

## Academic Health Center Shared (AHS)

### 1101 Orientation to Health Careers

(Student Option No Audit; )  
13887 001 LEC, 15:35-16:25 M, Moos Health Sci Tower 2-530, In Person Term Based; Scott Simpson; 1 cr.

### 1102 Orientation to Health Careers

(Student Option No Audit; )  
13894 001 LEC, Completely Online; Fred Williams; 1 cr.

### 1600 The Future Physician I: Medicine in the 21st Century

(A-F only; )  
13940 001 LEC, 15:35-16:25 W, Phillips-Wangenstn Bldg 2-470, In Person Term Based; Andrew Slattengren, Tricia Todd; 1 cr.

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

(Student Option; Prereq: [1600 or 1601], instr consent)  
13939 001 FWK, 00:00-00:00 , ONLINE, Completely Online; Tricia Todd, Scott Simpson; 2 cr.

### 2400 Writing a Personal Statement

(S-N only; )  
14048 001 DIS, 14:30-15:20 T, Moos Health Sci Tower 2-565, In Person Term Based; Dana Lovold, Fred Williams; 1 cr.  
14053 003 DIS, 10:10-11:00 Th, Moos Health Sci Tower 2-565, In Person Term Based; Dana Lovold, Fred Williams; 1 cr.  
14095 002 DIS, 10:10-11:00 W, Moos Health Sci Tower 2-565, In Person Term Based; Dana Lovold, Scott Simpson; 1 cr.

## Accounting (ACCT)

### 2050 Introduction to Financial Reporting

(A-F or Audit; Prereq: Soph)  
22396 002 LEC, 12:20-14:00 MW, Hanson Hall 1-108, In Person Term Based; Gaoqing Zhang; 4 cr.  
22397 003 LEC, 14:30-16:10 MW, Hanson Hall 1-108, In Person Term Based; Gaoqing Zhang; 4 cr.  
22450 005 LEC, 12:20-14:00 TTh, Hanson Hall 1-108, In Person Term Based; Salman Arif; 4 cr.  
22451 006 LEC, 14:30-16:10 TTh, Hanson Hall 1-108, In Person Term Based; Salman Arif; 4 cr.  
22452 020 LEC, 17:45-21:05 W, Hanson Hall 1-102, In Person Term Based; Jacob Ott; 4 cr.  
22467 007 LEC, 10:10-11:50 TTh, Hanson Hall 1-108, In Person Term Based; Kendell Poch; 4 cr.  
22517 001 LEC, 10:10-11:50 MW, Hanson Hall 1-108, In Person Term Based; Pervin Shroff; 4 cr.  
22554 008 LEC, 08:00-09:40 MW, Hanson Hall 1-108, In Person Term Based; Thomas Batina; 4 cr.  
22617 021 LEC, 17:45-21:05 M, Hanson Hall 1-102, In Person Term Based; Xinyuan Shao; 4 cr.  
22867 009 LEC, 08:00-09:40 MW, Carlson School of Mgmt L-110, In Person Term Based; Paul White; 4 cr.

### 3001 Introduction to Management

**Accounting**  
(A-F or Audit; Prereq: 2050)  
22399 002 LEC, 14:30-15:45 MW, Hanson Hall 1-106, In Person Term Based; Clayton Forester; 3 cr.  
22400 003 LEC, 16:00-17:15 MW, Hanson Hall 1-106, In Person Term Based; Clayton Forester; 3 cr.  
22401 020 LEC, 17:45-20:15 T, Hanson Hall 1-104, In Person Term Based; Kendell Poch; 3 cr.  
22611 004 LEC, 09:45-11:00 TTh, Hanson Hall 1-106, In Person Term Based; Clayton Forester; 3 cr.  
22703 001 LEC, 11:15-12:30 MW, Hanson Hall 1-104, In Person Term Based; Clayton Forester; 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)  
22421 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-135, In Person Term Based; Michael Iselin; 4 cr.  
22422 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-135, In Person Term Based; Nick Biondich; 4 cr.  
22572 003 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-135, In Person Term Based; Michael Iselin; 4 cr.  
22573 004 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Haiwen Zhang; 4 cr.  
22612 005 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Haiwen Zhang; 4 cr.

### 5102 Intermediate Accounting II

(A-F or Audit; Prereq: 5101 [mgmt or grad mgmt student])  
22423 003 LEC, 15:45-17:25 MW, Carlson School of Mgmt 1-143, In Person Term Based; Tjomme Rusticus; 4 cr.  
22684 002 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-142, In Person Term Based; Tjomme Rusticus; 4 cr.  
22868 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Nick Biondich; 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])  
22424 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 1-127, In Person Term Based; Thomas Batina; 4 cr.  
22425 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-219, In Person Term Based; John Grayson; 4 cr.  
22756 003 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-219, In Person Term Based; John Grayson; 4 cr.

### 5126 Internal Auditing

(A-F or Audit; Prereq: 2050)  
22880 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Thomas Batina; 4 cr.

### 5135 Fundamentals of Federal Income Tax

(A-F or Audit; Prereq: [2050 or MBA 6030], [mgmt or grad mgmt student])  
22426 001 LEC, 12:20-14:00 MW, Hanson Hall 1-105, In Person Term Based; Tammy Naples; 4 cr.  
22427 020 LEC, 17:45-21:05 M, Carlson School of Mgmt 2-213, In Person Term Based; Tammy Naples; 4 cr.

### 5160 Financial Statement Analysis

(A-F or Audit; Prereq: [5100/6100 or 3101/5101], [accounting or finance major])  
22501 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Kendell Poch; 2 cr.  
22528 020 LEC, 17:45-21:05 Th, Carlson School of Mgmt L-114, In Person Term Based; Kendell Poch; 2 cr.  
22641 002 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-132, In Person Term Based; Kendell Poch; 2 cr.  
33864 021 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-149, In Person Term Based; Kendell Poch; 2 cr.

### 5201 Intermediate Management Accounting

(A-F or Audit; Prereq: 3001, acct or finance major)  
22507 001 LEC, 12:20-14:00 TTh, Carlson School of Mgmt 1-114, In Person Term Based; Paul White; 2 cr.  
22869 002 LEC, 12:20-14:00 TTh, Carlson School of Mgmt L-126, In Person Term Based; Paul White; 2 cr.

### 5236 Introduction to Taxation of Business

(A-F or Audit; Prereq: 5135, acct major)  
22502 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-132, In Person Term Based; Roger Conlon; 2 cr.

### 5320 Financial Reporting Data Analytics

(A-F only; )  
34718 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-224, In Person Term Based; Haiwen Zhang; 2 cr.

### 5420 MAcc directed study

(Student Option; Prereq: MAcc student)  
22575 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; )  
29813 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Elizabeth Bassett; 2 cr.  
29814 302 LEC, 00:00-00:00 , ONLINE, Completely Online; Heidi Kammer-Hodge; 2 cr.

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

(A-F only; )  
29810 001 LEC, 16:00-19:40 M, Magrath Library 4, In Person Term Based; Laura Boisen; 3 cr.

### 5061 Foundations of Group Work

(A-F only; )  
29864 001 LEC, 12:30-15:30 Th, Ruttan Hall B42, In Person Term Based; Fiyaz Karim; 3 cr.

### 5071 Foundations of Co-occurring

**Disorders**  
(A-F only; )  
29815 301 LEC, Completely Online; Ann Becher-Ingwalson; 2 cr.

### 5081 Multicultural Foundations of Behavioral Health

(A-F only; )  
29862 001 LEC, 12:30-15:30 W, Ruttan Hall B36, In Person Term Based; Fiyaz Karim; 3 cr.

### 5091 Assessment and Treatment Planning I

(A-F only; )  
29861 001 LEC, 17:30-20:10 W, Ruttan Hall B26, In Person Term Based; Elizabeth Bassett; 3 cr.

### 5121 Professional Seminar 1: Internship Prep

(S-N only; )  
29877 001 LEC, 15:30-17:00 M, Magrath Library 6, 15:30-17:00 M, Magrath Library 6, 15:30-17:00 M, Magrath Library 6, 15:30-17:00 M, Magrath Library 6, In Person Term Based; Debra Wamsley; 1 cr.

### 5993 Directed Study

(Student Option; Prereq: dept consent)  
29887 001 IND, In Person Term Based; 1-3 cr.

### 5996 Internship in Behavioral Health

(S-N only; )  
29869 001 IND, 17:30-19:00 M, Ruttan Hall B26, 17:30-19:00 M, Ruttan Hall B26, 17:30-19:00 M, Ruttan Hall B26, 17:30-19:00 M, Ruttan Hall B26, 17:30-19:00 M, Ruttan Hall B26, 17:30-19:00 M, Ruttan Hall B26, In Person Term Based; Debra Wamsley; 1-4 cr.

