W or 3015V or 3019WWWI)

52799 002 LEC, 11:15-12:30 MW, Kolthoff Hall 133, In Person Term Based; Erma Nezevrevic ; 3 cr.

52800 003 LEC, 13:00-14:15 MW, Kolthoff Hall 133, In Person Term Based; Anna Cox ; 3 cr.

52801 001 LEC, 08:15-09:30 MW, Folwell Hall 31, In Person Term Based; Eva Palma Zuniga ; 3 cr.

54011 005 LEC, 09:45-11:00 TTh, Kolthoff Hall 133, In Person Term Based; Guiomar Fages ; 3 cr.

54824 006 LEC, 13:00-14:15 TTh, Kolthoff Hall 133, In Person Term Based; Guiomar Fages ; 3 cr.

54825 007 LEC, 14:30-15:45 TTh, Folwell Hall 8, In Person Term Based; Eva Palma Zuniga ; 3 cr.

**3107W Introduction to the Study of Hispanic Linguistics**

(Student Option; Prereq: a grade of C- or better in SPAN 3015W or 3015V or 3019WVI)  
 52699 003 LEC, 14:30-15:45 MW, Folwell Hall 5, In Person Term Based; Anne Hoffman-Gonzalez ; 3 cr.  
 53177 004 LEC, 09:45-11:00 MW, Folwell Hall 123, In Person Term Based; Anne Hoffman-Gonzalez ; 3 cr.  
 56053 005 LEC, 13:00-14:15 TTh, Folwell Hall 112, In Person Term Based; Yoko Hama ; 3 cr.

**3222 Interpreting Modern and Contemporary Latin America**

(Student Option; Prereq: A C- or better in SPAN 3104W or SPAN 3104V or TLDO 3104W or ARGN 3104W or SPAN 3105W or TLDO 3105W or SPAN 3105V)  
 55499 001 LEC, 13:00-14:15 TTh, Pillsbury Hall 214, In Person Term Based; Emma Jasnoch ; 3 cr.  
 55500 002 LEC, 13:00-14:15 TTh, Kolthoff Hall 132, In Person Term Based; Eva Palma Zuniga ; 3 cr.

**3401 Latino Immigration and Community Engagement**

(Student Option; Prerequisite: ARGN 3015W or ECDR 3015W or SPAN 3015 or SPAN 3015W or SPAN 3015V or TLDO 3231 or VENZ 3015CIV)  
 54330 001 LEC, 12:20-14:50 M, Peik Hall 215, In Person Term Based; Kathleen Ganley ; 3 cr.  
 54331 002 LEC, 13:25-15:55 T, Peik Hall 315, In Person Term Based; Kathleen Ganley ; 3 cr.

**3403 Latino Immigration on US/Mexican Border**

(Student Option; CIV)  
 67802 001 DIS, In Person Term Based; Kathleen Ganley ; 3 cr.

**3404 Medical Spanish and Community Health Learning**

(Student Option No Audit; Prereq: SPAN 3015W with grade of at least C- or better and instructor permission. Recommended one additional upper division Spanish class.)  
 53840 001 LEC, 12:20-14:50 W, Mechanical Engineering 321, In Person Term Based; Gustavo Vargas ; 3 cr.

**3510 Issues in Hispanic Cultures**

(Student Option; Prereq: A grade of C- or better in Span 3104W or Span 3105W or Tldo 3104 or Tldo 3105 or Venz 3104 or Venz 3512 or Argn 3104W or Span 3104v or Span 3105v)  
 68191 001 LEC, 09:45-11:00 TTh, Folwell Hall 8, In Person Term Based; Jose Aguirre ; 3 cr.

**3512 Modern Latin America**

(Student Option; Prereq: A C- or better in SPAN 3104W or SPAN 3104V or TLDO 3104W or ARGN 3104W or SPAN 3105W or TLDO 3105W or SPAN 3105V)  
 53807 001 LEC, 13:00-14:15 MW, Folwell Hall 122, In Person Term Based; Luis Ramos-Garcia ; 3 cr.  
 55498 002 LEC, 16:00-17:15 TTh, Folwell Hall 8, In Person Term Based; Jaime Hanneken ; 3 cr.  
 69658 003 LEC, 14:30-15:45 MW, Folwell Hall 30, In Person Term Based; Guillermo Fajardo Sotelo ; 3 cr.

**3702 Structure of Spanish: Morphology and Syntax**

(Student Option; Prereq: A C- or better in SPAN 3107W or TLDO 3107W)  
 54251 001 LEC, 11:15-12:30 MW, Folwell Hall 108, In Person Term Based; James Ramsburg ; 3 cr.

**3708 Spanish in the United States**

(Student Option; Prereq: A C- or better in SPAN 3107W or TLDO 3107W)  
 55534 001 LEC, 14:30-15:45 MW, Folwell Hall 3, In Person Term Based; Carol Klee ; 3 cr.

**3800 Film Studies in Spanish**

(A-F only; Prereq: Span 3104W or Span 3105W or Tldo 3104 or Tldo 3105 or Venz 3104 or Venz 3512 or Argn 3104W or Span 3104v or Span 3105v)  
 68193 001 LEC, 14:30-15:45 TTh, Wulling Hall 240, In Person Term Based; Ofelia Ferran ; 3 cr.

**3910 Topics in Spanish Peninsular Literature**

(A-F or Audit; Prereq: SPAN 3104W or SPAN 3104V or TLDO 3104W or ARGN 3104W or SPAN 3105W or TLDO 3105W or SPAN 3105V or VENZ 3512 or instr consent)  
 68194 001 LEC, 11:15-12:30 TTh, Folwell Hall 6, In Person Term Based; Ofelia Ferran ; 3 cr.

**3920 Topics in Spanish-American Literature**

(A-F or Audit; Prereq: SPAN 3104W or TLDO 3104 or VENZ 3104 or ARGN 3104W or SPAN 3105W or TLDO 3105 or VENZ 3512 or instructor consent)  
 68418 001 LEC, 09:45-11:00 MW, Folwell Hall 8, In Person Term Based; Javier Zapata Claveria ; 3 cr.

**3972W Graduation Seminar**

(A-F only; Prereq: Spanish Studies Major (for those who declared before Fall 2018): C- or better in SPAN 3015w, 3104w, 3105w, 3107w and 3 SPAN electives with a critical analysis prerequisite. Spanish Studies major (for those who declare Fall 2018 and after): C- or better in Span 3015w, 2 Span 31xx courses, and 4 electives with a Critical Analysis prerequisite. Spanish/Portuguese Studies Majors: C- or better in SPAN 3015w, PORT 3003, SPAN 3104w, 3107w, 1 PORT 35xx class, 2 upper level SPAN or PORT electives.WI)  
 52690 001 LEC, 11:15-12:30 TTh, Folwell Hall 119, In Person Term Based; Timothy Face ; 3 cr.  
 53738 002 LEC, 11:15-12:30 MW, Folwell Hall 122, In Person Term Based; Luis Ramos-Garcia ; 3 cr.

**4002 Beginning Spanish for Graduate Student Research**

(Student Option No Audit; Prereqs: A Grade of C- or better in SPAN 1001/4001 completed at UMNTC and department consent)  
 53964 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 122, Partially Online; Meets With: 001 SPAN 1002; Cecily Brown ; 5 cr.  
 55337 002 DIS, 11:15-12:05 MTWThF, Folwell Hall 5, Partially Online; Meets With: 002 SPAN 1002; Cecily Brown ; 5 cr.  
 55338 003 DIS, 13:25-14:15 MTWThF, Folwell Hall 120, Partially Online; Meets With: 003 SPAN 1002; Cecily Brown ; 5 cr.  
 55431 004 DIS, 15:35-17:30 MW, Folwell Hall 104, Partially Online; Meets With: 004 SPAN 1002; Elizabeth Lake ; 5 cr.

**4003 Intermediate Spanish for Graduate Student Research**

(Student Option No Audit; Prereq: A Grade of C- or better in SPAN 1002 or SPAN 4002 or SPAN 1022 or SPAN 4022 or EPT placement of SPAN 1003)  
 53963 003 DIS, 09:05-09:55 MTWTh, Folwell Hall 18, Partially Online; Meets With: 003 SPAN 1003; Mary Pogatschnik ; 5 cr.  
 55464 008 DIS, 11:15-12:05 MTWTh, Folwell Hall 18, Partially Online; Meets With: 008 SPAN 1003; Anna Cox ; 5 cr.

**4004 Intermediate Spanish for Graduate Student Research**

(Student Option No Audit; )  
 54306 010 DIS, 11:15-12:05 MTWTh, Folwell Hall 32, Partially Online; Meets With: 010 SPAN 1004; Joy Colman ; 5 cr.

**4022 Alternate Second-Semester Spanish for Graduate Student Research**

(Student Option No Audit; )  
 54295 007 DIS, 11:15-12:05 MTWTh, Folwell Hall 123, Partially Online; Meets With: 007 SPAN 1022; Julia Lujan ; 5 cr.

**5180 Don Quixote**

(Student Option; Prereq: Grad student or instr consent)  
 67799 001 LEC, 14:30-17:30 M, Twin Cities Remote, Completely Online; Nicholas Spadaccini ; 3 cr.

**5550 Caribbean Literature: An Integral Approach**

(Student Option; Prereq: Grad student or instr consent)  
 67800 001 LEC, 14:30-15:45 TTh, Appleby Hall 204, In Person Term Based; Jaime Hanneken ; 3 cr.

**5930 Topics in Ibero-Romance Linguistics**

(Student Option; )  
 68701 001 LEC, 13:00-14:15 TTh, Folwell Hall 119, In Person Term Based; Timothy Face ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq: Grad student or instr consent.)  
 53479 002 IND, 00:00-00:00 , In Person Term Based; Jaime Hanneken ; 1-4 cr.  
 54705 003 IND, In Person Term Based; Ofelia Ferran ; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq: Grad student or instr consent)  
 53585 001 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.

53599 002 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.

**Speech-Language-Hearing Sci (SLHS)****1301V Physics and Biology of the Voice Honors**

(A-F or Audit; PHYS,WI)  
 54530 001 LEC, 15:00-16:15 TTh, Shevlin Hall 110, In Person Term Based; Meets With: 001 SLHS 1301W; Matthew Winn ; 4 cr.  
 54702 002 LAB, 09:45-11:15 M, Twin Cities Remote, Completely Online; Meets With: 002 SLHS 1301W; Matthew Winn ; 4 cr.

**1301W Physics and Biology of the Voice**

(Student Option; PHYS,WI)  
 52477 001 LEC, 15:00-16:15 TTh, Shevlin Hall 110, In Person Term Based; Meets With: 001 SLHS 1301V; Matthew Winn ; 4 cr.  
 52478 002 LAB, 09:45-11:15 M, Twin Cities Remote, Completely Online; Meets With: 002 SLHS 1301V; Matthew Winn ; 4 cr.  
 52479 003 LAB, 08:15-09:45 T, Twin Cities Remote, Completely Online; Matthew Winn ; 4 cr.  
 52480 004 LAB, 11:15-12:45 W, Twin Cities Remote, Completely Online; Matthew Winn ; 4 cr.

**1302 Rate Your World: Quantifying Judgments of Human Behavior**

(Student Option; MATH)  
 53698 001 LEC, 10:10-11:00 TTh, Shevlin Hall 110, In Person Term Based; Yang Zhang ; 3 cr.  
 53929 003 DIS, 08:00-08:50 Th, Twin Cities Remote, Completely Online; Yang Zhang ; 3 cr.

**1401 Introduction to Speech-Language Pathology & Audiology**

(Student Option; SOCS)  
 52481 001 LEC, 11:15-12:30 TTh, Shevlin Hall 110, In Person Term Based; Meets With: 001 SLHS 3401; Jayanthi Sasisekaran ; 3 cr.

**1402 The Talking Brain**

(Student Option; SOCS)  
 53618 001 LEC, 14:30-15:45 TTh, Shevlin Hall 20, In Person Term Based; Natalie Covington ; 3 cr.

**1915 Health Care through Zoom: How Telepractice has Changed Allied Healthcare.**

(A-F only; )  
 68374 001 DIS, 14:30-15:45 MW, Shevlin Hall 20, In Person Term Based; Peter Watson ; 3 cr.

**3303 Language Acquisition and Science**

(Student Option; )  
 54272 001 LEC, 13:00-14:15 TTh, Shevlin Hall 20, In Person Term Based; Olivia Matthys ; 3 cr.

**3304 Phonetics**

(Student Option; )  
 54267 001 LEC, 09:45-11:00 TTh, Nicholson Hall 35, In Person Term Based; Benjamin Munson, Greta Dembroski ; 3 cr.

**3306 The Sense of Hearing**

(Student Option; Prereq: [3302, 3305W] or instr consent)  
 52513 001 LEC, 09:45-11:00 MW, Shevlin Hall 110, In Person Term Based; Robert Schlauch ; 3 cr.

**3401 Introduction to Speech-Language Pathology & Audiology**

(Student Option; SOCS)  
 53355 001 LEC, 11:15-12:30 TTh, Shevlin Hall 110, In Person Term Based; Meets With: 001 SLHS 1401; Jayanthi Sasisekaran ; 3 cr.