## Adult Psychiatry (ADPY)

### 5515 Neuropsychology: University Hospitals

(O-N or Audit; )  
27656 001 LEC, 00:00-00:00 , In Person Term Based; 3-9 cr.  
27657 002 LEC, 00:00-00:00 , In Person Term Based; 3-9 cr.

## Aerospace Engineering and Mech (AEM)

### 1301 Ballooning: Design, Build, and Fly

(Student Option No Audit; )  
27012 001 LEC, 15:35-17:30 T, Akerman Hall 327, In Person Term Based; James Flaten; 2 cr.

### 2011 Statics

(A-F or Audit; Prereq: PHYS 1301W, [concurrent registration is required (or allowed) in Math 2374 or equiv], CSE)  
24312 001 LEC, 09:05-09:55 MWF, Keller Hall 3-210, In Person Term Based; Todd Hesla; 3 cr.  
24313 002 DIS, 10:10-11:00 T, Appleby Hall 11, In Person Term Based; 3 cr.  
24314 003 DIS, 11:15-12:05 T, Akerman Hall 327, In Person Term Based; 3 cr.  
24315 004 DIS, 14:30-15:20 T, Akerman Hall 317, In Person Term Based; 3 cr.  
24316 005 DIS, 08:00-08:50 T, Akerman Hall 211, In Person Term Based; 3 cr.  
26874 006 DIS, 15:35-16:25 T, Akerman Hall 317, 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)  
24317 001 LEC, 11:15-12:05 MWF, Rapson Hall 43, In Person Term Based; Ryan Caverly; 3 cr.  
24318 002 DIS, 12:20-13:10 T, Cooke Hall 215, In Person Term Based; 3 cr.  
24319 003 DIS, 13:25-14:15 T, Akerman Hall 317, 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)  
24320 001 LEC, 12:20-13:10 MTWF, Fraser Hall 101, In Person Term Based; Todd Hesla; 4 cr.  
24322 002 DIS, 11:15-12:05 Th, Akerman Hall 317, In Person Term Based; 4 cr.  
24323 003 DIS, 12:20-13:10 Th, Akerman Hall 317, In Person Term Based; 4 cr.

24324 004 DIS, 14:30-15:20 Th, Akerman Hall 317, In Person Term Based; 4 cr.  
 24325 005 DIS, 15:35-16:25 Th, Akerman Hall 327, In Person Term Based; 4 cr.  
 24632 006 DIS, 10:10-11:00 Th, Cooke Hall 215, In Person Term Based; 4 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)

24326 001 LEC, 13:25-14:15 MWF, Bruininks Hall 220, In Person Term Based; Perry Leo ; 3 cr.  
 24327 002 DIS, 10:10-11:00 Th, Akerman Hall 313, In Person Term Based; 3 cr.  
 24328 003 DIS, 13:25-14:15 Th, Akerman Hall 317, In Person Term Based; 3 cr.  
 24329 004 DIS, 14:30-15:20 Th, Akerman Hall 327, In Person Term Based; 3 cr.  
 24330 005 DIS, 15:35-16:25 Th, Akerman Hall 317, In Person Term Based; 3 cr.  
 25926 006 DIS, 11:15-12:05 Th, Vincent Hall 1, In Person Term Based; 3 cr.

**3101 Mathematical Modeling and Simulation in Aerospace Engineering**

(A-F only; Prereq: [MATH 2373 or equiv], AEM major)  
 26293 001 LEC, 09:05-09:55 WF, Mechanical Engineering 18, In Person Term Based; Joseph Mueller ; 2 cr.

**4201 Fluid Mechanics**

(A-F or Audit; Prereq: 2012, [Math 2373 or equiv], [Math 2374 or equiv], [CSE upper div or grad student])  
 24333 001 LEC, 10:10-12:05 MW, Mayo Bldg & Additions C231, In Person Term Based; Joseph Nichols ; 4 cr.

**4253 Computational Fluid Mechanics**

(A-F or Audit; Prereq: 4201, CSCI 1113, CSE upper division)  
 26535 001 LEC, 09:45-11:00 TTh, Folwell Hall 108, In Person Term Based; Meets With: 001 AEM 5253; Joseph Nichols ; 3 cr.

**4293 Directed Studies in Fluid Mechanics**

(Student Option; Prereq: dept consent)  
 35525 001 IND, In Person Term Based; 1-3 cr.

**4295 Problems in Fluid Mechanics**

(Student Option; Prereq: dept consent)  
 27148 001 IND, In Person Term Based; 1-3 cr.

**4321 Automatic Control Systems**

(A-F or Audit; Prereq: CSE upper div or grad student)  
 25799 001 LEC, 13:25-14:15 MWF, Keller Hall 3-210, In Person Term Based; Meets With: 001 EE 4231; Peter Seiler Jr ; 3 cr.

**4331 Aerospace Vehicle Design**

(A-F only; Prereq: [2301, 4202, AEM sr] or instr consent)  
 24331 001 LEC, 15:35-16:25 MWF, Bruininks Hall 312, In Person Term Based; John Weyrauch, Chris Regan ; 4 cr.  
 24633 002 DIS, 16:40-17:30 MW, Akerman Hall 313, In Person Term Based; 4 cr.  
 24634 003 DIS, 16:40-17:30 MW, Akerman Hall 215, In Person Term Based; 4 cr.  
 25495 004 DIS, 16:40-17:30 MW, Akerman Hall 211, In Person Term Based; 4 cr.  
 25496 005 DIS, 16:40-17:30 MW, Akerman Hall 227, In Person Term Based; 4 cr.

**4493 Directed Studies in Aerospace Systems**

(Student Option; Prereq: dept consent)  
 35471 001 IND, In Person Term Based; 1-3 cr.

**4502 Computational Structural Analysis**

(Student Option; Prereq: [Grade of at least C in 4501, [CSE upper div or grad student]] or instr consent)  
 33389 001 LEC, 14:30-15:45 TTh, Akerman Hall 215, In Person Term Based; Eilad Tadmor ; 3 cr.

**4595 Problems in Mechanics and Materials**

(Student Option; Prereq: dept consent)  
 24332 001 IND, 00:00-00:00 , Independent/Directed Study; 1-3 cr.

**4602W Aeromechanics Laboratory**

(A-F or Audit; Prereq: 4201, 4501, 4601, [WRIT 1301 or equiv], [CSE upper div or grad]WI)  
 24635 001 LEC, 14:30-15:20 MW, Akerman Hall 209, In Person Term Based; Filippo Coletti ; 4 cr.

24636 002 LAB, 08:00-11:00 T, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.  
 24637 003 LAB, 11:15-14:15 T, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.  
 24638 004 LAB, 14:30-17:30 T, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.  
 24639 005 LAB, 08:00-11:00 Th, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.  
 24640 006 LAB, 11:15-14:15 Th, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.  
 25949 007 LAB, 14:30-17:30 Th, Akerman Hall 25, In Person Term Based; Filippo Coletti ; 4 cr.

**4796 Professional Experience**

(A-F or Audit; Prereq: CSE upper div, AEM major, dept consent)  
 24842 001 FWK, 00:00-00:00 , In Person Term Based; Thomas Schwartztruber ; 3 cr.

**4896 International Professional Experience**

(A-F only; Prereq: CSE upper div, AEM major, dept consent)  
 26208 001 FWK, 00:00-00:00 , Independent/Directed Study; Thomas Schwartztruber ; 3 cr.

**5253 Computational Fluid Mechanics**

(A-F or Audit; Prereq: [4201 or equiv], [CSci 1113 or equiv], CSE grad student)  
 26521 001 LEC, 09:45-11:00 TTh, Folwell Hall 108, In Person Term Based; Meets With: 001 AEM 4253; Joseph Nichols ; 3 cr.

**5321 Modern Feedback Control**

(Student Option; Prereq: 4321 or EE 4231 or ME 5281 or equiv)  
 24453 001 LEC, 14:30-15:45 MW, Mechanical Engineering 212, In Person Term Based; Meets With: 001 EE 5231; Donatello Materassi ; 3 cr.  
 26537 883 LEC, 14:30-15:45 MW, ONLINE, Completely Online; Donatello Materassi ; 3 cr.

**5401 Intermediate Dynamics**

(A-F or Audit; Prereq: CSE upper div or grad, 2012, Math 2243)  
 24432 001 LEC, 11:15-12:05 MWF, Folwell Hall 108, In Person Term Based; Yohannes Ketema ; 3 cr.

**5451 Optimal Estimation**

(Student Option; Prereq: [[MATH 2243 or STAT 3021 or equiv], [4321 or EE 4231 or ME 5281 or equiv]] or instr consent)  
 25771 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 EE 5251; Demoz Gebre Egziabher ; 3 cr.  
 26540 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; Demoz Gebre Egziabher ; 3 cr.