**3402V Capstone Project in Speech-Language-Hearing Sciences Honors**

(A-F only; WI)  
 54608 001 LEC, 13:00-14:15 MW, Shevlin Hall 20, In Person Term Based; Meets With: 001 SLHS 3402W; Jayanthi Sasisekaran ; 3 cr.

**3402W Capstone Project in Speech-Language-Hearing Sciences**

(S-N or Audit; WI)

54265 001 LEC, 13:00-14:15 MW, Shevlin Hall 20, In Person Term Based; Meets With: 001 SLHS 3402V; Jayanthi Sasisekaran ; 3 cr.

### 3994 Directed Research

(Student Option; Prereq: Undergrad doing research)  
53925 001 IND, 00:00-00:00 , , In Person Term Based; ; 1-12 cr.  
53926 002 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
53927 003 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
54197 004 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
54198 005 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
54199 006 IND, 00:00-00:00 , , In Person Term Based; Benjamin Munson ; 1-12 cr.  
54200 007 IND, 00:00-00:00 , , In Person Term Based; Peggy Nelson ; 1-12 cr.  
54201 008 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
54202 009 IND, 00:00-00:00 , , In Person Term Based; ; 1-12 cr.  
54203 010 IND, 00:00-00:00 , , In Person Term Based; Jayanthi Sasisekaran ; 1-12 cr.  
54204 011 IND, 00:00-00:00 , , In Person Term Based; Robert Schlauch ; 1-12 cr.  
54205 012 IND, 00:00-00:00 , , In Person Term Based; Peter Watson ; 1-12 cr.  
54206 013 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
54207 014 IND, 00:00-00:00 , , In Person Term Based; Yang Zhang ; 1-12 cr.  
54292 015 IND, 00:00-00:00 , , In Person Term Based; ; 1-12 cr.  
54293 016 IND, 00:00-00:00 , , In Person Term Based; Lizbeth Finestack ; 1-12 cr.

### 4802 Rehabilitative Audiology

(Student Option; )  
54337 001 LEC, 11:15-12:30 TTh, Shevlin Hall 20, In Person Term Based; Evelyn Davies-Venn ; 3 cr.

### 5502 Voice and Cleft Palate

(Student Option; Prereq: [3305, 4301] or [CDIs 3305, CDIs 4301] or instr consent)  
54264 001 LEC, 09:00-10:15 MW, Shevlin Hall 20, 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)  
53687 001 LEC, 08:00-10:30 Th, Shevlin Hall 20, In Person Term Based; 3 cr.

### 5606 Introduction to Augmentative and Alternative Communication

(Student Option; )  
53711 001 LEC, 17:30-18:45 W, Shevlin Hall 110, In Person Term Based; Kate Nilson ; 3 cr.

### 5609 Child Language Disorders in Diverse Populations

(Student Option; )  
55083 001 DIS, 09:00-11:30 F, Shevlin Hall 110, In Person Term Based; Kerry Ebert ; 3 cr.

### 5805 Advanced Rehabilitative Audiology

(A-F only; )  
56304 001 LEC, 09:00-12:00 M, Bruininks Hall 512A, In Person Term Based; Kerry Witherell ; 3 cr.

### 5810 Laboratory Module in Audiology

(A-F only; Prereq: [4801 or CDIS 4801, SLHS grad] or instr consent)  
52482 001 LAB, 13:00-14:30 Th, Shevlin Hall 120, In Person Term Based; Kerry Witherell ; 1-2 cr.  
54980 002 LAB, 14:30-16:00 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)  
53699 001 DIS, 10:00-11:30 F, Shevlin Hall 20, In Person Term Based; Kerry Witherell ; 1-6 cr.

### 5830 Clinical Foundations in Audiology

(S-N or Audit; Prereq: Grad SLHS major)  
54994 001 FWK, 00:00-00:00 , , In Person Term Based; ; 1-8 cr.

### 5993 Directed Study

(Student Option; Prereq: SLHS grad or instr consent)  
54294 017 IND, 00:00-00:00 , , In Person Term Based; Lizbeth Finestack ; 1-12 cr.

## Sport Management (SMGT)

### 1701 Introduction to Sport Management

(A-F or Audit; )  
51290 001 LEC, 09:45-11:00 TTh, Nicholson Hall 275, In Person Term Based; Kevin King ; 2 cr.

### 3111 Sports Facility and Event Management

(A-F only; Prereq: SMGT major or SMGT minor or CEHD IDP or instructor consent and 45 credits completed or in progress.)  
51546 001 LEC, 09:45-11:00 MW, Civil Engineering Bldg 212, In Person Term Based; Jazmin Danielson ; 3 cr.  
51946 002 LEC, 08:15-09:30 MW, Cooke Hall 214, In Person Term Based; Cody Mikl ; 3 cr.

### 3143 Organization and Management of Sport

(A-F only; Prereq: SMGT major or SMGT minor or CEHD IDP or instructor consent, and 45 credits completed or in progress.)  
51573 001 LEC, 13:00-14:15 MW, Cooke Hall 214, In Person Term Based; Kevin King ; 3 cr.  
52159 002 LEC, 09:45-11:00 MW, Armory Building 202, In Person Term Based; Landy Lu ; 3 cr.

### 3421 Business of Sport

(A-F or Audit; Prereq: SMGT or KIN or REC major or SMGT minor or CEHD IDP or instructor consent and 45 credits completed or in progress.)  
52073 002 LEC, 13:00-14:15 TTh, Nicholson Hall 35, In Person Term Based; Kevin King ; 3 cr.  
68390 001 LEC, 09:45-11:00 TTh, Akerman Hall 319, In Person Term Based; Michael Jonas ; 3 cr.

### 3501 Sport in a Diverse Society

(A-F only; DSJ,SOCs)  
51574 001 LEC, 11:15-12:30 TTh, Cooke Hall 206, In Person Term Based; Meets With: 001 SMGT 3501H; Vicki Schull ; 3 cr.  
51606 002 LEC, 08:15-09:30 TTh, Cooke Hall 206, In Person Term Based; Nicole LaVoi ; 3 cr.  
51940 005 LEC, 13:00-14:15 TTh, Cooke Hall 214, In Person Term Based; Vicki Schull ; 3 cr.  
51994 004 LEC, 08:15-09:30 MW, Cooke Hall 206, In Person Term Based; Leo Lewis ; 3 cr.

### 3501H Sport in a Diverse Society: Honors

(A-F only; Prereq: Honors studentDSJ,SOCs)  
52231 001 LEC, 11:15-12:30 TTh, Cooke Hall 206, In Person Term Based; Meets With: 001 SMGT 3501; Vicki Schull ; 3 cr.

### 3601 Ethics and Values in Sport

(A-F or Audit; Prereq: SMGT major and 60 credits completed or in progress.)  
51124 001 LEC, 12:35-14:15 W, Peik Gymnasium G55, In Person Term Based; Vicki Schull ; 2 cr.

### 3631 Sport Marketing

(A-F only; Prereq: SMGT Major or SMGT Minor, or instructor consent AND 45 credits completed or in progress.)  
52342 001 LEC, 11:15-12:30 TTh, Rapson Hall 45, In Person Term Based; Clinton Warren, PhD ; 3 cr.

### 3632 Sport Sales and Fund-raising

(A-F only; Prereq: Sport Management major or minor or instr consent)  
51665 001 LEC, 08:15-09:30 TTh, Cooke Hall 214, In Person Term Based; Clinton Warren, PhD ; 3 cr.

### 3861 Sport and Recreation Law

(A-F only; Prereq: SMGT major or REC major or SMGT minor or Health and Wellness Promotion minor and 60 credits completed or in progress.)  
51125 001 LEC, 16:00-17:15 TTh, Akerman Hall 209, In Person Term Based; Andrew Nelson ; 3 cr.

### 3881W Senior Seminar in Sport Management

(A-F or Audit; WI)  
51122 001 LEC, 14:30-17:00 M, Cooke Hall 215, In Person Term Based; Lisa Kihl ; 3 cr.  
51920 002 LEC, 16:40-19:10 M, Cooke Hall 214, In Person Term Based; Leila Riley ; 3 cr.

### 3993 Directed Study in Sport Management

(A-F only; )  
51695 011 IND, Independent/Directed Study; Vicki Schull ; 1-4 cr.  
51696 009 IND, 00:00-00:00 , , Independent/Directed Study; Lisa Kihl ; 1-4 cr.  
52366 013 IND, In Person Term Based; Clinton Warren, PhD ; 1-4 cr.

### 3996 Practicum: The Sport Experience

(S-N only; Prereq: 3881, SMGT major, instr consent)  
51123 001 FWK, 00:00-00:00 , , In Person Term Based; Kevin King ; 2-8 cr.

## Statistics (STAT)

### 1001 Introduction to the Ideas of Statistics

(Student Option; Prereq: Mathematics requirement for admission to UniversityMATH)  
52500 001 LEC, 10:10-11:00 MWF, Keller Hall 3-115, In Person Term Based; Georgia(Zhuozhi) Huang ; 4 cr.  
53551 003 LAB, 10:10-11:00 T, Bruininks Hall 131A, In Person Term Based; 4 cr.

### 3011 Introduction to Statistical Analysis

(Student Option; MATH)  
52501 001 LEC, 11:15-12:05 MWF, Anderson Hall 350, 17:00-19:00 Th, Room TBA, 17:00-19:00 Th, Room TBA, In Person Term Based; Yuyoung Park ; 4 cr.  
52502 002 LAB, 08:00-08:50 T, Ford Hall 127, In Person Term Based; 4 cr.  
52503 003 LAB, 09:05-09:55 T, Akerman Hall 317, In Person Term Based; 4 cr.  
52504 004 LAB, 10:10-11:00 T, Blegen Hall 330, In Person Term Based; 4 cr.  
52505 005 LAB, 11:15-12:05 T, Ford Hall 110, In Person Term Based; 4 cr.  
52506 006 LEC, 08:00-08:50 MWF, Vincent Hall 16, 17:00-19:00 Th, Room TBA, 17:00-19:00 Th, Room TBA, In Person Term Based; 4 cr.  
52507 007 LAB, 10:10-11:00 T, Blegen Hall 415, In Person Term Based; 4 cr.  
52508 008 LAB, 08:00-08:50 T, Akerman Hall 313, In Person Term Based; 4 cr.  
53092 009 LAB, 09:05-09:55 T, Akerman Hall 215, In Person Term Based; 4 cr.  
53093 010 LAB, 12:20-13:10 T, Burton Hall 123, In Person Term Based; 4 cr.  
53094 011 LEC, 12:20-13:10 MWF, Vincent Hall 16, 17:00-19:00 Th, Room TBA, 17:00-19:00 Th, Room TBA, In Person Term Based; 4 cr.  
53095 012 LAB, 14:30-15:20 T, Cooke Hall 214, In Person Term Based; 4 cr.  
55238 013 LAB, 13:25-14:15 T, Armory Building 116, In Person Term Based; 4 cr.  
55239 014 LAB, 11:15-12:05 T, Molecular Cellular Biol 2-122, In Person Term Based; 4 cr.  
55240 015 LAB, 15:35-16:25 T, Pillsbury Hall 314, In Person Term Based; 4 cr.  
55241 016 LEC, 10:10-11:00 MWF, Vincent Hall 16, 17:00-17:00 Th, Room TBA, 17:00-19:00 Th, Room TBA, In Person Term Based; 4 cr.  
55242 017 LAB, 10:10-11:00 T, Blegen Hall 260, In Person Term Based; 4 cr.  
55243 018 LAB, 09:05-09:55 T, Akerman Hall 313, In Person Term Based; 4 cr.  
66713 019 LAB, 11:15-12:05 T, Molecular Cellular Biol 2-120, In Person Term Based; 4 cr.  
66714 020 LAB, 12:20-13:10 T, Bruininks Hall 512B, In Person Term Based; 4 cr.

### 3021 Introduction to Probability and Statistics

(Student Option; Prereq: Math 1272)  
66134 001 LEC, 11:15-12:05 MWF, Anderson Hall 250, In Person Term Based; 3 cr.  
66135 002 LEC, 09:05-09:55 MWF, Anderson Hall 350, In Person Term Based; 3 cr.  
66136 003 LEC, 10:10-11:00 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Fikri Goksu ; 3 cr.  
66717 004 LEC, 12:20-13:10 MWF, Anderson Hall 350, In Person Term Based; Yuyoung Park ; 3 cr.  
66718 005 LEC, 13:25-14:15 MWF, Anderson Hall 350, In Person Term Based; Yuyoung Park ; 3 cr.

### 3022 Data Analysis

(Student Option; Prereq: 3011 or 3021 or SOC 3811)  
52509 001 LEC, 10:10-11:00 MWF, Blegen Hall 250, In Person Term Based; Kazeem Adepoju ; 4 cr.  
52510 002 LAB, 10:10-11:00 T, Bruininks Hall 432, In Person Term Based; 4 cr.  
53416 003 LAB, 11:15-12:05 T, Burton Hall 120, In Person Term Based; 4 cr.

**3032 Regression and Correlated Data****(Student Option; Prereq: STAT 3011 or STAT 3021)**

- 55057 001 LEC, 11:15-12:05 MWF, Bruininks Hall 220, In Person Term Based; Georgia(Zhuozhi) Huang ; 4 cr.
- 55058 002 LAB, 10:10-11:00 T, Blegen Hall 435, In Person Term Based; 4 cr.
- 55059 003 LAB, 11:15-12:05 T, Blegen Hall 435, In Person Term Based; 4 cr.
- 55060 004 LEC, 14:30-15:20 MWF, Smith Hall 231, In Person Term Based; Georgia(Zhuozhi) Huang ; 4 cr.
- 55061 005 LAB, 12:20-13:10 T, Folwell Hall 116, In Person Term Based; 4 cr.
- 55062 006 LAB, 14:30-15:20 T, Cooke Hall 215, In Person Term Based; 4 cr.

**3301 Regression and Statistical Computing****(A-F only; Prereqs: STAT 3021 and (CSCI 1113 or CSCI 1133))**

- 68706 001 LEC, 12:20-13:10 MWF, Akerman Hall 209, In Person Term Based; 4 cr.
- 68708 002 LAB, 08:00-08:50 W, Ford Hall 150, In Person Term Based; 4 cr.

**3701 Introduction to Statistical Computing****(A-F only; Prerequisites: (MATH 1272 or 1372 or 1572H), CSCI 1113, and STAT 3032)**

- 55065 001 LEC, 13:25-14:15 MWF, Blegen Hall 10, In Person Term Based; 4 cr.
- 55468 002 LAB, 15:35-16:25 Th, Cooke Hall 214, In Person Term Based; 4 cr.
- 55613 003 LAB, 16:40-17:30 Th, Ford Hall 127, In Person Term Based; 4 cr.

**4051 Applied Statistics I****(A-F or Audit; Prerequisites: (STAT 3701 or STAT 3301) and (STAT 4101 or STAT 5101 or MATH 5651))**

- 55002 001 LEC, 10:10-11:00 MWF, Akerman Hall 225, In Person Term Based; Barbara Kuzmak ; 4 cr.
- 55003 002 LAB, 10:10-11:00 T, Blegen Hall 135, In Person Term Based; 4 cr.

**4052 Introduction to Statistical Learning****(A-F only; Prerequisites: STAT 4051 and (STAT 4102 or STAT 5102))**

- 55004 001 LEC, 10:10-11:00 MWF, Mechanical Engineering 212, In Person Term Based; Jie Ding ; 4 cr.
- 55005 002 LAB, 10:10-11:00 T, Mechanical Engineering 212, In Person Term Based; 4 cr.
- 66723 003 LAB, 09:05-09:55 T, Ford Hall 115, In Person Term Based; 4 cr.

**4101 Theory of Statistics I****(Student Option; Prereq: Math 1272 or Math 1372 or Math 1572H)**

- 54918 001 LEC, 14:30-15:20 MWF, Ford Hall 151, In Person Term Based; Tiefeng Jiang ; 4 cr.
- 54919 002 LAB, 13:25-14:15 T, Blegen Hall 415, In Person Term Based; 4 cr.

**4102 Theory of Statistics II****(Student Option; Prereq: 4101)**

- 52629 001 LEC, 14:30-15:20 MWF, Anderson Hall 230, In Person Term Based; Qian Qin ; 4 cr.
- 65297 002 DIS, 13:25-14:15 T, Vincent Hall 1, In Person Term Based; 4 cr.
- 66724 003 DIS, 14:30-15:20 T, Ford Hall 151, In Person Term Based; 4 cr.
- 66725 004 DIS, 12:20-13:10 T, Ford Hall 115, In Person Term Based; 4 cr.

**4893W Consultation and Communication for Statisticians****(A-F only; Prereq: Senior Statistics MajorWI)**

- 53291 001 LEC, 13:25-14:15 MWF, Molecular Cellular Biol 2-122, In Person Term Based; Barbara Kuzmak ; 3 cr.
- 54818 002 LEC, 13:25-14:15 MWF, Ford Hall 150, In Person Term Based; Kazeem Adepoju ; 3 cr.

**5021 Statistical Analysis****(Student Option; Prereq: college algebra or instr consent; credit will not be granted if credit has been received for STAT 3011)**

- 52511 001 LEC, 10:10-11:00 MWF, Mechanical Engineering 102, In Person Term Based; Lu Yang ; 4 cr.
- 52512 002 LAB, 10:10-11:00 Th, Mechanical Engineering 102, In Person Term Based; 4 cr.
- 67703 883 LEC, 10:10-11:00 MWF, Twin Cities Remote, Completely Online; Lu Yang ; 4 cr.
- 67704 884 LAB, 10:10-11:00 Th, Twin Cities Remote, Completely Online; 4 cr.

**5052 Statistical and Machine Learning****(A-F only; )**

- 66729 001 LEC, 09:05-09:55 MWF, Vincent Hall 213, In Person Term Based; Lan Liu ; 3 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))**

- 54921 001 LEC, 09:05-09:55 MWF, Keller Hall 3-210, In Person Term Based; Charles Geyer ; 4 cr.
- 54922 002 LAB, 09:05-09:55 T, Mechanical Engineering 102, In Person Term Based; 4 cr.
- 54923 003 LAB, 08:00-08:50 T, Mechanical Engineering 102, In Person Term Based; 4 cr.
- 67749 883 LEC, 09:05-09:55 MWF, Twin Cities Remote, Completely Online; Charles Geyer ; 4 cr.
- 67750 884 LAB, 08:00-08:50 T, Twin Cities Remote, Completely Online; Charles Geyer ; 4 cr.

**5102 Theory of Statistics II****(Student Option; Prereq: 5101 or Math 5651)**

- 52630 001 LEC, 15:35-16:25 MWF, 10 Church Street SE 100, In Person Term Based; Xiaou Li ; 4 cr.
- 53562 003 LAB, 13:25-14:15 T, Ford Hall 130, In Person Term Based; 4 cr.
- 66869 002 LAB, 15:35-16:25 T, Bruininks Hall 131B, In Person Term Based; 4 cr.

**5303 Designing Experiments****(Student Option; Prereq: 3022 or 3032 or 3301 or 4102 or 5021 or 5102 or instr consent)**

- 52536 001 LEC, 12:20-13:10 MWF, Mechanical Engineering 212, In Person Term Based; Gary Oehlert ; 4 cr.
- 53077 002 LAB, 12:20-13:10 T, Molecular Cellular Biol 2-120, In Person Term Based; 4 cr.

**5401 Applied Multivariate Methods****(Student Option; Prerequisite of this course, students are encouraged to have familiarity with linear algebra prior to enrolling. Please consult with a department advisor with questions. )**

- 53919 001 LEC, 11:15-12:05 MWF, Akerman Hall 319, In Person Term Based; Xiaou Li ; 3 cr.

**5601 Nonparametric Methods****(Student Option; Prereq: Stat classes 3032 or 3022 or 4102 or 5021 or 5102 or instr consent)**

- 66730 001 LEC, 13:25-14:15 MWF, Twin Cities Remote, Completely Online; Nathaniel Helwig ; 3 cr.

**5993 Tutorial****(Student Option; Prereq: instr consent)**

- 53125 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

**Stem Cell Biology (SCB)****5054 Stem Cell Institute Research Seminar and Journal Club****(A-F or Audit; Prereq: Acceptance into stem cell biology [master's prog or PhD minor prog] or instr consent)**

- 62631 001 LEC, 16:00-17:00 MWF, No Room Required, In Person Term Based; Susan Keirstead ; 2 cr.

**Studies in Cinema Media Cultur (SCMC)****1201V Honors Course: Cinema****(Student Option; AH,WI)**

- 56173 002 DIS, 09:05-09:55 Th, Bruininks Hall 119, In Person Term Based; Meets With: 002 CSCL 1201V; Michelle Lekas ; 4 cr.
- 56339 001 LEC, 09:05-12:05 F, Blegen Hall 10, In Person Term Based; Meets With: 001 CSCL 1201W001 SCMC 1201W001 CSCL 1201V; Michelle Lekas ; 4 cr.

**1201W Cinema****(Student Option; AH,WI)**

- 53704 001 LEC, 09:05-12:05 F, Blegen Hall 10, In Person Term Based; Meets With: 001 CSCL 1201V001 CSCL 1201W001 SCMC 1201V; Michelle Lekas ; 4 cr.
- 54960 002 DIS, 09:05-09:55 T, Bruininks Hall 144, In Person Term Based; Meets With: 002 CSCL 1201W; 4 cr.
- 54961 003 DIS, 10:10-11:00 T, Bruininks Hall 144, In Person Term Based; Meets With: 003 CSCL 1201W; Zosha Winegar-Schultz ; 4 cr.
- 54962 004 DIS, 10:10-11:00 Th, Tate Hall B65, In Person Term Based; Meets With: 004 CSCL 1201W; Nicholas Henderson ; 4 cr.
- 54963 005 DIS, 10:10-11:00 W, Tate Hall B45, In Person Term Based; Meets With: 005 CSCL 1201W; Nicholas Henderson ; 4 cr.

- 55073 006 DIS, 11:15-12:05 W, Tate Hall B45, In Person Term Based; Meets With: 006 CSCL 1201W; Nicholas Henderson ; 4 cr.

**1202W Media: Word, Image, Sound****(Student Option; AH,WI,TS)**

- 54954 001 LEC, 11:15-12:30 MW, Anderson Hall 270, In Person Term Based; Meets With: 001 CSCL 1202W; Eva Hudecova ; 4 cr.
- 54955 002 DIS, 09:05-09:55 M, Keller Hall 2-260, In Person Term Based; Meets With: 002 CSCL 1202W; Clare Harmon ; 4 cr.
- 54956 003 DIS, 10:10-11:00 M, Keller Hall 2-260, In Person Term Based; Meets With: 003 CSCL 1202W; Clare Harmon ; 4 cr.
- 54958 004 DIS, 10:10-11:00 F, Nicholson Hall 335, In Person Term Based; Meets With: 004 CSCL 1202W; Clare Harmon ; 4 cr.
- 54959 005 DIS, 09:05-09:55 W, Nicholson Hall 355, In Person Term Based; Meets With: 005 CSCL 1202W; Lucas Martin ; 4 cr.
- 55640 006 DIS, 10:10-11:00 W, Nicholson Hall 355, In Person Term Based; Meets With: 006 CSCL 1202W; Lucas Martin ; 4 cr.

**3201 Fundamentals of Digital Filmmaking****(A-F only; )**

- 56101 001 LAB, 13:25-15:20 MW, Amundson Hall 120, In Person Term Based; James Snapko ; 4 cr.

**3202 Intermediate Digital Filmmaking****(A-F only; Prereq: 3201 or instr consent)**

- 54666 001 LAB, 17:45-21:05 T, Nicholson Hall 315, In Person Term Based; James Snapko ; 4 cr.

**3210 Cinema and Ideology****(Student Option; AH)**

- 56018 001 LEC, 09:45-12:45 Th, Kolthoff Hall 140, 09:45-11:00 T, Nicholson Hall 120, In Person Term Based; Meets With: 001 CSCL 3210; Keya Ganguly ; 4 cr.

**3211 Global and Transnational Cinemas****(Student Option; GP)**

- 68359 001 LEC, 09:45-12:45 W, Nicholson Hall 120, 09:45-11:00 M, Nicholson Hall 120, In Person Term Based; Meets With: 001 CSCL 3211; Xiaoli Yang ; 4 cr.

**3212W Documentary Cinema: History and Politics****(Student Option No Audit; AH,WI,CIV)**

- 56020 001 LEC, 14:30-17:30 M, Civil Engineering Bldg 212, In Person Term Based; Meets With: 001 CSCL 3212W; Michelle Lekas ; 4 cr.

**3220W Screen Cultures****(Student Option; AH,WI,TS)**

- 55098 001 LEC, 09:45-12:15 F, Nicholson Hall 35, In Person Term Based; Meets With: 001 CSCL 3220W; Graeme Stout ; 3 cr.

**3221 On Television****(Student Option; CIV)**

- 56240 001 LEC, Completely Online; Meets With: 001 CSCL 3221; Eva Hudecova ; 3 cr.

**3896 Internship for Academic Credit****(Student Option; )**

- 56037 001 FWK, In Person Term Based; Graeme Stout ; 1-4 cr.

**3993 Directed Study****(Student Option; )**

- 54619 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**4993 Directed Study****(Student Option; )**

- 54620 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

**5002 Advanced Film Analysis****(A-F only; )**

- 55444 001 LEC, 16:00-18:30 W, Twin Cities Remote, Completely Online; Michelle Lekas ; 4 cr.

**5303 Sound Studies****(A-F or Audit; )**

- 68494 001 LEC, 13:00-14:15 TTh, Nicholson Hall 135, In Person Term Based; Meets With: 001 CSCL 5303; Michael Gallope ; 3 cr.

**5993 Directed Study****(Student Option; )**

- 54621 001 IND, 00:00-00:00 , , Independent/Directed Study; Michelle Lekas ; 1-3 cr.