**5501 Continuum Mechanics**

(Student Option; Prereq: CSE upper div or grad, 3031, Math 2243 or equiv or instr consent)  
 24435 001 LEC, 14:30-15:45 MW, Akerman Hall 227, In Person Term Based; Richard James ; 3 cr.

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

(S-N or Audit; )  
 30012 001 LAB, 16:00-18:00 Th, Armory Building 116, In Person Term Based; Justin Mason ; 1 cr.  
 30018 002 LAB, In Person Term Based; Justin Mason ; 1 cr.

**1104 Heritage and Values of the United States Air Force**

(A-F or Audit; )  
 30005 001 LEC, 11:10-12:00 Th, Armory Building 105, In Person Term Based; Daniel Hatzung ; 1 cr.  
 30006 002 LEC, 15:00-15:50 Th, Armory Building 105, In Person Term Based; Daniel Hatzung ; 1 cr.  
 30020 003 LEC, In Person Term Based; Daniel Hatzung ; 1 cr.  
 35636 004 LEC, In Person Term Based; Daniel Hatzung ; 1 cr.

**1204 The Evolution of USAF Air and Space Power I**

(A-F or Audit; )  
 30007 001 LEC, 13:25-14:15 T, Armory Building 105, In Person Term Based; Justin Mason ; 1 cr.  
 30019 002 LEC, 10:10-11:00 T, Armory Building 105, In Person Term Based; Christopher Hughes ; 1 cr.  
 30072 003 LEC, In Person Term Based; Christopher Hughes ; 1 cr.

**3301 Air Force Leadership, Quality, and Communication**

(A-F or Audit; )  
 30022 001 LEC, 05:30-08:20 M, Room TBA, In Person Term Based; Justin Mason ; 3 cr.  
 30023 002 LEC, In Person Term Based; Justin Mason ; 3 cr.

**3401 National Security Policy**

(A-F or Audit; )  
 30011 001 LEC, 05:30-08:00 W, Armory Building 202, In Person Term Based; Frederick Freeman ; 3 cr.

**African Amer & African Studies (AFRO)****1911 Black Reality Television**

(Student Option No Audit; DSJ)  
 21075 001 DIS, 09:45-11:00 TTh, Blegen Hall 335, In Person Term Based; Terrion Williamson ; 3 cr.

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

(A-F or Audit; )  
 33794 001 LEC, 13:25-14:15 MWF, Blegen Hall 210, In Person Term Based; Victoria Coifman ; 3 cr.

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

(A-F or Audit; WI)  
 19853 001 LEC, 13:00-14:15 MW, Blegen Hall 430, In Person Term Based; Rose Brewer ; 3 cr.

**3301 The Music of Black Americans**

(Student Option; AH,DSJ)  
 21130 001 LEC, 09:45-11:00 MW, Blegen Hall 140, In Person Term Based; Yolanda Williams ; 3 cr.

**3432 Modern Africa in a Changing World**

(Student Option; GP,HIS)  
 19315 001 LEC, 09:45-11:00 TTh, Blegen Hall 240, In Person Term Based; Meets With: 001 HIST 3432; Gabriele Payne ; 3-4 cr.

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

(A-F only; AH,GP)  
 21074 001 DIS, 11:15-12:30 MW, Blegen Hall 115, In Person Term Based; Njeri Githire ; 3 cr.

**3598W Introduction to African American Literature and Culture II**

(Student Option; DSJ,WI,LITR)  
 33984 001 LEC, 11:15-13:10 TTh, Blegen Hall 330, In Person Term Based; Meets With: 001 ENGL 3598W; Nathaniel Mills ; 4 cr.

**3601W African Literature**

(A-F only; GP,WI,LITR)  
 32974 001 DIS, 11:15-12:30 TTh, Blegen Hall 335, In Person Term Based; Agnes Schaffauser ; 3 cr.

**3654 African Cinema**

(A-F only; AH,GP)  
 32980 001 DIS, 09:45-11:00 MW, Blegen Hall 115, In Person Term Based; Njeri Githire ; 3 cr.

**3866 The Civil Rights and Black Power Movement, 1954-1984**

(Student Option; )  
 17962 001 LEC, 18:00-20:45 W, Blegen Hall 255, In Person Term Based; Meets With: 001 AFRO 5866001 HIST 3856001 PA 5490; Keith Mayes ; 3 cr.

**3993 Directed Study**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
 16850 001 IND, 00:00-00:00 , In Person Term Based; 1-5 cr.

**4105 Ways of Knowing in Africa and the African Diaspora**

(A-F only; )  
 18651 001 LEC, 16:00-18:45 M, Blegen Hall 430, In Person Term Based; Rose Brewer ; 3 cr.

**4406 Black Feminist Thought**

(Student Option; )  
 35177 001 DIS, 09:45-11:00 TTh, Ford Hall 400, In Person Term Based; Meets With: 001 GWSS 4406001 GWSS 5406001 AFRO 5406; Zenzele Isoke ; 3 cr.

**4991W Thesis Research and Writing**

(A-F or Audit; Prereq: dept consentWI)  
17929 001 IND, 00:00-00:00 , , In Person Term Based;  
Yuichiro Onishi, Keith Mayes ; 3 cr.

**5101 Seminar: Introduction to Africa and the African Diaspora**

(Student Option; )  
20211 001 LEC, 18:00-20:45 Th, Blegen Hall 430, In Person Term Based; Keith Mayes, Jacob Oertel ; 3 cr.

**5406 Black Feminist Thought**

(Student Option; )  
35178 001 DIS, 09:45-11:00 TTh, Ford Hall 400, In Person Term Based; Meets With: 001 GWSS 4406001 GWSS 5406001 AFRO 4406; Zenzele Isoke ; 3 cr.

**5625 Women Writers of Africa and the African Diaspora**

(Student Option; )  
32973 001 DIS, 14:45-17:30 T, Blegen Hall 225, In Person Term Based; Njeri Githire ; 3 cr.

**5866 The Civil Rights and Black Power Movement, 1954-1984**

(A-F or Audit; )  
19711 001 LEC, 18:00-20:45 W, Blegen Hall 255, In Person Term Based; Meets With: 001 AFRO 3866001 HIST 3856001 PA 5490; Keith Mayes ; 3 cr.

**5993 Directed Study**

(Student Option; Prereq: instr consent)  
17579 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**Ag Educ, Comm & Mktg (AECM)****1001 Introduction to Agricultural Education, Communication & Marketing**

(Student Option; )  
21561 001 LEC, 11:45-12:35 T, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 001 APEC 1001; Garrett Steede, Frances Homans ; 1 cr.  
22258 002 DIS, 11:45-12:35 Th, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 002 APEC 1001; Frances Homans, Garrett Steede ; 1 cr.

**2051 Current Technical Competencies**

(Student Option; )  
21560 001 LAB, 15:00-17:15 TTh, Facilities Management Bldg 228, In Person Term Based; Lee Thompson ; 3 cr.

**2096 Career Exploration & Early Field Experience in Agricultural Education, Communication, and Marketing**

(A-F only; )  
22253 001 LEC, 13:00-15:00 F, Lrng & Environmental Sci 230, 13:00-15:00 F, Lrng & Environmental Sci 230, 13:00-15:00 F, Lrng & Environmental Sci 230, In Person Term Based; Amy Smith, Rebecca Swenson ; 2 cr.

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

(A-F or Audit; WI)  
22014 001 LEC, 10:40-11:30 MW, Ruttan Hall B45, In Person Term Based; Rebecca Swenson ; 3 cr.  
22015 002 DIS, 09:35-10:25 F, Ruttan Hall B26, In Person Term Based; Rebecca Swenson ; 3 cr.  
22039 003 DIS, 10:40-11:30 F, Ruttan Hall B26, In Person Term Based; Rebecca Swenson ; 3 cr.  
22040 004 DIS, 10:40-11:30 F, Ruttan Hall B22, In Person Term Based; Rebecca Swenson ; 3 cr.  
22379 005 DIS, 11:45-12:35 F, Ruttan Hall B22, In Person Term Based; Rebecca Swenson ; 3 cr.

**3096 Experiential Learning: Production and Business**

(Student Option; Prerequisite to higher level courses in technical agriculture and agricultural business. prereq: AgEd major, instr consent)  
21847 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Rebecca Swenson ; 1-3 cr.

**3112 Building Construction Technology**

(A-F or Audit; )  
21563 001 LAB, 11:45-14:15 TTh, Facilities Management Bldg 228, In Person Term Based; Lee Thompson ; 3 cr.

**3452 Digital Media Essentials for Agriculture, Food and the Environment**

(A-F only; )  
33819 001 LEC, 11:45-13:00 MW, Lrng & Environmental Sci 230, In Person Term Based; Troy McKay ; 3 cr.

**3462 Podcasting for Science Literacy**

(A-F only; )  
33820 001 LEC, 13:30-14:45 MW, Lrng & Environmental Sci 230, In Person Term Based; Troy McKay ; 3 cr.

**3993 Undergraduate Directed Study in Agricultural Education, Communication & Marketing**

(Student Option; )  
22283 001 IND, In Person Term Based; Amy Smith ; 1-4 cr.  
22284 002 IND, In Person Term Based; Rebecca Swenson ; 1-4 cr.  
22285 003 IND, In Person Term Based; Lavyne Rada ; 1-4 cr.

**4444 Food and Agricultural Marketing Campaigns**

(A-F only; )  
33821 001 LEC, 10:15-11:30 TTh, Lrng & Environmental Sci 230, In Person Term Based; Garrett Steede ; 3 cr.

**4450W Advanced Agricultural Journalism and Persuasive Writing for Ag, Food & Environmental Sciences**

(A-F or Audit; WI)  
22257 001 LEC, 13:30-14:45 TTh, Lrng & Environmental Sci 230, In Person Term Based; Garrett Steede ; 3 cr.

**5110 Foundations of Agricultural Education**

(A-F only; )  
33573 001 LEC, 15:00-16:15 MW, Lrng & Environmental Sci 220, In Person Term Based; Amy Smith ; 3 cr.

**5111W Agricultural Education: Methods of Teaching**

(Student Option; WI)  
21562 001 LEC, 12:50-14:45 MW, Lrng & Environmental Sci 220, In Person Term Based; Richard Joerger ; 4 cr.

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

(Student Option; )  
21966 001 LEC, 00:00-00:00 , , In Person Term Based; Brad Greiman ; 1-3 cr.

**5697 Teaching Internship: School and Classroom Setting**

(Student Option; Prereq: WHRE 5696 for initial licensure program)  
21944 001 LEC, 09:00-10:55 T, Ruttan Hall 135B, In Person Term Based; Amy Smith ; 2 cr.

**5993 Directed Study in Agricultural Education and Extension**

(Student Option; )  
21648 001 IND, 00:00-00:00 , , Independent/Directed Study; Amy Smith ; 1-4 cr.  
21949 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; )  
21559 001 IND, 00:00-00:00 , , Independent/Directed Study; Amy Smith ; 1-5 cr.  
21950 002 IND, 00:00-00:00 , , Independent/Directed Study; Rebecca Swenson ; 1-5 cr.

**Agronomy and Plant Genetics (AGRO)****1093 Directed Studies**

(Student Option; Prereq: 4 cr in agronomy, instr consent)  
21687 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Smith ; 1-4 cr.

**1103 Crops, Environment, and Society**

(Student Option; ENV)  
21629 001 LEC, 10:15-11:30 TTh, Borlaug Hall 335, In Person Term Based; Craig Sheaffer ; 4 cr.  
21630 003 LAB, 12:50-14:45 T, Plant Growth Facility 103, In Person Term Based; Craig Sheaffer ; 4 cr.

21631 004 LAB, 15:00-16:55 T, Plant Growth Facility 103, In Person Term Based; Craig Sheaffer ; 4 cr.  
21632 002 LAB, 13:55-15:50 M, Plant Growth Facility 103, In Person Term Based; Craig Sheaffer ; 4 cr.

**1660W First-Year Colloquium/Experience in Agroecosystems Analysis**

(A-F or Audit; Prereq: 1st yr in major hosted by Department of Agronomy and Plant GeneticsWI)  
21837 001 LEC, 15:00-16:55 W, Plant Growth Facility 140A/B, In Person Term Based; Kevin Smith ; 2 cr.

**2402 The Science of Cannabis**

(A-F only; )  
35124 001 LEC, 15:00-16:50 W, Kaufert Laboratory 302, In Person Term Based; Mary Brakke, Peter Morrell ; 2 cr.

**2501 Plant Identification for Urban and Rural Landscapes**

(Student Option; Prereq: Biol 1009 or equiv)  
22291 001 LEC, 13:55-14:45 Th, Plant Growth Facility 132, In Person Term Based; Bev Durgan ; 1 cr.  
22292 002 LAB, 14:45-16:45 Th, Plant Growth Facility 132, In Person Term Based; Bev Durgan ; 1 cr.

**3305 Agroecosystems of the world**

(Student Option; GP)  
22151 001 DIS, 08:45-10:00 TTh, Borlaug Hall 306, In Person Term Based; Mary Brakke ; 3 cr.

**4093 Directed Studies for Advanced Students**

(Student Option; Prereq: 15 cr in agronomy, instr consent)  
22270 001 IND, In Person Term Based; Jochum Wiersma ; 1-4 cr.

**4096W Professional Experience Program: Internships**

(A-F only; WI)  
21641 001 LEC, 00:00-00:00 , , In Person Term Based; Mary Brakke ; 2 cr.

**4097W Undergraduate Research Thesis**

(S-N only; Prereq: Jr or SrWI)  
21956 001 IND, 00:00-00:00 , , Independent/Directed Study; Kevin Smith ; 2 cr.

**4605 Strategies for Agricultural Production and Management**

(Student Option; Prereq: 1101 or equivalent, [CHEM1015/17 or equivalent], SOIL1125 or equivalent), [jr or sr or grad student or instr consent])  
22145 001 LEC, 08:30-09:20 MW, Borlaug Hall 306, In Person Term Based; Jacob Jungers ; 3 cr.  
22146 002 DIS, 09:35-10:25 W, Borlaug Hall 306, In Person Term Based; Jacob Jungers ; 3 cr.

**4888 Issues in Sustainable Agriculture**

(Student Option; Prereq: 1103, Soil 1125 or 2125 or equiv)  
21835 001 LEC, 11:45-13:40 Th, Borlaug Hall 306, In Person Term Based; Meets With: 001 SAGR 8010; Craig Sheaffer, Helene Murray ; 2 cr.

**5021 Plant Breeding Principles**

(Student Option; )  
22193 001 LEC, 10:15-11:30 TTh, Borlaug Hall 306, In Person Term Based; James Anderson ; 3 cr.

**5311 Research Methods in Crop Improvement and Production**

(S-N or Audit; Prereq: applied plant sciences grad)  
21776 001 DIS, 08:00-10:00 , , In Person Term Based; James Anderson ; 1 cr.

**5999 Special Topics: Workshop in Agronomy**

(Student Option; )  
34995 001 LEC, In Person Term Based; Paul Porter ; 1-6 cr.

**Akkadian (AKKA)****American Indian Studies (AMIN)**

**1001 Introduction to American Indian & Indigenous Peoples**  
(Student Option; DSJ)

33327 001 DIS, 09:45-11:00 TTh, Scott Hall 4, In Person  
Term Based; Alex Ghebregzi ; 3 cr.

### 1002 Indigenous Peoples in Global Perspective

(A-F or Audit; GP)

20116 002 LEC, 11:15-12:30 TTh, Peik Hall 28, In Person  
Term Based; Meets With: 001 POL 1019; Karen Bauer ; 3 cr.

### 1003 American Indians in Minnesota

(A-F or Audit; DSJ,HIS)

17941 001 LEC, 11:15-12:30 MW, Anderson Hall 370, In  
Person Term Based; Alex Ghebregzi ; 3 cr.

19495 002 LEC, 13:00-14:15 MW, Anderson Hall 370, In  
Person Term Based; Alex Ghebregzi ; 3 cr.

19708 003 LEC, 13:00-14:15 TTh, Nicholson Hall 145, In  
Person Term Based; Neil McKay ; 3 cr.

### 1912 Strange Spirits: Monsters, Star Beings, and Other Mysterious Creatures in American Indian Literature

(A-F only; )

33328 001 DIS, 09:45-11:00 MW, Nicholson Hall 120, In  
Person Term Based; Carter Meland ; 3 cr.

### 3001 Public History

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

34106 001 LEC, 17:00-19:30 T, Blegen Hall 235, In Person  
Term Based; Meets With: 090 HIST 3001001 AMST 3003;  
Kevin Murphy ; 3 cr.

### 3141 American Indian Language Planning

(A-F or Audit; )

19614 001 LEC, 10:10-11:00 MWF, Kolthoff Hall 137, In  
Person Term Based; Meets With: 001 AMIN 5141; Zoe  
Brown ; 3 cr.

### 3201W American Indian Literature

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

17613 002 LEC, 09:45-11:00 TTh, Burton Hall 125, In Person  
Term Based; Carter Meland ; 3 cr.

18263 003 LEC, 11:15-12:30 MW, Nicholson Hall 335, In  
Person Term Based; Sasha Suarez ; 3 cr.

### 3301 American Indian Philosophies

(Student Option; AH,DSJ)

18264 002 LEC, 09:45-11:00 MW, Scott Hall 4, In  
Person Term Based; Meets With: 002 RELS 3321; Alex  
Ghebregzi ; 3 cr.

### 3312 American Indian Environmental Issues and Ecological Perspectives

(Student Option; ENV)

20514 001 LEC, 11:15-14:15 Th, Bruininks Hall 530A, In  
Person Term Based; Vicente Diaz ; 3 cr.