**Study Abroad in Argentina (ARGN)****Study Abroad in Dublin (DBLN)****Study Abroad in Florence (FLOR)****Study Abroad in London (LNDN)****Study Abroad in Montpellier (MONT)****Study Abroad in Sydney (SDNY)****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)

57925 001 DIS, 08:00-09:40 MW, Carlson School of Mgmt L-110, In Person Term Based; Ralph Asher ; 4 cr.  
57926 002 DIS, 11:50-13:30 MW, Carlson School of Mgmt L-110, In Person Term Based; Steven Huchendorf ; 4 cr.  
57927 003 DIS, 09:55-11:35 TTh, Carlson School of Mgmt L-110, In Person Term Based; Bhupinder Juneja ; 4 cr.  
66097 004 DIS, 13:45-15:25 MW, Carlson School of Mgmt L-110, In Person Term Based; Steven Huchendorf ; 4 cr.

**3001 Supply Chain and Operations**

(A-F or Audit; )  
57928 001 LEC, 08:15-09:30 TTh, Hanson Hall 1-104, In Person Term Based; Hailong Cui ; 3 cr.  
57929 002 LEC, 09:45-11:00 TTh, Hanson Hall 1-102, In Person Term Based; Hailong Cui ; 3 cr.  
57930 003 LEC, 11:15-12:30 WF, Hanson Hall 1-108, In Person Term Based; Siddharth Chandramouli ; 3 cr.  
57931 004 LEC, 09:45-11:00 MW, Hanson Hall 1-106, In Person Term Based; Natalie Huang ; 3 cr.  
57932 005 LEC, 13:00-14:15 TTh, Hanson Hall 1-106, In Person Term Based; Hailong Cui ; 3 cr.  
57972 006 LEC, 13:00-14:15 MW, Hanson Hall 1-104, In Person Term Based; David Quimby ; 3 cr.  
58149 007 LEC, 11:15-12:30 TTh, Carlson School of Mgmt L-114, In Person Term Based; Alison Murphy ; 3 cr.  
66098 008 LEC, 16:00-17:15 TTh, Hanson Hall 1-103, In Person Term Based; Yuanyuan Ding ; 3 cr.

**3045 Sourcing and Supply Management**

(A-F only; Prereq: 3001)  
57933 001 LEC, 08:00-09:40 MW, Hanson Hall 1-109, In Person Term Based; Natalie Huang ; 2 cr.

**3048 Transportation and Logistics Management**

(A-F only; Prereq: 3001)  
58018 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Laura Crosby ; 2 cr.  
66099 002 LEC, 15:45-17:25 TTh, Hanson Hall 1-107, In Person Term Based; Laura Crosby ; 2 cr.

**3056 Supply Chain Planning and Control**

(A-F or Audit; Prereq: 3001 or instr consent)  
57934 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-206, In Person Term Based; Necati Ertekin ; 4 cr.

**3059 Quality Management and Lean Six Sigma**

(A-F or Audit; Prereq: 3001 or equiv or instr consent)  
57935 001 LEC, 16:00-17:40 MW, Carlson School of Mgmt 1-123, In Person Term Based; Steven Huchendorf ; 4 cr.

**3072 Managing Technologies in the Supply Chain**

(A-F only; Prereq: 3001)  
57936 001 LEC, 15:45-17:25 TTh, Hanson Hall 1-107, In Person Term Based; Sunil Singh ; 2 cr.

66100 002 LEC, 13:45-15:25 TTh, Hanson Hall 1-107, In Person Term Based; Sunil Singh ; 2 cr.

**4065W Supply Chain and Operations Strategy**

(A-F only; Prereq: 3001, 3056, 3059, 4 [OMS or SCO] elective crWl)  
57937 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-142, In Person Term Based; David Quimby ; 4 cr.  
58054 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-219, In Person Term Based; David Quimby ; 4 cr.

**Sustainability Studies (SUST)****3003 Sustainable People, Sustainable Planet**

(Student Option; Prereq: Soph or jr or srENV)  
57042 001 LEC, 09:45-11:00 TTh, Bruininks Hall 412, In Person Term Based; Kimberly Byrd ; 3 cr.

**3017 Environmental Justice**

(A-F only; DSJ)  
57206 001 LEC, 09:45-11:00 MW, Carlson School of Mgmt L-114, In Person Term Based; Michelle Garvey ; 3 cr.

**4004 Sustainable Communities**

(A-F only; Prereq: [3003 or GLOS 3304, [jr or sr] in sustainability studies minor] or instr consent)  
57039 001 LEC, 14:30-15:45 TTh, Blegen Hall 235, In Person Term Based; 3 cr.

**4096 Sustainability Internship**

(A-F only; Prereq: Familiarity with sustainability concepts through academic work or other experiences)  
57174 001 DIS, 16:00-17:15 Th, Vincent Hall 364, In Person Term Based; Mary Hannemann ; 2-4 cr.

**Sustainable Agricultural Syst (SAGR)****4096 Professional Experience Program: Internship in Sustainable Agriculture**

(S-N or Audit; Prereq: Undergraduate minor in sustainable agriculture)  
57145 001 LEC, 00:00-00:00 , , In Person Term Based; Craig Sheaffer ; 1-3 cr.

**Sustainable Systems Management (SSM)****3093 Directed Study**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )  
66863 001 IND, In Person Term Based; 1-4 cr.

**3094 Directed Research**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )  
66864 001 IND, In Person Term Based; 1-4 cr.

**3301 Global Water Resource Use and Sustainability**

(Student Option; ENV)  
57152 001 LEC, Completely Online; Gary Sands, Laura Bender ; 3 cr.

**4416 Building Testing and Diagnostics**

(Student Option; Prereq: 4413)  
57235 001 LEC, 15:00-16:40 M, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 SSM 5416; Patrick Huelman ; 2 cr.  
57236 002 LAB, 16:50-17:50 M, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 SSM 5416; Patrick Huelman ; 2 cr.

**4504W Sustainable Products Systems Management**

(A-F only; Prereq: Jr or Sr or instr consentWl)  
56962 001 LEC, 08:45-10:00 MW, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 SSM 5504; Omar Espinoza ; 3 cr.

**4506W Sustainable Systems Management Capstone**

(A-F only; Prereq: ESPM 3603 concurrent registration is required (or allowed) in Major seniors within two semesters of graduation.Wl)

57153 001 DIS, 14:15-17:15 W, Biosystems & Ag Eng Bldg 308, In Person Term Based; Zhenong Jin, Natalie Hunt ; 3 cr.

**5093 Directed Study**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed study counts towards CFANS major requirements. )  
66865 001 IND, In Person Term Based; 1-4 cr.

**5094 Directed Research**

(Student Option; Prereq: department consent, instructor consent, no more than 6 credits of directed research counts towards CFANS major requirements. )  
66866 001 IND, In Person Term Based; 1-4 cr.

**5416 Building Testing & Diagnostics**

(Student Option; Prereq: Grad student or instr consent)  
57238 001 LEC, 15:00-16:40 M, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 SSM 4416; Patrick Huelman ; 2 cr.  
57239 002 LAB, 16:50-17:50 M, Kaufert Laboratory 302, In Person Term Based; Meets With: 002 SSM 4416; Patrick Huelman ; 2 cr.

**5504 Sustainable Products Systems Management**

(A-F only; )  
56966 001 LEC, 08:45-10:00 MW, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 SSM 4504W; Omar Espinoza ; 3 cr.

**Swahili (SWAH)****1222 Beginning Swahili II**

(Student Option; Prereq: 1221 or equiv)  
53951 001 LEC, 12:20-13:10 MTWTh, Blegen Hall 425, In Person Term Based; Meets With: 001 SWAH 4222; Angaluki Muaka ; 5 cr.  
53960 002 LEC, 18:00-20:30 TTh, Blegen Hall 210, In Person Term Based; Meets With: 002 SWAH 4222; Angaluki Muaka ; 5 cr.

**3226 Intermediate Swahili II**

(Student Option; Prereq: 3225 or equiv)  
54286 001 LEC, 14:30-15:20 MTWThF, Blegen Hall 335, In Person Term Based; Meets With: 001 SWAH 4226; Angaluki Muaka ; 5 cr.

**4222 Beginning Swahili for Graduate Research II**

(Student Option; )  
53968 001 LEC, 12:20-13:10 MTWTh, Blegen Hall 425, In Person Term Based; Meets With: 001 SWAH 1222; Angaluki Muaka ; 5 cr.  
53969 002 LEC, 18:00-20:30 TTh, Blegen Hall 210, In Person Term Based; Meets With: 002 SWAH 1222; Angaluki Muaka ; 5 cr.

**4226 Intermediate Swahili for Graduate Research II**

(Student Option; Prereq: 4225 or equiv)  
54211 001 LEC, 14:30-15:20 MTWThF, Blegen Hall 335, In Person Term Based; Meets With: 001 SWAH 3226; Angaluki Muaka ; 5 cr.

**Swedish (SWED)****1002 Beginning Swedish**

(Student Option; Prereq: 1001)  
52755 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 SWED 4002; Lena Norrman ; 5 cr.

**1004 Intermediate Swedish**

(Student Option; Prereq: 1003)  
54806 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 SWED 4004; Lena Norrman ; 5 cr.

**4002 Beginning Swedish for Graduate Research**

(Student Option; )  
53072 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 SWED 1002; Lena Norrman ; 5 cr.

**4004 Intermediate Swedish for Graduate Research**

(Student Option; )  
54807 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 SWED 1004; Lena Norrman ; 5 cr.

**Theatre Arts (TH)****1101V Honors Section: Introduction to the Theater**

(A-F only; Prereq: Honors student(AH,WI))  
53426 001 LEC, 13:25-15:20 W, Rarig Center 210, In Person Term Based; Meets With: 001 TH 1101W; Michal Kobialka ; 3 cr.

53427 081 DIS, 13:25-15:20 F, Hubert H. Humphrey School 25, In Person Term Based; Greta Gebhard ; 3 cr.

**1101W Introduction to the Theatre**

(Student Option; AH,WI)  
53111 001 LEC, 13:25-15:20 W, Rarig Center 210, In Person Term Based; Meets With: 001 TH 1101V; Michal Kobialka ; 3 cr.

53180 002 DIS, 13:25-15:20 M, Room TBA, In Person Term Based; Michal Kobialka ; 3 cr.

53181 003 DIS, 13:25-15:20 F, Room TBA, In Person Term Based; Michal Kobialka ; 3 cr.

**1301 Acting/Non-Majors**

(Student Option; )  
53112 001 LEC, 18:00-21:00 M, Twin Cities Remote, Completely Online; T. Mychael Rambo ; 3 cr.

**1321 Fundamentals of Acting & Performance**

(Student Option; )  
53543 001 LAB, 11:15-13:10 MW, Rarig Center 10, In Person Term Based; Kym Longhi ; 3 cr.

**1322 Creating the Performance**

(Student Option; )  
54328 001 LAB, 13:25-15:20 TTh, Rarig Center 90, In Person Term Based; Kym Longhi ; 3 cr.  
54329 002 LAB, 13:25-15:20 TTh, Rarig Center 630, In Person Term Based; Luverne Seifert ; 3 cr.

**1361 Singing for Musical Theatre**

(A-F or Audit; )  
55068 001 LEC, 09:05-11:00 TTh, Rarig Center 506 - Studio A, In Person Term Based; Samantha Laumann ; 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)  
54997 001 LAB, 11:00-17:00 Sa, Lab TBA, In Person Term Based; Deborah Pearson ; 1 cr.

**1395 BFA Acting II**

(A-F or Audit; Prereq: 1391)  
53630 001 LAB, 15:45-18:00 M, Guthrie Theater, Room 1, 12:20-14:15 F, Rarig Center 20, 16:40-17:30 TTh, Rarig Center 20, 13:25-16:25 TTh, Rarig Center 20, In Person Term Based; Steve Cardamone, Bruce Roach ; 3 cr.

**1396 BFA Voice and Speech II**

(A-F or Audit; Prereq: 1392)  
53631 001 LAB, 14:30-17:30 WF, Rarig Center 10, In Person Term Based; Lucinda Holshue ; 2 cr.

**1397 BFA Movement II**

(A-F or Audit; Prereq: 1393)  
53632 001 LAB, 13:25-15:20 M, Guthrie Theater, Room 1, 11:15-13:10 Th, Rarig Center 20, 13:25-14:15 W, Rarig Center 506 - Studio A, 11:15-13:10 T, Rarig Center 506 - Studio A, In Person Term Based; Theodore Roseen, Joseph Krienke, Marciano Silva Dos Santos, Nicolas Collard ; 2 cr.

**1501 Introduction to Design for the Theatre**

(A-F only; )  
54233 001 LEC, 11:15-13:10 TTh, Rarig Center 210, In Person Term Based; Sarah Bahr ; 3 cr.

**2395 BFA Acting IV**

(A-F or Audit; Prereq: BFA-Acting sophomore)  
53644 001 LAB, 15:00-17:30 M, Guthrie Theater, Room 2, 13:25-15:20 T, Rarig Center 10, 11:00-17:00 Sa, Lab TBA, 14:30-17:30 F, Rarig Center 20, 19:00-22:00 MTWThF, Lab TBA, 13:25-17:30 W, Rarig Center 20, In Person Term Based; Steve Cardamone, Bruce Roach, Joseph Krienke, Annie Enneking, Robert Rosen ; 3 cr.