### 3402 American Indians and the Cinema

(A-F or Audit; AH,DSJ)

21240 001 LEC, 13:00-15:20 M, Nicholson Hall 335, In  
Person Term Based; Carter Meland ; 3 cr.

### 3409 American Indian Women:

**Ethnographic and Ethnohistorical Perspectives**

(Student Option; DSJ,HIS)

20113 001 DIS, 13:25-15:20 T, Burton Hall 123, In Person  
Term Based; Meets With: 001 AMIN 5409; Christine  
DeLisle ; 3 cr.

### 3602 Archaeology and Native Americans

(Student Option; DSJ)

34725 001 LEC, 09:30-12:00 F, Anderson Hall 230, In  
Person Term Based; Meets With: 001 ANTH 3601001  
ANTH 5601001 AMIN 5602; Kat Hayes ; 3 cr.

### 3872 American Indian History: 1830 to the Present

(Student Option; DSJ,HIS)

21303 001 LEC, 16:00-18:30 W, Blegen Hall 240, In Person  
Term Based; Meets With: 001 HIST 3872; Jean O'Brien ; 3 cr.

### 3920 American Indian Studies Topics

(A-F or Audit; )

33330 001 LEC, 13:25-15:20 W, Amundson Hall 120, In  
Person Term Based; Vicente Diaz ; 3 cr.

### 4820W Senior Seminar

(A-F only; WI)

19955 001 IND, 13:00-15:45 W, Lind Hall 216, In Person  
Term Based; Brenda Child ; 3 cr.

### 4994 Directed Research

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

18342 001 IND, 00:00-00:00 , , Independent/Directed Study;  
1-12 cr.

### 4996 Field Study

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

17516 001 FWK, 00:00-00:00 , , In Person Term Based; Zoe  
Brown ; 1-12 cr.

### 5141 American Indian Language Planning

(A-F or Audit; Prereq: 3103 or 3123 or instr consent)

19615 001 LEC, 10:10-11:00 MWF, Kolthoff Hall 137, In  
Person Term Based; Meets With: 001 AMIN 3141; Zoe  
Brown ; 3 cr.

### 5409 American Indian Women:

**Ethnographic and Ethnohistorical Perspectives**

(Student Option; DSJ,HIS)

20114 001 DIS, 13:25-15:20 T, Burton Hall 123, In Person  
Term Based; Meets With: 001 AMIN 3409; Christine  
DeLisle ; 3 cr.

### 5602 Archaeology and Native Americans

(Student Option; DSJ)

34726 001 LEC, 09:30-12:00 F, Anderson Hall 230, In  
Person Term Based; Meets With: 001 ANTH 3601001  
ANTH 5601001 AMIN 3602; Kat Hayes ; 3 cr.

### 5890 Readings in American Indian and Indigenous History

(Student Option; Prereq: Advanced undergrad with  
instr consent or grad student)

21302 001 LEC, 15:35-17:30 T, Walter W Heller Hall 1229,  
In Person Term Based; Meets With: 001 HIST 5890; Jean  
O'Brien ; 3 cr.

## American Sign Language (ASL)

### 1701 American Sign Language I

(Student Option; )

15270 001 DIS, Completely Online; Jonathan Penny ; 5 cr.  
15271 002 DIS, Completely Online; Sherri Rademacher ; 5 cr.  
15272 003 DIS, 08:30-10:25 MW, Lrng & Environmental Sci  
140C, In Person Term Based; Marissa Polvere ; 5 cr.  
15273 004 DIS, 10:40-12:35 MW, Lrng & Environmental Sci  
140C, In Person Term Based; Bradley Hardin ; 5 cr.  
15274 005 DIS, 12:50-14:45 MW, Lrng & Environmental Sci  
140C, In Person Term Based; Shirley Applebee ; 5 cr.  
16145 007 DIS, 12:50-14:45 TTh, Lrng & Environmental Sci  
140C, In Person Term Based; Bradley Neubarth ; 5 cr.  
16248 008 DIS, 15:00-16:55 TTh, Lrng & Environmental Sci  
140C, In Person Term Based; Shirley Applebee ; 5 cr.  
16355 009 DIS, 17:10-21:00 T, Lrng & Environmental Sci  
140C, In Person Term Based; Sherri Rademacher ; 5 cr.  
16712 006 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci  
140C, In Person Term Based; Shirley Applebee ; 5 cr.

### 1702 American Sign Language II

(Student Option; Prereq: 1701 with grade of at least [S  
or C-] or dept consent)

15275 001 DIS, Completely Online; Marissa Polvere ; 5 cr.  
15276 003 DIS, 08:30-10:25 MW, Lrng & Environmental Sci  
140B, In Person Term Based; Shirley Applebee ; 5 cr.  
15487 004 DIS, 10:40-12:35 MW, Lrng & Environmental Sci  
140A, In Person Term Based; Jonathan Penny ; 5 cr.  
15757 005 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci  
140A, In Person Term Based; Daniel Pfaff ; 5 cr.  
16276 006 DIS, 12:50-14:45 TTh, Lrng & Environmental Sci  
140A, In Person Term Based; Sherri Rademacher ; 5 cr.  
16388 007 DIS, 17:10-21:00 T, Lrng & Environmental Sci  
140B, In Person Term Based; Leah Dolezal ; 5 cr.  
34088 002 DIS, Completely Online; Bradley Hardin ; 5 cr.

### 3703 American Sign Language III

(Student Option; Prereq: 1702 with grade of at least [S  
or C-] or dept consent)

15277 002 DIS, 12:50-14:45 MW, Lrng & Environmental Sci  
140A, In Person Term Based; Bradley Neubarth ; 5 cr.  
15278 004 DIS, 17:10-21:00 M, Lrng & Environmental Sci  
140B, In Person Term Based; Bradley Neubarth ; 5 cr.  
15488 001 DIS, 10:40-12:35 MW, Lrng & Environmental Sci  
140B, In Person Term Based; Leah Dolezal ; 5 cr.  
15489 005 DIS, 08:30-10:25 TTh, Lrng & Environmental Sci  
140B, In Person Term Based; Marissa Polvere ; 5 cr.  
15967 006 DIS, 12:50-14:45 TTh, Lrng & Environmental Sci  
140B, In Person Term Based; Marissa Polvere ; 5 cr.  
16249 003 DIS, 15:00-16:55 MW, Lrng & Environmental Sci  
140B, In Person Term Based; Leah Dolezal ; 5 cr.

### 3704 American Sign Language IV

(Student Option; Prereq: 3703 with grade of at least [S  
or C-] or dept consent)

15279 001 DIS, 12:50-14:45 MW, Lrng & Environmental Sci  
140B, In Person Term Based; Daniel Pfaff ; 5 cr.  
15280 003 DIS, 08:30-10:25 TTh, Lrng & Environmental Sci  
140C, In Person Term Based; Sherri Rademacher ; 5 cr.  
15281 004 DIS, 10:40-12:35 TTh, Lrng & Environmental Sci  
140B, In Person Term Based; Bradley Hardin ; 5 cr.  
15513 002 DIS, 17:10-21:00 M, Lrng & Environmental Sci  
140C, In Person Term Based; Daniel Pfaff ; 5 cr.

## American Studies (AMST)

### 1012 Migrants, Refugees, Citizens, and Exiles: The U.S. on an Immigrant Planet

(Student Option; CIV)

20515 001 LEC, 13:00-14:15 MW, Appleby Hall 3, In Person  
Term Based; Khoi Nguyen ; 3 cr.  
35391 002 LEC, 09:45-11:00 TTh, Blegen Hall 155, In  
Person Term Based; Kale Fajardo ; 3 cr.

### 1918 The American Quest for Security

(A-F only; CIV)

33914 001 DIS, 14:30-15:45 TTh, Blegen Hall 260, In Person  
Term Based; Elaine May ; 3 cr.

### 2011 The United States since September 11

(Student Option; CIV,HIS)

18307 001 LEC, 14:30-15:45 TTh, Anderson Hall 310, In  
Person Term Based; David Karjanen ; 3 cr.

### 2031 Chasing the American Dream: Economic Opportunity & Inequality in the U.S.

(Student Option; DSJ,HIS)

20190 001 LEC, 13:00-14:15 TTh, Nicholson Hall 335, In  
Person Term Based; Kidious Carroll ; 3 cr.  
35392 002 LEC, 09:45-11:00 MW, Appleby Hall 3, In Person  
Term Based; Kale Fajardo ; 3 cr.

### 3003 Public History

(A-F or Audit; )

34107 001 LEC, 17:00-19:30 T, Blegen Hall 235, In Person  
Term Based; Meets With: 090 HIST 3001001 AMIN 3001;  
Kevin Murphy ; 3 cr.

### 3112 Prince, Porn, and Public Space: The Cultural Politics of the Twin Cities in the 1980s

(Student Option; DSJ,HIS)

33717 001 LEC, 14:30-15:45 MW, Folwell Hall 108, In  
Person Term Based; Elliott Powell ; 3 cr.

### 3114 America in International Perspective

(Student Option; DSJ)

33718 001 LEC, 16:00-18:30 W, Bruininks Hall 123, In  
Person Term Based; Scott McDowell ; 3 cr.

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

(Student Option; CIV,WI,HIS)

17266 001 LEC, 11:15-12:30 MW, Nicholson Hall 125, In  
Person Term Based; Joseph Whitson ; 4 cr.

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

(Student Option; CIV,WI,HIS)

17974 001 LEC, 11:15-12:30 TTh, Nicholson Hall 275, In  
Person Term Based; Matthew Tchepikova-Treon ; 4 cr.  
21076 002 DIS, 13:25-14:15 M, Appleby Hall 219, In Person  
Term Based; Matthew Tchepikova-Treon ; 4 cr.  
21077 003 DIS, 14:30-15:20 M, Appleby Hall 226, In Person  
Term Based; Matthew Tchepikova-Treon ; 4 cr.  
21078 004 DIS, 13:25-14:15 W, Vincent Hall 206, In Person  
Term Based; Matthew Tchepikova-Treon ; 4 cr.  
21079 005 DIS, 14:30-15:20 W, Bruininks Hall 123, In Person  
Term Based; Matthew Tchepikova-Treon ; 4 cr.

### 3361 Asian Americans and Food

(Student Option; )

33722 001 LEC, 13:00-15:30 M, Scott Hall 4, In Person Term  
Based; Meets With: 001 AAS 3361; Martin Manalansan ; 3 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent)

17462 001 IND, 00:00-00:00 , , In Person Term Based; 1-9  
cr.

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

(Student Option; DSJ.HIS)  
19548 001 LEC, 13:00-14:15 TTh, Peik Hall 335, In Person Term Based; Elizabeth Hartman ; 3 cr.

**4961 Proseminar I**

(Student Option; Prereq: AmSt jr or AmSt sr or instr consent)  
19712 001 LEC, 10:10-12:05 M, Lind Hall 340, In Person Term Based; Elliott Powell ; 3 cr.

**Anatomy (ANAT)****3001 Human Anatomy**

(Student Option; Prereq: [BIOL 1002W or BIOL 1009 or BIOL 2002 or equiv], at least soph)  
27903 001 LEC, 09:05-09:55 MWF, 10 Church Street SE 100, In Person Term Based; Mark Cook ; 3 cr.  
33021 002 LEC, 09:05-09:55 MWF, Room TBA, In Person Term Based; 3 cr.

**4900 Directed Studies in Anatomy**

(S-N only; Prereq: instr consent)  
27904 001 IND, 00:00-00:00 , , In Person Term Based; Anthony Weinhaus ; 1-6 cr.

**5095 Advanced Problems in Anatomy**

(A-F only; Prereq: one or more ANAT classes, instr consent)  
28030 001 IND, 00:00-00:00 , , Independent/Directed Study; Anthony Weinhaus ; 1-6 cr.  
28031 002 IND, 00:00-00:00 , , Independent/Directed Study; Mark Cook ; 1-6 cr.

**5150 Human Gross Anatomy**

(A-F only; Prereq: instr consent, For Medical Students, or Graduate students enrolled in an appropriate graduate program as determined by instructor.)  
28029 001 LAB, 08:00-12:05 TTh, Lab TBA, In Person Term Based; Anthony Weinhaus ; 5 cr.  
28029 001 LAB, 08:00-12:05 TTh, Lab TBA, In Person Term Based; Anthony Weinhaus ; 5 cr.

**Anesthesiology (ANES)****5587 Adv Clinical Physiology I for Nurse Anesthetists**

(A-F or Audit; )  
27707 001 LEC, In Person Term Based; 3 cr.

**Animal Science (ANSC)****1001 Orientation to Animal Science**

(A-F or Audit; )  
21826 001 LEC, 15:00-15:50 T, Ruttan Hall B35, In Person Term Based; Melissa Palmer ; 1 cr.  
22047 002 DIS, 16:00-17:15 T, Ruttan Hall B22, In Person Term Based; Melissa Palmer ; 1 cr.  
22048 003 DIS, 16:00-17:15 T, Magrath Library 4, In Person Term Based; Melissa Palmer ; 1 cr.  
22049 004 DIS, 16:00-17:15 T, Magrath Library 6, In Person Term Based; Melissa Palmer ; 1 cr.  
22050 005 DIS, In Person Term Based; 1 cr.  
22051 006 DIS, 16:00-17:15 T, Haecker Hall 205, In Person Term Based; Melissa Palmer ; 1 cr.  
22052 007 DIS, In Person Term Based; 1 cr.

**1101 Introductory Animal Science**

(Student Option; )  
22269 001 LEC, 12:50-13:40 MWF, Borlaug Hall 335, In Person Term Based; Anthony Seykora ; 4 cr.  
22276 002 LAB, 15:00-16:55 W, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.  
22277 003 LAB, 15:00-16:55 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.  
22278 004 LAB, 10:40-12:35 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.  
22279 005 LAB, 12:50-14:45 Th, Haecker Hall 365, In Person Term Based; Anthony Seykora ; 4 cr.

**1205 Animal Handling - Livestock**

(A-F only; )  
22239 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; )  
34057 001 LEC, Completely Online; Marshall Stern ; 3 cr.

**1511 Food Animal Products for Consumers**

(Student Option; )  
21666 001 LEC, 09:35-10:25 MWF, Haecker Hall 205, In Person Term Based; Kyle Rozeboom ; 3 cr.

**1901 The journey of food in your body - digestive physiology**

(Student Option; )  
34840 001 DIS, 08:45-10:00 TTh, Haecker Hall 365, In Person Term Based; Milena Saqui-Salces ; 3 cr.

**2011 Dairy Cattle Judging**

(Student Option; Prereq: instr consent)  
21646 001 FWK, 00:00-00:00 , , In Person Term Based; Leslie Hansen ; 2 cr.

**2013 Beginning Livestock Judging**

(Student Option; )  
34023 001 LAB, 15:00-18:00 TTh, Lab TBA, In Person Term Based; Kyle Rozeboom ; 2 cr.

**2015 Animal Welfare Science and Ethics**

(A-F only; )  
34019 001 LEC, 10:15-11:30 TTh, Haecker Hall 205, In Person Term Based; Beth Ventura ; 3 cr.

**2016 Introduction to Applied Animal Behavior**

(A-F only; )  
34018 001 LEC, 13:30-14:45 TTh, Ruttan Hall B35, In Person Term Based; Beth Ventura ; 3 cr.

**2055 Horse Management**

(Student Option; )  
21857 001 LEC, Completely Online; Krishona Martinson ; 2 cr.

**2056 Horse Management Practicum**

(Student Option; Prereq: 2055 or concurrent registration is required (or allowed) in 2055)  
22013 001 LAB, 15:00-15:50 W, Haecker Hall 205, In Person Term Based; Krishona Martinson ; 2 cr.

**2401 Animal Nutrition**

(Student Option; )  
21669 001 LEC, 09:35-10:25 MWF, Ruttan Hall B45, In Person Term Based; Marshall Stern, Mary Raeth ; 3 cr.

**3011 Statistics for Animal Science**

(Student Option; )  
21990 001 LEC, 10:15-11:30 TTh, Alderman Hall 415, In Person Term Based; Mary Raeth ; 4 cr.  
21991 002 LAB, 12:50-14:45 W, Room TBA, In Person Term Based; Mary Raeth ; 4 cr.  
21992 003 LAB, 13:55-15:50 W, Room TBA, In Person Term Based; Mary Raeth ; 4 cr.

**3015 Animal Welfare Judging and Assessment**

(Student Option; )  
22267 001 LEC, 11:45-13:00 MW, Haecker Hall 205, In Person Term Based; Beth Ventura ; 3 cr.

**3092 Undergraduate Research in Animal Science**

(A-F only; )  
21938 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.  
22381 002 IND, Independent/Directed Study; Sally Noll ; 1-3 cr.

**3221 Animal Breeding**

(Student Option; )  
21692 001 LEC, 08:30-09:20 MWF, Ruttan Hall B45, In Person Term Based; Anthony Seykora ; 4 cr.  
21693 002 LAB, 12:50-14:45 T, Andrew Boss Laboratory 125, In Person Term Based; Anthony Seykora ; 4 cr.  
21694 003 LAB, 15:00-16:55 T, Andrew Boss Laboratory 125, In Person Term Based; Anthony Seykora ; 4 cr.

**3301 Human and Animal Physiology**

(Student Option; Prereq: Must have taken a Biology and Chemistry course.)  
21650 001 LEC, 08:30-09:20 MWF, Biological Sciences Ctr 64, In Person Term Based; Melissa Palmer ; 3 cr.