**2396 BFA Voice and Speech IV**

(A-F or Audit; Prereq: BFA-acting, sophomore)  
53633 001 LAB, 12:20-14:15 F, Rarig Center 10, 15:35-18:00 TTh, Rarig Center 10, In Person Term Based; Samantha Laumann ; 2 cr.

**2397 BFA Movement IV**

(A-F or Audit; Prereq: BFA-acting sophomore)  
53634 001 LAB, 13:25-15:20 Th, Rarig Center 10, 11:15-13:10 MW, Rarig Center 506 - Studio A, In Person Term Based; Annie Enneking, Brian Sostek ; 2 cr.

**3100 Theatre Lab Practicum**

(S-N or Audit; )  
52728 001 LAB, 13:25-15:20 MW, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55146 007 LAB, 13:25-17:30 M, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55147 008 LAB, 13:25-17:30 T, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55148 009 LAB, 13:25-17:30 W, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55149 010 LAB, 13:25-17:30 Th, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55520 002 LAB, 15:35-17:30 MW, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55521 003 LAB, 13:25-15:20 TTh, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55522 004 LAB, 15:35-17:30 TTh, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55523 005 LAB, 13:25-15:20 WF, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
55524 006 LAB, 15:35-17:30 WF, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.  
56223 011 LAB, 13:25-17:30 F, Rarig Center 130, In Person Term Based; Jason Allyn-Schwerin ; 1 cr.

56446 012 LAB, 13:25-15:20 MW, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew ; 1 cr.

68744 013 LAB, 15:35-17:30 MW, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew ; 1 cr.

68745 014 LAB, 13:25-15:20 TTh, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew ; 1 cr.

68746 015 LAB, 15:35-17:30 TTh, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew ; 1 cr.

68748 016 LAB, 13:25-15:20 MW, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68749 017 LAB, 15:35-17:30 MW, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68750 018 LAB, 13:25-15:20 TTh, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68751 019 LAB, 15:35-17:30 TTh, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68752 020 LAB, 13:25-15:20 WF, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68753 021 LAB, 15:35-17:30 WF, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68754 022 LAB, 13:25-17:30 M, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68758 026 LAB, 13:25-17:30 F, Rarig Center 328, In Person Term Based; Bill Healey ; 1 cr.

68759 027 LAB, 13:25-15:20 TTh, Lab TBA, In Person Term Based; Montana Johnson ; 1 cr.

68760 028 LAB, 13:25-17:30 F, Lab TBA, In Person Term Based; Montana Johnson ; 1 cr.

68770 029 LAB, In Person Term Based; Christine Swartwout ; 1 cr.

68771 030 LAB, In Person Term Based; Christine Swartwout ; 1 cr.

**3152W Global Avant-Gardes: Theatre, Music, Modernity**

(Student Option; HIS,WI)  
55353 001 LEC, 11:15-13:10 MW, Carlson School of Mgmt L-126, In Person Term Based; Sonali Pahwa ; 3 cr.

**3172 Western Theatre & Performance**

Historiography: Part II  
(Student Option; )  
53690 001 LEC, 11:15-13:10 TTh, Blegen Hall 250, In Person Term Based; Michal Kobialka, Michael Valdez ; 3 cr.

**3316 Voice for the Actor**

(A-F only; Prereq: 1101, 1321, 1322)  
55563 001 LAB, 09:05-11:00 TTh, Rarig Center 10, In Person Term Based; Keely Wolter ; 3 cr.

**3322 Acting II**

(Student Option; )

55150 001 LAB, 15:35-17:30 TTh, Rarig Center 630, In Person Term Based; Sarah Agnew ; 3 cr.

**3330 Physical Approaches to Acting**

(Student Option; Prereq: 1322, [3314 or concurrent registration is required (or allowed) in 3314], audition, instr consent)  
53737 001 LAB, 09:05-11:00 MW, Rarig Center 90, In Person Term Based; Kym Longhi ; 3 cr.

**3332 Circus Performance**

(A-F only; )  
68320 001 LAB, 11:15-13:10 F, Rarig Center 506 - Studio A, In Person Term Based; 1 cr.

**3370 BA Masterclass**

(A-F only; )  
54803 001 LAB, 11:15-13:10 F, Rarig Center 90, In Person Term Based; Kimberly Richardson ; 1 cr.  
54804 002 LAB, 11:15-13:10 F, Rarig Center 630, In Person Term Based; Samantha Laumann ; 1 cr.

**3381 Theater Storytelling and Solo Performance**

(Student Option; )  
56135 001 LEC, 11:15-13:10 TTh, Rarig Center 90, In Person Term Based; Luverne Seifert ; 3 cr.

**3395 BFA Intensive I**

(A-F or Audit; Prereq: BFA-acting jr)  
53635 001 LAB, 14:30-17:00 M, Guthrie Theater, Room 3, 13:25-17:30 F, Rarig Center 630, 13:25-17:30 TTh, Rarig Center 506 - Studio A, In Person Term Based; Steve Cardamone, Lucinda Holshue, Deborah Pearson ; 2 cr.

**3398 BFA Rehearsal & Performance I**

(A-F or Audit; Prereq: BFA-acting jr)  
53636 001 LAB, 11:00-17:00 Sa, Lab TBA, 19:00-22:00 MTWThF, Lab TBA, In Person Term Based; Lucinda Holshue ; 2 cr.

**3399 BFA Rehearsal and Performance II**

(A-F or Audit; Prereq: BFA-acting jr)  
53637 001 LAB, 11:00-17:00 Sa, Lab TBA, 19:00-22:00 MTWThF, Lab TBA, In Person Term Based; Joseph Krienke, Doug Scholz-Carlson ; 2 cr.

**3521 Introduction to Scenic Design for Theatre and Performance**

(Student Option; )  
56141 001 LEC, 15:35-17:30 TTh, Rarig Center 275, In Person Term Based; Chelsea Masteller Warren ; 3 cr.

**3541 Introduction to Stage Lighting Design**

(Student Option; Prereq: 3571)  
56142 001 LEC, 13:25-15:20 TTh, Rarig Center 210, In Person Term Based; Marcus Dilliard ; 3 cr.

**3571 Introduction to Technology for the Theatre**

(A-F only; Prereq: 1501)  
54232 001 LEC, 11:15-13:10 MW, Rarig Center 185, In Person Term Based; Bill Healey, Montana Johnson, Zeb Hults, Susan Binder-Pettigrew ; 3 cr.  
55379 002 LAB, 13:25-15:20 MW, Lab TBA, In Person Term Based; Bill Healey ; 3 cr.  
55515 003 LAB, 15:35-17:30 MW, Lab TBA, In Person Term Based; Bill Healey ; 3 cr.  
55516 004 LAB, 13:25-15:20 TTh, Lab TBA, In Person Term Based; Bill Healey ; 3 cr.  
55517 005 LAB, 15:35-17:30 TTh, Lab TBA, In Person Term Based; Bill Healey ; 3 cr.  
55518 006 LAB, 13:25-17:30 F, Lab TBA, In Person Term Based; Bill Healey ; 3 cr.  
55519 007 LAB, In Person Term Based; Bill Healey ; 3 cr.

**3711 Beginning Directing**

(Student Option; Prereq: 1101, 1321, 1322)  
69142 001 LAB, 09:05-11:00 TTh, Rarig Center 90, In Person Term Based; Craig Johnson ; 3 cr.

**3760 Project Stage Management**

(Student Option; )  
66006 001 FWK, In Person Term Based; Christine Swartwout ; 2 cr.

**3993 Directed Study**

(Student Option; Prereq: 6 Th cr, instr consent, dept consent, college consent)  
53684 001 IND, In Person Term Based; 1-6 cr.

**4380 Creative Collaboration**

(Student Option; Prereq: Audition, interview, instr consent)

65970 001 LAB, 19:00-22:30 MTWThF, Rarig Center 90, 19:00-22:30 MTWThF, Rarig Center 90, In Person Term Based; Luverne Seifert, Sonja Kufnec; 1-3 cr.  
68112 002 LAB, 19:00-22:30 MTWThF, Rarig Center 90, In Person Term Based; Michael Sommers; 1-3 cr.

**4395 BFA Intensive III**

(A-F or Audit; Prereq: BFA-acting sr)  
53638 001 LAB, 14:30-17:30 F, Rarig Center 506 - Studio A, 14:30-17:30 MW, Lab TBA, In Person Term Based; Bruce Roach, Steve Cardamone; 2 cr.

**4398 BFA Rehearsal and Performance V**

(A-F or Audit; Prereq: BFA-acting sr)  
53639 001 LAB, 11:00-17:00 Sa, Lab TBA, 19:00-22:00 MTWThF, Lab TBA, In Person Term Based; Deborah Pearson; 2 cr.

**4399 BFA Rehearsal and Performance VI**

(A-F or Audit; Prereq: BFA-acting sr)  
53640 001 LAB, 11:00-17:00 Sa, Lab TBA, 19:00-22:00 MTWThF, Lab TBA, In Person Term Based; Bruce Roach, James Williams, Michelle O'Neill, Keely Wolter, Annie Enneking; 2 cr.

**4532 Makeup for the Actor**

(Student Option; )  
54338 001 LAB, 09:05-12:05 F, Twin Cities Remote, Completely Online; Theresa Bundick; 2 cr.

**4901 Capstone Project for Theater**

(S-N or Audit; Prereq: Sr, [Th or Dnce major])  
53961 001 IND, 00:00-00:00 , , In Person Term Based; Kym Longhi, Jesus Leyva; 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])  
52768 001 IND, 00:00-00:00 , , In Person Term Based; Michal Kobialka; 2-4 cr.

**5100 Theatre Practicum**

(Student Option; Prereq: instr consent, dept consent; 4 cr of 3100 for undergrads)  
52729 001 FWK, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**5182W Contemporary Black Drama and Dramaturgies**

(Student Option; WI)  
66008 001 LEC, 15:35-17:30 TTh, Hubert H. Humphrey School 15, In Person Term Based; Talvin Wilks; 3 cr.

**5330 Comedy: Advanced Physical Performance Studio**

(A-F only; Prereq: 3330, audition)  
54195 001 LAB, 11:15-13:10 MW, Rarig Center 90, In Person Term Based; Robert Rosen; 3 cr.

**5500 Theatre Design Practicum**

(Student Option; Prereq: Th 3521, 3531, or 3541)  
52730 001 FWK, 00:00-00:00 , , In Person Term Based; Marcus Dilliard; 1-3 cr.  
56214 002 FWK, In Person Term Based; Matthew Lefebvre; 1-3 cr.  
56215 003 FWK, In Person Term Based; Chelsea Masteller Warren; 1-3 cr.  
67805 004 FWK, In Person Term Based; Frederick Kennedy; 1-3 cr.

**5530 Costume Design**

(Student Option; Prereq: 3531)  
56143 001 LAB, 10:10-12:05 MW, Rarig Center 275, In Person Term Based; Matthew Lefebvre; 3 cr.

**5559 Sound Design for Performance**

(Student Option; Prereq: 4555 or instr consent)  
66007 001 DIS, 10:10-12:05 MW, Rarig Center 210, In Person Term Based; Frederick Kennedy; 3 cr.

**5560 Drawing, Rendering, and Painting for the Theatre Designer II**

(Student Option; Prereq: 5510)  
56307 001 LAB, 08:00-09:55 MW, Rarig Center 275, In Person Term Based; Matthew Lefebvre; 3 cr.

**5570 Properties/Scenery Technology**

(Student Option; Prereq: 3515 or grad or instr consent)  
55069 001 FWK, 08:00-11:00 TTh, Rarig Center 30, In Person Term Based; Angeliqe Powers; 1-3 cr.

**5580 Costume Technology**

(Student Option; Prereq: 3571 or grad or instr consent)  
67888 001 LEC, 18:30-21:30 MW, Rarig Center 230, In Person Term Based; Andrea Moriarity; 3 cr.  
67889 002 LEC, 10:10-12:05 TTh, Rarig Center 230, In Person Term Based; Susan Binder-Pettigrew; 3 cr.

**5590 Theatre Technology Practicum**

(Student Option; Prereq: 3515, instr consent, dept consent; 4 cr max for undergrads)  
56220 001 FWK, In Person Term Based; Marcus Dilliard; 1-3 cr.  
56221 002 FWK, In Person Term Based; Matthew Lefebvre; 1-3 cr.  
56222 003 FWK, In Person Term Based; Chelsea Masteller Warren; 1-3 cr.

**5711 Advanced Stage Direction**

(Student Option; Prereq: [4711, instr consent] or grad student)  
56134 001 LAB, 15:35-17:30 MW, Rarig Center 90, In Person Term Based; Joel Sass; 3 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])  
54875 001 FWK, 00:00-00:00 , , In Person Term Based; Christine Swartwout; 2 cr.

**5993 Directed Study**

(Student Option; Prereq: 6 Th cr, instr consent, dept consent, college consent.)  
52731 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

**Toledo International Program (TLDO)****Toxicology (TXCL)****University College (UC)****4301 Perspectives: Interrelationships of People and Animals in Society Today**

(Student Option; )  
64423 001 LEC, 00:00-00:00 , , 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)  
53730 001 LEC, 13:00-14:15 TTh, Anderson Hall 250, In Person Term Based; Meets With: 001 URBS 3001W; Kate Derickson; 3 cr.