**3302 Human and Animal Physiology Laboratory**

(Student Option; Prereq: 3301 or concurrent registration is required (or allowed) in 3301)  
21945 001 LAB, 13:55-15:50 T, Food Science & Nutrition 218, In Person Term Based; Melissa Palmer ; 1 cr.

**3305 Reproductive Biology in Health and Disease**

(Student Option; Prereq: Biol 1009 or equiv)  
21777 001 LEC, 13:55-14:45 MWF, Haecker Hall 205, In Person Term Based; Laura Mauro ; 4 cr.  
21778 002 LAB, 09:35-11:30 T, Haecker Hall 430, In Person Term Based; Laura Mauro ; 4 cr.  
21779 003 LAB, 15:00-16:55 Th, Haecker Hall 430, In Person Term Based; Laura Mauro ; 4 cr.

**3307 Artificial Insemination Techniques**

(S-N or Audit; Prereq: instr consent)  
21867 001 LAB, 00:00-00:00 , , In Person Term Based; Anthony Seykora ; 1 cr.

**3480 Topics in Animal Science**

(Student Option; )  
34757 001 LEC, In Person Term Based; 1-3 cr.

**3509 Animal Biotechnology**

(Student Option; BIOL.TS)  
22265 001 LEC, 11:45-13:00 MW, Magrath Library 6, In Person Term Based; Christopher Faulk ; 4 cr.  
22327 004 LAB, 12:50-14:45 Th, Food Science & Nutrition 218, In Person Term Based; Christopher Faulk ; 4 cr.

**3609 Business Planning for Animal Enterprises**

(Student Option; )  
21783 001 LEC, 12:50-14:45 T, 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 consent)  
21852 001 IND, 00:00-00:00 , , In Person Term Based; Laura Mauro ; 1-6 cr.

**4092 Special Problems in Animal Science**

(Student Option; Prereq: instr consent)  
21667 001 IND, 00:00-00:00 , , In Person Term Based; Anthony Seykora ; 1-4 cr.  
22005 002 IND, 00:00-00:00 , , Independent/Directed Study; Ryan Cox ; 1-4 cr.  
22240 003 IND, Independent/Directed Study; Melissa Palmer ; 1-4 cr.  
22364 004 IND, Independent/Directed Study; Beth Ventura ; 1-4 cr.

**4093 Tutorial in Animal Science**

(Student Option; Prereq: instr consent)  
21668 001 IND, In Person Term Based; 1-4 cr.

**4096 Professional Experience Program: Internship**

(A-F only; Prereq: CFANS undergrad, instr consent, agreement form)  
21893 001 FWK, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.  
21894 002 FWK, 00:00-00:00 , , Independent/Directed Study; Leslie Hansen ; 1-3 cr.  
21895 003 FWK, 00:00-00:00 , , Independent/Directed Study; Marcia Hathaway ; 1-3 cr.  
21896 004 FWK, 00:00-00:00 , , Independent/Directed Study; Laura Mauro ; 1-3 cr.  
21897 005 FWK, 00:00-00:00 , , Independent/Directed Study; Sally Noll ; 1-3 cr.  
21898 006 FWK, 00:00-00:00 , , Independent/Directed Study; Kyle Rozeboom ; 1-3 cr.  
21899 007 FWK, 00:00-00:00 , , Independent/Directed Study; Anthony Seykora ; 1-3 cr.  
21900 008 FWK, 00:00-00:00 , , Independent/Directed Study; Gerald Shurson ; 1-3 cr.  
21901 009 FWK, 00:00-00:00 , , Independent/Directed Study; Marshall Stern ; 1-3 cr.  
21934 010 FWK, 00:00-00:00 , , Independent/Directed Study; Mary Raeth ; 1-3 cr.  
22147 011 FWK, 00:00-00:00 , , Independent/Directed Study; Melissa Palmer ; 1-3 cr.  
22159 012 FWK, 00:00-00:00 , , Independent/Directed Study; Anup Kollanoor Johnny ; 1-3 cr.  
22161 013 FWK, 00:00-00:00 , , Independent/Directed Study; Christopher Faulk ; 1-3 cr.  
22180 014 FWK, 00:00-00:00 , , In Person Term Based; Scott O'Grady ; 1-3 cr.  
22185 015 FWK, In Person Term Based; Milena Saqui-Salces ; 1-3 cr.  
22272 016 FWK, Independent/Directed Study; Beth Ventura ; 1-3 cr.  
22282 017 FWK, In Person Term Based; Brian Crooker ; 1-3 cr.

**4099 Special Workshop in Animal Science**

(Student Option; Prereq: instr consent)

22204 001 IND, In Person Term Based; Anthony Seykora ; 1-4 cr.

#### 4401 Swine Nutrition

(Student Option; Prereq: 2401, 3511 recommended)  
21663 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Gerald Shurson, Pedro Urriola ; 3 cr.

#### 4404 Applied Dairy Nutrition

(Student Option; Prereq: AnSc 4403 recommended)  
21825 001 LEC, 12:50-14:45 T, Peters Hall 145, In Person Term Based; Mary Raeth ; 2 cr.

#### 4601 Pork Production Systems Management

(Student Option; Prereq: 2401; 3221 recommended)  
34334 001 LEC, 12:50-13:40 MF, Haecker Hall 430, In Person Term Based; Kyle Rozeboom ; 4 cr.  
34335 002 LAB, 12:50-15:20 W, Ruttan Hall B26, In Person Term Based; Kyle Rozeboom ; 4 cr.

#### 4603 Beef Production Systems Management

(Student Option; Prereq: concurrent registration is required (or allowed) in 4613)  
21850 002 LAB, 09:35-12:20 Th, Haecker Hall 430, In Person Term Based; Meets With: 002 ANSC 4613; Alfredo DiCostanzo ; 4 cr.  
21851 001 LEC, 08:30-09:20 TTh, Haecker Hall 205, In Person Term Based; Meets With: 001 ANSC 4613; Alfredo DiCostanzo ; 4 cr.

#### 4613 Advanced Beef Production Systems Management

(Student Option; Prereq: 4603)  
21853 001 LEC, 08:30-09:20 TTh, Haecker Hall 205, In Person Term Based; Meets With: 001 ANSC 4603; Alfredo DiCostanzo ; 2 cr.  
21854 002 LAB, 09:35-12:20 Th, Haecker Hall 430, In Person Term Based; Meets With: 002 ANSC 4603; Alfredo DiCostanzo ; 2 cr.

#### 5035 Animal Welfare Judging and Assessment

(A-F only; )  
35453 001 LEC, 10:45-13:00 MW, Ruttan Hall B42, In Person Term Based; Beth Ventura ; 3 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.WI)  
22169 001 LEC, 15:00-16:30 TTh, Ruttan Hall B26, In Person Term Based; Meets With: 001 CFAN 3091V; Milena Saqui-Salces ; 3 cr.

#### 5625 Nutritional Biochemistry

(Student Option; Prereq: BIOC 3021 or instr consent)  
21968 001 LEC, 16:00-17:15 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 NUTR 5625; Chi Chen ; 3 cr.

## Anthropology (ANTH)

#### 1001 Human Evolution

(Student Option; BIOL)  
17610 001 LEC, 11:15-12:30 TTh, Willey Hall 175, In Person Term Based; Michael Wilson ; 4 cr.  
17624 002 LAB, 09:00-11:00 M, Blegen Hall 345, In Person Term Based; 4 cr.  
17625 003 LAB, 11:15-13:15 M, Blegen Hall 345, In Person Term Based; 4 cr.  
17626 004 LAB, 13:30-15:30 M, Blegen Hall 345, In Person Term Based; 4 cr.  
17627 005 LAB, 15:45-17:45 M, Blegen Hall 345, In Person Term Based; 4 cr.  
17628 006 LAB, 08:45-10:45 T, Blegen Hall 345, In Person Term Based; 4 cr.  
17629 007 LAB, 13:00-15:00 T, Blegen Hall 345, In Person Term Based; 4 cr.  
17630 008 LAB, 15:15-17:15 T, Blegen Hall 345, In Person Term Based; 4 cr.  
17631 009 LAB, 09:00-11:00 W, Blegen Hall 345, In Person Term Based; 4 cr.  
17632 010 LAB, 11:15-13:15 W, Blegen Hall 345, In Person Term Based; 4 cr.  
17633 011 LAB, 13:30-15:30 W, Blegen Hall 345, In Person Term Based; 4 cr.  
17634 012 LAB, 15:45-17:45 W, Blegen Hall 345, In Person Term Based; 4 cr.  
17635 013 LAB, 08:45-10:45 Th, Blegen Hall 345, In Person Term Based; 4 cr.