**3001W Introduction to Urban Studies: The Complexity of Metropolitan Life**

(A-F or Audit; WI)  
54549 001 LEC, 13:00-14:15 TTh, Anderson Hall 250, In Person Term Based; Meets With: 001 URBS 1001W; Kate Derickson; 3 cr.

**3200 Urban Studies Colloquium**

(A-F or Audit; Prereq: dept consent)  
68122 002 DIS, 15:30-17:30 T, Blegen Hall 335, In Person Term Based; Hannah Ramer; 1 cr.  
68123 003 DIS, 15:30-17:30 Th, Blegen Hall 225, In Person Term Based; Heather Huseby; 1 cr.  
68245 001 DIS, 17:30-19:30 T, Blegen Hall 145, In Person Term Based; Jason Wittenberg; 1 cr.

**3500 Urban Studies Workshop**

(A-F or Audit; Prereq: instr consent)  
68124 001 FWK, 15:00-17:30 W, Hubert H. Humphrey School 15, In Person Term Based; Erin Jerabek, Kelly Hoffman; 3 cr.  
68125 002 FWK, 17:30-20:00 W, Blegen Hall 105, In Person Term Based; Samuel Ero-phillips; 3 cr.

**3751 Understanding the Urban Environment**

(A-F or Audit; ENV)

52828 001 LEC, 09:45-11:00 TTh, Hanson Hall 1-111, In Person Term Based; Paula Pentel; 3 cr.

**3771 Fundamentals of Transit**

(A-F only; )  
53735 001 LEC, 12:20-15:20 F, Blegen Hall 110, In Person Term Based; Francis Loetterle; 3 cr.

**3861 Financing Cities**

(A-F only; )  
55232 001 LEC, 17:30-20:30 M, Bruininks Hall 117, In Person Term Based; Carol Becker; 3 cr.

**3896 Urban Studies Internship Seminar**

(A-F or Audit; Prereq: Sr, internship placement, dept consent, instr consent)  
54347 001 FWK, 13:30-15:00 M, Blegen Hall 330, In Person Term Based; Paula Pentel; 2 cr.

**3955W Senior Paper Seminar**

(A-F or Audit; Prereq: dept consentWI)  
52829 001 LEC, 14:30-16:30 Th, Blegen Hall 205, In Person Term Based; 2 cr.

**3993 Urban Studies Directed Study**

(Student Option; Prereq: UrbS majors, instr consent, dept consent.)  
52831 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**Urdu (URDU)****1012 Beginning Urdu II**

(Student Option No Audit; )  
55473 001 LEC, 09:05-09:55 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 4002; Meraj Ahmed; 5 cr.

**3022 Intermediate Urdu II**

(Student Option No Audit; )  
55475 001 LEC, 10:10-11:00 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 4004; Meraj Ahmed; 5 cr.

**3032 Advanced Urdu II**

(Student Option No Audit; Prereq: URDU 3031 or instructor consent)  
65884 001 LEC, 14:30-16:25 MW, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 4006; Meraj Ahmed; 4 cr.

**4002 Beginning Urdu II for Graduate Student Research**

(Student Option No Audit; )  
55474 001 LEC, 09:05-09:55 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 1012; Meraj Ahmed; 5 cr.

**4004 Intermediate Urdu II for Graduate Student Research**

(Student Option No Audit; )  
55476 001 LEC, 10:10-11:00 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 3022; Meraj Ahmed; 5 cr.

**4006 Advanced Urdu II for Graduate Research**

(Student Option No Audit; )  
65885 001 LEC, 14:30-16:25 MW, Peik Hall 165, In Person Term Based; Meets With: 001 URDU 3032; Meraj Ahmed; 4 cr.

**5993 Directed Study**

(Student Option; )  
56673 001 IND, Independent/Directed Study; Meraj Ahmed; 1-5 cr.

**Veterinary & Biomedical Sci (VBS)****2032 General Microbiology With Laboratory**

(A-F only; Prereq: One semester each of college chemistry, biology)  
45261 001 LEC, Completely Online; Cheryl Dvorak, Dawn Foster Hartnett; 5 cr.  
45262 002 LAB, 09:00-11:00 TTh, Veterinary Science 325, In Person Term Based; Dawn Foster Hartnett, Cheryl Dvorak; 5 cr.  
45280 003 LAB, 11:30-13:30 TTh, Veterinary Science 325, In Person Term Based; Cheryl Dvorak, Dawn Foster Hartnett; 5 cr.

65038 004 LAB, 14:00-16:00 TTh, Veterinary Science 325, In Person Term Based; Dawn Foster Hartnett, Cheryl Dvorak ; 5 cr.

### 2100 Companion Animal Anatomy

(A-F only; Prereq: General Biology (e.g., BIOL 1009) is recommended)

45306 002 LAB, 13:55-15:50 F, Animal Science / Vet Med 40, In Person Term Based; Christina Clarkson, Sarah Brown ; 3 cr.

## Veterinary Clinical Sciences (VCS)

### 2201 The Intersection of Cancer in Society and Technology

(A-F only; )

65043 001 DIS, 13:25-14:15 MWF, Bruininks Hal 121, In Person Term Based; Jong Hyuk Kim, Jaime Modiano ; 3 cr.

### 4606 Small Animal Management

(A-F or Audit; )

45283 001 LEC, 08:30-09:20 MWF, Ruttan Hall B25, In Person Term Based; Susan Lowum ; 3 cr.  
64960 002 DIS, Completely Online; Kristy Lashbaugh ; 3 cr.

## Veterinary Medicine, Graduate (VMED)

### 5181 Spatial Analysis in Infectious Disease Epidemiology

(Student Option No Audit; Prereq: Intro to epidemiology, statistics.)

45303 001 LEC, 09:00-12:00 F, Coffey Hall 50, In Person Term Based; Randall Singer ; 3 cr.

### 5243 Advanced Small Animal Pathobiology IV

(A-F only; Prereq CVM grad student, [DVM or foreign equiv] degree.)

45334 001 LEC, 08:00-09:00 M, No Room Required, In Person Term Based; Ned Patterson ; 1 cr.

### 5295 Problems in Large Animal Clinical Medicine/Surgery and Theriogenology (A-F or Audit; Prereq: VMed grad student, possess DVM)

45278 001 LEC, 08:00-09:00 Th, No Room Required, In Person Term Based; Stephanie Valberg ; 1 cr.

### 5310 Topics in Veterinary Clinical Pathology

(S-N only; Prereq: Grad student in CVM)

45293 001 LEC, 08:00-09:00 F, No Room Required, In Person Term Based; 1 cr.

### 5319 Veterinary Gross Pathology

(S-N only; Prereq Grad student in CMB or [VMED, [DVM degree or foreign equivalent], college consent])

45335 001 LEC, 00:00-00:00 , In Person Term Based; Arno Wuenschmann, Lisa Hubinger ; 1 cr.

### 5330 Veterinary Descriptive Histopathology (Student Option; Prereq: Grad student in VMED or [CMB, [DVM degree or foreign equiv]] or instr consent)

45336 001 DIS, 00:00-00:00 , In Person Term Based; Anibal Armién ; 1 cr.

### 5410 Scientific Writing and Speaking

(A-F only; Prereq: Grad student in health sciences)

45337 001 LEC, 13:00-14:50 T, Twin Cities Remote, Completely Online; Sagar Goyal ; 2 cr.

### 5594 Research in Veterinary Medicine

(Student Option; Prereq: Jr, instr consent)

45300 001 LAB, 00:00-00:00 , Independent/Directed Study; Srinand Sreevatsan, Lisa Hubinger ; 1-4 cr.

### 5621 Principles of Veterinary Anesthesiology

(A-F only; Prereq: VMed grad student, [DVM degree or foreign equiv], instr consent)

45284 001 LEC, 00:00-00:00 , In Person Term Based; 2 cr.

### 5895 Veterinary Public Health Integrated Learning Experience

(S-N only; )

45461 001 IND, In Person Term Based; 1-3 cr.

### 5896 Application of Veterinary Public Health

(S-N only; )

45462 001 FWK, In Person Term Based; 0.5-6 cr.

### 5910 Grant Writing: What Makes a Winning Proposal?

(Student Option; )

45317 001 LEC, 15:00-16:30 M, Veterinary Science 215, In Person Term Based; Meets With: 001 CMB 5910; Mark Rutherford ; 2 cr.

### 5930 Antimicrobial Resistance (AMR) from a One Health Perspective

(A-F only; )

68281 001 DIS, 13:00-13:50 T, Twin Cities Remote, Completely Online; Noelle Noyes ; 1 cr.

### 5990 Veterinary Public Practice Seminar

(S-N only; )

45506 001 LEC, In Person Term Based; 0.5 cr.

## Veterinary Population Medicine (VPM)

### 1550 Introduction to the horse including care, handling, and recognizing behaviors

(Student Option; )

45304 001 LEC, Completely Online; Kelly Vallandingham ; 1 cr.

### 1903 Poison, Poisoning and Society

(A-F only; )

65968 001 LEC, 09:05-09:55 MW, Hubert H. Humphrey School 30, In Person Term Based; Ashok Singh ; 2 cr.

### 1908 Deep Ocean Mining: Novel Economic Opportunity or Ecological Catastrophe of Common Heritage

(A-F only; )

65905 001 IND, 13:00-14:15 MW, Akerman Hall 327, In Person Term Based; Ashok Singh ; 3 cr.

### 2455 Introduction to Raptor Reconditioning and Release

(A-F only; )

65906 001 LEC, 19:00-20:30 T, Twin Cities Remote, Completely Online; Michelle Willette ; 1 cr.

### 2551 Bioresecurity for Horse Farms

(Student Option; )

67636 001 IND, Completely Online; Anna Firshman ; 1 cr.

### 3021 Protecting your Lunch: Food Defense Awareness

(A-F only; )

68488 001 DIS, Completely Online; Jennifer van de Lig, Debra Freedman ; 1 cr.

### 4131 Immunology

(Student Option; )

45295 001 LEC, 18:15-19:45 TTh, Molecular Cellular Biol 2-120, In Person Term Based; Thomas Molitor ; 3 cr.

### 4400 Diseases in free-ranging and captive wildlife

(A-F or Audit; )

45393 001 LEC, 11:45-13:00 TTh, Biological Sciences Ctr 12, In Person Term Based; Michelle Willette ; 3 cr.

## Vienna Executive MBA (VMBA)

## Water Resources Science (WRS)

### 5101 Water Policy

(Student Option; )

56942 001 LEC, 12:30-13:45 TTh, Twin Cities Remote, Completely Online; Meets With: 001 PA 5723; Jeffrey Peterson ; 3 cr.

57055 002 LEC, 00:00-00:00 , No Room Required, In Person Term Based; 3 cr.

## Writing Studies (WRIT)

### 1001 The Art of Explaining Things: Introduction to Technical Writing and Communication

(A-F only; )

55144 001 DIS, 13:00-14:15 TTh, Nicholson Hall 335, In Person Term Based; Brigitte Mussack ; 3 cr.

### 1301 University Writing

(A-F only; )

54036 015 DIS, 14:30-16:25 M, Akerman Hall 317, Partially Online; Vanessa Ramos ; 4 cr.

54037 016 DIS, 08:00-09:55 T, Akerman Hall 327, Partially Online; Rira Zamani ; 4 cr.

54038 017 DIS, 09:05-11:00 T, Appleby Hall 319, Partially Online; Sarah Chandler ; 4 cr.

54039 019 DIS, 10:10-12:05 T, Nicholson Hall 110, Partially Online; Jessa Wood ; 4 cr.

54040 023 DIS, 12:20-14:15 T, Appleby Hall 303, Partially Online; Michelle Herrin ; 4 cr.

54043 003 DIS, 12:50-14:45 W, Magrath Library 6, Partially Online; Matthew Kimlinger ; 4 cr.

54044 002 DIS, 09:35-11:30 W, Magrath Library 6, Partially Online; Matthew Kimlinger ; 4 cr.

54045 027 DIS, 14:30-16:25 T, Appleby Hall 303, Partially Online; Kaylen James ; 4 cr.

54046 028 DIS, 08:00-09:55 W, Nicholson Hall 345, Partially Online; Barbara Van Pilsun ; 4 cr.

54047 026 DIS, 13:25-15:20 T, Appleby Hall 11, Partially Online; J. Richards ; 4 cr.

54048 029 DIS, 09:05-11:00 W, Akerman Hall 317, Partially Online; Corinth Matera ; 4 cr.

54049 030 DIS, 09:05-11:00 W, Akerman Hall 313, Partially Online; Bridget Lillethorup ; 4 cr.

54050 031 DIS, 10:10-12:05 W, Appleby Hall 303, Partially Online; Nick Kleese ; 4 cr.

54051 032 DIS, 10:10-12:05 W, Appleby Hall 3, Partially Online; Nicole Montana ; 4 cr.

54052 033 DIS, 11:15-13:10 W, Appleby Hall 319, Partially Online; Barbara Van Pilsun ; 4 cr.

54053 034 DIS, 11:15-13:10 W, Appleby Hall 219, Partially Online; Sarah Chandler ; 4 cr.

54054 035 DIS, 11:15-13:10 W, Wulling Hall 220, Partially Online; Courtney Salmela ; 4 cr.

54055 036 DIS, 12:20-14:15 W, Appleby Hall 3, Partially Online; Treza Rosado ; 4 cr.

54056 037 DIS, 12:20-14:15 W, Appleby Hall 11, Partially Online; Bridget Lillethorup ; 4 cr.

54057 038 DIS, 12:20-14:15 W, Appleby Hall 103, Partially Online; Melissa Cundieff ; 4 cr.

54058 039 DIS, 13:25-15:20 W, Akerman Hall 215, Partially Online; Patricia Fillipi ; 4 cr.

54059 043 DIS, 09:05-11:00 Th, Appleby Hall 103, Partially Online; Treza Rosado ; 4 cr.

54060 005 DIS, 10:10-12:05 M, Nicholson Hall 355, Partially Online; Michelle Herrin ; 4 cr.

54061 044 DIS, 09:05-11:00 Th, Nicholson Hall 315, Partially Online; Megan Mills-Rittmann ; 4 cr.

54062 046 DIS, 10:10-12:05 Th, Blegen Hall 260, Partially Online; Dylan Reynolds ; 4 cr.

54063 047 DIS, 11:15-13:10 Th, Blegen Hall 240, Partially Online; Nick Kleese ; 4 cr.

54064 048 DIS, 11:15-13:10 Th, Akerman Hall 317, Partially Online; Courtney Salmela ; 4 cr.

54065 006 DIS, 10:10-12:05 M, Akerman Hall 313, Partially Online; Kyle Riper ; 4 cr.

54066 051 DIS, 12:20-14:15 Th, Appleby Hall 219, Partially Online; Tim Gustafson ; 4 cr.

54067 052 DIS, 13:25-15:20 Th, Blegen Hall 125, Partially Online; Dylan Reynolds ; 4 cr.

54068 055 DIS, 09:05-11:00 F, Akerman Hall 327, Partially Online; Emily Schoenbeck ; 4 cr.

54069 056 DIS, 09:05-11:00 F, Akerman Hall 227, Partially Online; Nick Kleese ; 4 cr.

54070 020 DIS, 11:15-13:10 T, Vincent Hall 301, Partially Online; Alan Berks ; 4 cr.

54071 057 DIS, 10:10-12:05 F, Pillsbury Hall 211, Partially Online; Cody Bursch ; 4 cr.

54072 058 DIS, 10:10-12:05 F, Nicholson Hall 345, Partially Online; Matthew Tchepikova-Trean ; 4 cr.

54073 059 DIS, 11:15-13:10 F, Akerman Hall 215, Partially Online; Kerstin Tuttle ; 4 cr.

54074 021 DIS, 11:15-13:10 T, Appleby Hall 319, Partially Online; Ezra Hyland ; 4 cr.

54075 041 DIS, 14:30-16:25 W, Koltthoff Hall 140, Partially Online; Dylan Reynolds ; 4 cr.

54076 061 DIS, Completely Online; Maureen Aitken ; 4 cr.

54077 062 DIS, Completely Online; Maureen Aitken ; 4 cr.

54078 009 DIS, 11:15-13:10 M, Appleby Hall 219, Partially Online; Melissa Cundieff ; 4 cr.

54079 063 DIS, Completely Online; Mark Anderson ; 4 cr.

54080 064 DIS, Completely Online; Tim Gustafson ; 4 cr.

54081 042 DIS, 08:00-09:55 Th, Akerman Hall 327, Partially Online; Courtney Salmela ; 4 cr.  
 54082 065 DIS, Completely Online; Tim Gustafson ; 4 cr.  
 54083 066 DIS, Completely Online; Elizabeth Hartman ; 4 cr.  
 54084 068 DIS, Completely Online; Michelle Herrin ; 4 cr.  
 54085 069 DIS, Completely Online; Jax Kinniburgh ; 4 cr.  
 54086 070 DIS, Completely Online; Jax Kinniburgh ; 4 cr.  
 54087 071 DIS, Completely Online; Jax Kinniburgh ; 4 cr.  
 54088 072 DIS, Completely Online; Jax Kinniburgh ; 4 cr.  
 54562 008 DIS, 11:15-13:10 M, Appleby Hall 11, Partially Online; Jennifer Doane ; 4 cr.  
 54581 067 DIS, Completely Online; Elizabeth Hartman ; 4 cr.  
 54629 054 DIS, 14:30-16:25 Th, Akerman Hall 327, Partially Online; Elise Toedt ; 4 cr.  
 54716 007 DIS, 11:15-13:10 M, Wulling Hall 220, Partially Online; Vanessa Ramos ; 4 cr.  
 54717 010 DIS, 12:20-14:15 M, Appleby Hall 3, Partially Online; Zoe Rodine ; 4 cr.  
 54781 040 DIS, 13:25-15:20 W, Akerman Hall 317, Partially Online; Nicole Montana ; 4 cr.  
 54782 045 DIS, 10:10-12:05 Th, Elliott Hall N647, Partially Online; Corinth Matera ; 4 cr.  
 54783 049 DIS, 11:15-13:10 Th, Molecular Cellular Biol 2-122, Partially Online; Megan Mills-Rittmann ; 4 cr.  
 54784 050 DIS, 12:20-14:15 Th, Ford Hall 130, Partially Online; Adam Burchard ; 4 cr.  
 54785 053 DIS, 13:25-15:20 Th, Vincent Hall 301, Partially Online; Corinth Matera ; 4 cr.  
 55197 018 DIS, 10:10-12:05 T, Appleby Hall 3, Partially Online; Patrick Carthey ; 4 cr.  
 55198 022 DIS, 12:20-14:15 T, Nicholson Hall 115, Partially Online; Sarah Chandler ; 4 cr.  
 55223 073 DIS, Completely Online; Nicole Montana ; 4 cr.  
 55372 074 DIS, Completely Online; Nicole Montana ; 4 cr.  
 65778 001 DIS, 09:35-11:30 M, Magrath Library 6, Partially Online; Matthew Kimlinger ; 4 cr.  
 65779 004 DIS, 09:05-11:00 M, Nicholson Hall 345, Partially Online; Mark Anderson ; 4 cr.  
 65780 011 DIS, 12:20-14:15 M, Appleby Hall 103, Partially Online; Mark Anderson ; 4 cr.  
 65781 012 DIS, 12:20-14:15 M, Akerman Hall 317, Partially Online; Emily Jones ; 4 cr.  
 65782 013 DIS, 13:25-15:20 M, Akerman Hall 313, Partially Online; Michelle Herrin ; 4 cr.  
 65783 014 DIS, 13:25-15:20 M, Akerman Hall 215, Partially Online; Melissa Cundieff ; 4 cr.  
 65784 075 DIS, Completely Online; Brigitte Mussack ; 4 cr.  
 65785 076 DIS, Completely Online; Matthew Hodapp ; 4 cr.  
 65786 077 DIS, Completely Online; Alison Obright ; 4 cr.  
 65787 078 DIS, Completely Online; Angelo Volpe ; 4 cr.  
 65802 100 DIS, 09:05-11:00 M, Akerman Hall 227, Partially Online; Sarah Selz ; 4 cr.  
 65803 101 DIS, 11:15-13:10 T, Appleby Hall 219, Partially Online; Sarah Selz ; 4 cr.  
 65804 102 DIS, 12:20-14:15 T, Nicholson Hall 110, Partially Online; Anne Fretheim ; 4 cr.  
 65805 103 DIS, 10:10-12:05 W, Smith Hall 121, Partially Online; Anne Fretheim ; 4 cr.  
 65806 104 DIS, Completely Online; Kimberley Strain ; 4 cr.  
 65807 105 DIS, Completely Online; Kimberley Strain ; 4 cr.  
 65808 106 DIS, Completely Online; Tara Zahler ; 4 cr.  
 65809 107 DIS, Completely Online; Tara Zahler ; 4 cr.  
 65811 200 DIS, 10:10-12:05 M, Akerman Hall 317, Partially Online; Ezra Hyland ; 4 cr.  
 65812 201 DIS, 13:25-15:20 M, Akerman Hall 227, Partially Online; Ezra Hyland ; 4 cr.  
 65813 202 DIS, 09:05-11:00 T, Bruininks Hall 420A, Partially Online; Patricia Fillipi ; 4 cr.  
 66269 300 DIS, Completely Online; Maureen Aitken ; 4 cr.  
 66608 079 DIS, Completely Online; Angelo Volpe ; 4 cr.  
 67863 080 DIS, Completely Online; Angelo Volpe ; 4 cr.  
 67867 081 DIS, Completely Online; Tara Zahler ; 4 cr.  
 67870 082 DIS, Completely Online; Kayla Carden ; 4 cr.  
 67876 203 DIS, 10:10-12:05 W, Nicholson Hall 115, Partially Online; Patricia Fillipi ; 4 cr.  
 67877 204 DIS, 13:25-15:20 W, Akerman Hall 313, Partially Online; Megan Mills-Rittmann ; 4 cr.  
 67878 205 DIS, 13:25-15:20 Th, Cooke Hall 215, Partially Online; Treza Rosado ; 4 cr.  
 68443 083 DIS, Completely Online; Keelia Estrada Moeller ; 4 cr.  
 68444 084 DIS, Completely Online; Thomas Forrest ; 4 cr.  
 68448 085 DIS, Completely Online; Nyla Numan ; 4 cr.  
 68449 086 DIS, Completely Online; Ciara Alfaro ; 4 cr.  
 68451 087 DIS, Completely Online; Jonathan Crowl ; 4 cr.  
 68452 088 DIS, Completely Online; Olivia Fantini ; 4 cr.  
 68453 089 DIS, Completely Online; Brandon Hackbarth ; 4 cr.  
 68454 090 DIS, Completely Online; Katherine Miller ; 4 cr.  
 68457 091 DIS, Completely Online; Elena Ramirez-Gorski ; 4 cr.  
 68458 092 DIS, Completely Online; Caitlin Baulch ; 4 cr.  
 68461 093 DIS, Completely Online; Asmita Ghimire ; 4 cr.  
 68778 206 DIS, Completely Online; Vanessa Ramos ; 4 cr.

### 3029W Business and Professional Writing (Student Option; WI)

54317 001 DIS, 14:30-15:45 MW, Kolthoff Hall 136, In Person Term Based; Brigitte Mussack ; 3 cr.  
 54318 002 DIS, 11:15-12:30 TTh, Nolte Center 229, In Person Term Based; Donald Ross Jr ; 3 cr.  
 56331 003 DIS, Completely Online; Sheryl Holt ; 3 cr.  
 68954 004 DIS, Completely Online; Ryan Wold ; 3 cr.

### 3101W Writing Arguments

(A-F or Audit; WI)  
 54241 001 DIS, 14:30-15:45 TTh, Nicholson Hall 355, In Person Term Based; Eduardo Nevarez ; 3 cr.

### 3102W Public Writing

(A-F only; CIV,WI)  
 55139 001 DIS, 13:00-14:15 TTh, Nolte Center 229, In Person Term Based; Donald Ross Jr ; 3 cr.

### 3152W Writing on Issues of Science and Technology

(A-F or Audit; WI)  
 54012 001 DIS, 14:30-15:45 MW, Nolte Center 229, In Person Term Based; Capper Nichols ; 3 cr.

### 3221W Communication Modes and Methods

(A-F only; WI)  
 54354 001 DIS, 09:45-11:00 TTh, Nolte Center 229, In Person Term Based; Richard Graff ; 3 cr.

### 3244W Critical Literacies: How Words

Change the Word  
(A-F or Audit; AH,WI,DSJ)  
 54260 001 DIS, 16:00-18:30 T, Appleby Hall 3, In Person Term Based; Mark Brenden ; 3 cr.

### 3291 Technical Communication Certificate

Capstone Project  
(A-F only; Prereq: instr consent)  
 54108 001 IND, 00:00-00:00 , , Independent/Directed Study; Barbara Horvath ; 1 cr.

### 3315 Writing on Issues of Land and the Environment

(A-F or Audit; AH,DSJ)  
 54565 001 DIS, 09:45-11:00 TTh, Appleby Hall 128, In Person Term Based; Thomas Reynolds ; 3 cr.

### 3405W Humanistic Healthcare and Communication

(Student Option; AH,WI)  
 54641 001 DIS, 13:00-14:15 WF, Mayo Bldg & Additions C231, In Person Term Based; William West ; 3 cr.

### 3441 Editing, Critique, and Style

(A-F only; )  
 54319 001 DIS, 11:15-12:30 TTh, Bruininks Hall 512A, In Person Term Based; Barbara Horvath ; 3 cr.  
 65656 002 DIS, 14:30-15:45 TTh, Nicholson Hall 345, In Person Term Based; Anne Lazaraton ; 3 cr.

### 3562W Technical and Professional Writing

(A-F only; WI)  
 54014 001 DIS, 11:15-12:30 TTh, Appleby Hall 204, Partially Online; Anne Lazaraton ; 4 cr.  
 54015 002 DIS, 14:30-15:45 MW, Kolthoff Hall 138, Partially Online; Luke Shackelford ; 4 cr.  
 54016 003 DIS, Completely Online; Joe Moses ; 4 cr.  
 54017 005 DIS, 09:45-11:00 MW, Nolte Center 229, Partially Online; Joe Moses ; 4 cr.  
 54018 006 DIS, 11:45-13:00 MW, Ruttan Hall B30, Partially Online; Emily Gresbrink ; 4 cr.  
 54019 007 DIS, 16:00-17:15 MW, Nolte Center 229, Partially Online; Joe Moses ; 4 cr.  
 54020 008 DIS, 17:30-20:00 M, Appleby Hall 223, Partially Online; Capper Nichols ; 4 cr.  
 54021 013 DIS, 00:00-00:00 , ONLINE, Completely Online; Katlyne Davis ; 4 cr.  
 54022 014 DIS, 00:00-00:00 , ONLINE, Completely Online; Cynthia Pope ; 4 cr.  
 54023 015 DIS, 00:00-00:00 , ONLINE, Completely Online; Cynthia Pope ; 4 cr.  
 54117 009 DIS, 09:45-11:00 TTh, Appleby Hall 204, Partially Online; Nathan Bollig ; 4 cr.  
 54196 016 DIS, 00:00-00:00 , ONLINE, Completely Online; Cynthia Pope ; 4 cr.  
 54335 012 DIS, Completely Online; Clayton Benjamin ; 4 cr.  
 54649 004 DIS, Completely Online; Clayton Benjamin ; 4 cr.  
 54897 020 DIS, 00:00-00:00 , ONLINE, Completely Online; William West ; 4 cr.  
 54964 010 DIS, 13:00-14:15 TTh, Appleby Hall 223, Partially Online; Brandi Fuglsby ; 4 cr.  
 54998 011 DIS, Completely Online; Capper Nichols ; 4 cr.

55044 019 DIS, 00:00-00:00 , ONLINE, Completely Online; William West ; 4 cr.  
 56005 017 DIS, 00:00-00:00 , ONLINE, Completely Online; Cynthia Pope ; 4 cr.  
 56435 018 DIS, Completely Online; Capper Nichols ; 4 cr.

### 3577W Rhetoric, Technology, and the Internet

(A-F only; TS,WI)  
 54570 001 DIS, 16:00-17:15 MW, Folwell Hall 28, In Person Term Based; Danielle M. Stambler ; 3 cr.  
 69592 002 DIS, Completely Online; John Logie ; 3 cr.

### 3671 Visual Rhetoric and Document Design

(A-F only; )  
 54366 001 DIS, 14:30-15:45 MW, Nicholson Hall 120, In Person Term Based; Brian Le Lay ; 3 cr.

### 3672W Project Design and Development

(A-F or Audit; WI)  
 54858 001 DIS, 11:15-12:30 MW, Nolte Center 229, In Person Term Based; Joe Moses ; 3 cr.

### 3701W Rhetorical Theory for Writing Studies

(A-F only; WI)  
 54024 001 DIS, 14:30-15:45 TTh, Nolte Center 229, In Person Term Based; Richard Graff ; 3 cr.

### 3896 Internship in Technical Writing and Communication

(A-F only; Prereq: Writ 3562W and 24 credits completed in the Technical Writing & Communication major)  
 54320 001 IND, 00:00-00:00 , , Independent/Directed Study; Barbara Horvath ; 3 cr.

### 3993 Directed Study

(Student Option; Prereq: instr consent, dept consent, college consent)  
 55045 001 IND, 00:00-12:00 , , Independent/Directed Study; 1-4 cr.

### 4501 Usability and Human Factors in Technical Communication

(A-F only; )  
 55009 001 DIS, 16:00-18:30 M, Bruininks Hall 420B, In Person Term Based; Nick Rosencrans ; 3 cr.

### 4662W Writing With Digital Technologies

(A-F only; Prereq: Jr or sr or instr consentWI)  
 65660 001 DIS, 16:00-17:15 TTh, Wulling Hall 220, In Person Term Based; Jim Hall ; 3 cr.

### 4995 Technical Writing and Communication Capstone

(A-F only; )  
 54700 001 IND, Independent/Directed Study; Molly Kessler ; 1 cr.  
 55184 002 IND, Independent/Directed Study; Joe Moses ; 1 cr.

### 4999 Technical Writing and Communication Capstone

(A-F only; )  
 65665 001 DIS, 09:05-11:35 M, Nolte Center 235, In Person Term Based; Meets With: 001 WRIT 4999H; Molly Kessler ; 3 cr.

### 4999H Technical Writing and Communication Honors Capstone

(A-F only; )  
 66256 001 DIS, 09:05-11:35 M, Nolte Center 235, In Person Term Based; Meets With: 001 WRIT 4999; Molly Kessler ; 3 cr.

### 5051 Graduate Research Writing for International Students

(Student Option; Prereq: Grad student)  
 54025 001 LEC, Completely Online; Sheryl Holt ; 3 cr.

### 5112 Information Design: Theory and Practice

(A-F or Audit; )  
 54751 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Dan Card ; 3 cr.

### 5196 Internship in Scientific and Technical Communication

(S-N or Audit; )

54355 001 IND, 00:00-00:00 , , Independent/Directed Study; 3-6 cr.

### 5291 Independent Study, Reading, and Research

(Student Option; Prereq: instr consent, dept consent)  
54119 001 DIS, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

### 5501 Usability and Human Factors in Technical Communication

(A-F only; )  
65666 001 DIS, 00:00-00:00 , ONLINE, Completely Online; Jim Hall ; 3 cr.

### 5532 Practicum in Writing Pedagogies

(S-N only; )  
65667 001 DIS, 13:00-15:10 W, Nolte Center 235, In Person Term Based; Kris Cory ; 1 cr.

## Youth Development and Research (YOST)

### 1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship

(Student Option; CIV)  
51750 001 LEC, 10:15-11:30 MW, Peters Hall 155, In Person Term Based; Nate Whittaker ; 3 cr.  
51751 002 LEC, 08:15-09:30 T, Burton Hall 125, Partially Online; Jenna Sethi ; 3 cr.

### 1366 Stories of Resistance & Change: Youth, Race, Power & Privilege in the U.S.

(Student Option; DSJ,LITR)  
52052 001 LEC, 08:15-09:30 TTh, Burton Hall 123, In Person Term Based; Molly Cooney ; 3 cr.  
52053 002 LEC, 13:00-14:15 MW, Burton Hall 125, In Person Term Based; Molly Rojas Collins ; 3 cr.  
52129 003 LEC, 13:30-14:45 MW, McNeal Hall 316, In Person Term Based; Jennifer Witt ; 3 cr.  
52146 004 LEC, 10:15-11:30 TTh, Peters Hall 39, In Person Term Based; Molly Rojas Collins ; 3 cr.  
52251 005 LEC, 13:30-14:45 TTh, Peters Hall 155, In Person Term Based; Jennifer Witt ; 3 cr.  
66582 006 LEC, 09:45-11:00 TTh, Burton Hall 120, In Person Term Based; Jennifer Witt ; 3 cr.

### 1368W Youth Global Perspectives

(Student Option; GP,WI,LITR)  
52054 001 LEC, 09:35-11:30 MW, Peters Hall 39, In Person Term Based; K.C. Harrison ; 4 cr.  
52372 003 LEC, 12:50-14:45 MW, Peters Hall 39, In Person Term Based; K.C. Harrison ; 4 cr.

### 2241 Experiential Learning

(Student Option; Prereq: YOST 1001 or instr consent)  
51762 001 LEC, 12:50-16:25 W, Peters Hall 5, In Person Term Based; Michael Valesano ; 4 cr.

### 3001 Introduction to History & Philosophy of Youthwork

(Student Option; Prereq: YOST 2xxx or instr consentDSJ,HIS)  
51705 001 LEC, 10:40-12:35 MW, Peters Hall 5, In Person Term Based; Katie Johnston-Goodstar ; 4 cr.

### 3032 Adolescent and Youth Development for Youthworkers

(Student Option; Prereq: YOST 1001 or 2101, [any Psych or CPsy course], or instr consent)  
51648 001 LEC, 08:30-10:25 MW, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5032; Alexander Fink ; 4 cr.

### 3101 Youthwork: Orientations and Approaches

(Student Option; Prereq: One gen psy course, one gen soc course, or instr consent)  
51706 001 LEC, 08:30-10:25 TTh, Peters Hall 5, In Person Term Based; Eric Billiet ; 4 cr.

### 3291 Independent Study in Youth Studies

(Student Option; Prereq: instr consent)  
51607 001 IND, Independent/Directed Study; Katie Johnston-Goodstar ; 1-9 cr.  
51608 002 IND, Independent/Directed Study; Ross VeLure Roholt ; 1-9 cr.

51609 003 IND, Independent/Directed Study; Ceema Samimi ; 1-9 cr.  
52026 004 IND, Independent/Directed Study; Saida Abdi ; 1-9 cr.  
52472 005 IND, In Person Term Based; Molly Rojas Collins ; 1-9 cr.

### 3325W Project-Based Writing For Education and Human Development Majors

(Student Option; Prereq: 60+ undergraduate credits, declared major, or instr consentWI)  
52062 001 DIS, 12:50-14:45 TTh, Peters Hall 80, In Person Term Based; Molly Rojas Collins ; 4 cr.

### 4196 Youthwork Internship

(Student Option; Prereq: Declaration of youth studies major, or instr consent)  
51594 001 FWK, 12:50-14:45 M, Peters Hall 280, In Person Term Based; Deborah Moore, Bao Lee-Yang ; 4 cr.

### 4301 Communicating With Adolescents About Sexuality

(Student Option; Prereq: YOST 1001 or instr consent)  
52194 001 LEC, 15:00-18:50 M, McNeal Hall 10, In Person Term Based; Meets With: 001 YOST 5301; Jessica Oliver-Tebben ; 3 cr.

### 4314 Theater Activities in Youthwork and Education

(Student Option; Prereq: 1001 or 2101)  
52017 001 LEC, 09:00-17:00 F, Student Center Theater, 10:00-17:00 Sa, McNeal Hall 10, 10:00-17:00 Sa, McNeal Hall 10, In Person Term Based; Meets With: 001 YOST 5314; Janice Mandell ; 2 cr.

### 4315 Youthwork in Schools

(Student Option; Prereq: Introductory course in education or instr consent)  
66585 001 LEC, 12:50-14:45 TTh, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5315; Rozlyn Anderson ; 4 cr.

### 4411 Youth Research and Youth Program Evaluation

(Student Option; Prereq: YoSt B.S. declaration & basic research methods course, or instr consent)  
51610 001 LEC, 10:40-12:35 TTh, Peters Hall 5, In Person Term Based; Deborah Moore ; 4 cr.

### 5032 Adolescent and Youth Development for Youthworkers

(Student Option; Prereq: [1001 or 2001 or 2002W or 2101], [any Psych or CPsy course])  
51649 001 LEC, 08:30-10:25 MW, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 3032; Alexander Fink ; 4 cr.

### 5291 Independent Study in Youth Studies

(Student Option; )  
51184 001 IND, Independent/Directed Study; Katie Johnston-Goodstar ; 1-8 cr.  
51563 002 IND, Independent/Directed Study; Ross VeLure Roholt ; 1-8 cr.  
51707 003 IND, Independent/Directed Study; Ceema Samimi ; 1-8 cr.  
69665 004 IND, Independent/Directed Study; Saida Abdi, Peggy Pond ; 1-8 cr.

### 5301 Communicating With Adolescents About Sexuality

(Student Option; Prereq: [Upper div AdPy course, exper working with youth] or instr consent)  
52195 001 LEC, 15:00-18:50 M, McNeal Hall 10, In Person Term Based; Meets With: 001 YOST 4301; Jessica Oliver-Tebben ; 3 cr.

### 5314 Theatre Activities in Youthwork and Education

(Student Option; Prereq: 1001 or 2101)  
52063 001 LEC, 09:00-17:00 F, Student Center Theater, 10:00-17:00 Sa, McNeal Hall 10, 10:00-17:00 Sa, McNeal Hall 10, In Person Term Based; Meets With: 001 YOST 4314; Janice Mandell ; 2 cr.

### 5315 Youthwork in Schools

(Student Option; Prereq: Introductory course in education or instr consent)  
66586 001 LEC, 12:50-14:45 TTh, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 4315; Rozlyn Anderson ; 4 cr.

### 5950 Ways of Knowing in Youth Development Leadership: Using Research and Evaluation to Support Community

(A-F only; )  
52323 001 DIS, 18:00-20:45 W, McNeal Hall 10, In Person Term Based; Katlin Okamoto ; 3 cr.

### 5954 Experiential Learning: Pedagogy for Community and Classroom

(Student Option; )  
51822 001 DIS, 18:00-20:45 T, Peters Hall 5, In Person Term Based; Terrance Ross ; 3 cr.

### 5958 Community: Context for Youth Development Leadership

(A-F or Audit; )  
51823 001 DIS, 18:00-20:45 M, Peters Hall 80, In Person Term Based; Hayley Tompkins ; 3 cr.

### 5960 Seminar in Youth Development Leadership

(S-N or Audit; Prereq: YDL student or instr consent)  
51824 001 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
51853 002 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
51854 003 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
51855 004 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
52098 005 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.

### 5962 Leadership Field Experience: Youth Development

(S-N only; Prereq: YDL student)  
51825 001 FWK, In Person Term Based; Deborah Moore ; 4 cr.