17636 014 LAB, 13:00-15:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.  
17637 020 LEC, 18:30-21:30 T, Blegen Hall 150, In Person Term Based; Eric Bangs ; 4 cr.  
17638 021 LAB, 18:00-20:00 Th, Blegen Hall 345, In Person Term Based; 4 cr.  
17639 022 LAB, 18:00-20:00 M, Blegen Hall 345, In Person Term Based; 4 cr.  
19878 015 LAB, 11:15-13:15 F, Blegen Hall 345, In Person Term Based; 4 cr.

#### 1003V Understanding Cultures: Honors

(A-F only; Prereq: HonorsGP,WI,SOCS)  
17495 001 LEC, 13:00-14:15 MW, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 1003W; Stuart McLean ; 4 cr.  
17496 002 DIS, 14:30-15:20 W, Blegen Hall 205, In Person Term Based; Stuart McLean ; 4 cr.

#### 1003W Understanding Cultures

(Student Option; GP,WI,SOCS)  
17193 001 LEC, 13:00-14:15 MW, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 1003V; Stuart McLean ; 4 cr.  
17194 002 DIS, 09:05-09:55 M, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.  
17195 003 DIS, 10:10-11:00 M, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.  
17196 004 DIS, 14:30-15:20 M, Blegen Hall 125, In Person Term Based; 4 cr.  
17197 005 DIS, 09:05-09:55 W, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.  
17783 006 DIS, 10:10-11:00 W, Carlson School of Mgmt 1-143, In Person Term Based; 4 cr.  
19292 010 LEC, 18:20-21:30 M, Blegen Hall 150, In Person Term Based; Jen Hughes ; 4 cr.  
19888 007 DIS, 14:30-15:20 W, Hubert H. Humphrey School 20, In Person Term Based; 4 cr.  
20541 008 DIS, 09:05-09:55 Th, Carlson School of Mgmt 2-219, In Person Term Based; 4 cr.

#### 1912 Time: Now and Then

(Student Option No Audit; )  
34733 001 DIS, 16:15-17:30 MW, Blegen Hall 115, In Person Term Based; David Valentine ; 3 cr.

#### 1914W From "O Brother Where Art Thou?" to "12 Years a Slave": American Cinema and American Roots Music

(Student Option No Audit; DSJ,WI)  
21110 001 DIS, 13:30-16:00 W, Carlson School of Mgmt 1-136, In Person Term Based; Gloria Raheja ; 3 cr.

#### 1918 Justice?

(Student Option; GP)  
34529 001 DIS, 14:30-15:45 TTh, Blegen Hall 430, In Person Term Based; Aisha Ghani ; 3 cr.

#### 2001V Being Human - A Comprehensive Introduction to the Four Fields of Anthropology

(A-F only; WI)  
31821 001 LEC, 13:00-14:15 MW, Hubert H. Humphrey School 60, In Person Term Based; William Beeman ; 3 cr.

#### 2006 Humans and Aliens: Learning Anthropology through Science Fiction

(Student Option; GP)  
34013 001 LEC, 09:00-09:50 MWF, Blegen Hall 155, In Person Term Based; Meets With: 001 ANTH 3006; Gilbert Tostevin ; 3 cr.

#### 3001 Introduction to Archaeology

(Student Option; SOCS)  
18900 001 LEC, 09:45-11:00 MW, Blegen Hall 120, In Person Term Based; Gilliane Monnier ; 4 cr.  
18901 002 LAB, 11:15-13:10 M, Blegen Hall 318, In Person Term Based; 4 cr.  
18902 003 LAB, 14:30-16:25 M, Blegen Hall 318, In Person Term Based; 4 cr.  
35031 005 LAB, 09:45-11:45 F, Blegen Hall 318, In Person Term Based; 4 cr.

#### 3003 Cultural Anthropology

(Student Option; )  
17497 001 LEC, 13:00-14:15 TTh, Blegen Hall 10, In Person Term Based; Gloria Raheja ; 3 cr.

#### 3005W Language, Culture, and Power

(Student Option; DSJ,WI,SOCS)  
19734 001 LEC, 13:00-14:15 MW, Anderson Hall 250, In Person Term Based; David Valentine ; 4 cr.

19735 002 DIS, 14:30-15:20 M, Blegen Hall 145, In Person Term Based; 4 cr.  
19736 003 DIS, 13:25-14:15 T, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
19737 004 DIS, 10:10-11:00 W, Carlson School of Mgmt 1-122, In Person Term Based; 4 cr.  
19738 005 DIS, 14:30-15:20 W, Blegen Hall 145, In Person Term Based; 4 cr.

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

(Student Option; GP)  
34016 001 LEC, 09:00-09:50 MWF, Blegen Hall 155, In Person Term Based; Meets With: 001 ANTH 2006; Gilbert Tostevin ; 3 cr.

#### 3027W Archaeology of Prehistoric Europe

(Student Option; HIS,WI)  
17862 001 LEC, 09:45-11:00 TTh, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 5027W001 HIST 3067W; Peter Wells ; 3 cr.

#### 3035 Anthropologies of Death

(A-F or Audit; GP,SOCS)  
31823 001 LEC, 13:00-14:15 MW, Blegen Hall 130, In Person Term Based; Jean Langford ; 3 cr.

#### 3242W Hero, Savage, or Equal? Representations of NonWestern Peoples in the Movies

(A-F only; WI)  
19875 001 LEC, 13:00-16:00 Th, Blegen Hall 415, 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 recommendedGP,WI)  
31824 001 LEC, 18:00-20:30 W, Willey Hall 125, In Person Term Based; 3 cr.

#### 3327W Inca, Aztec & Maya Civilizations

(A-F only; HIS,WI)  
34457 001 LEC, 13:00-14:15 TTh, Blegen Hall 250, In Person Term Based; Meets With: 001 ANTH 5327W; Steven Kosiba ; 3 cr.

#### 3401 The Human Fossil Record

(A-F only; Prereq: 1001 or instr consent)  
19290 001 LAB, 11:00-12:15 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 5401; Kieran McNulty ; 3 cr.

#### 3402 Zooarchaeology Laboratory

(A-F only; )  
21102 001 LAB, 15:15-16:30 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 5402; Martha Tappen ; 3 cr.

#### 3601 Archaeology and Native Americans

(Student Option; DSJ)  
31825 001 LEC, 09:30-12:00 F, Anderson Hall 230, In Person Term Based; Meets With: 001 ANTH 5601001 AMIN 3602001 AMIN 5602; Kat Hayes ; 3 cr.

#### 3631 Islam in America: A History of the Present

(A-F or Audit; )  
34452 001 DIS, 17:30-20:00 W, Blegen Hall 260, 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)  
17198 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1 cr.  
18993 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1 cr.  
18994 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1 cr.  
18995 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1 cr.  
18996 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1 cr.  
18997 006 IND, 00:00-00:00 , , In Person Term Based; Steven Kosiba ; 1 cr.  
18998 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1 cr.  
18999 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1 cr.  
19000 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1 cr.  
19001 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1 cr.

19002 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1 cr.  
 19003 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1 cr.  
 19004 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1 cr.  
 19005 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1 cr.  
 19006 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1 cr.  
 19007 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1 cr.  
 19008 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1 cr.  
 20544 007 IND, In Person Term Based; Jean Langford ; 1 cr.  
 21123 019 IND, In Person Term Based; Michael Wilson ; 1 cr.  
 32865 020 IND, In Person Term Based; Aisha Ghani ; 1 cr.

#### 4007 Laboratory Techniques in Archaeology

(Student Option; Prereq: instr consent)  
 19876 001 FWK, 00:00-00:00 , , In Person Term Based; Meets With: 001 ANTH 4007H; Matt Edling ; 1-4 cr.

#### 4007H Honors: Laboratory Techniques in Archaeology

(A-F only; )  
 20587 001 FWK, 00:00-00:00 , , In Person Term Based; Meets With: 001 ANTH 4007; Matt Edling ; 1-4 cr.

#### 4013 Capstone Project

(Student Option; Prereq: sr major, instr consent)  
 17253 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1-3 cr.  
 19009 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-3 cr.  
 19010 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-3 cr.  
 19011 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-3 cr.  
 19012 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-3 cr.  
 19013 006 IND, 00:00-00:00 , , In Person Term Based; Steven Kosiba ; 1-3 cr.  
 19014 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-3 cr.  
 19015 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1-3 cr.  
 19016 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-3 cr.  
 19017 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-3 cr.  
 19018 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1-3 cr.  
 19019 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-3 cr.  
 19020 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-3 cr.  
 19021 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-3 cr.  
 19022 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-3 cr.  
 19023 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-3 cr.  
 19024 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-3 cr.  
 20546 007 IND, In Person Term Based; Jean Langford ; 1-3 cr.  
 21191 019 IND, In Person Term Based; Michael Wilson ; 1-3 cr.  
 32866 020 IND, In Person Term Based; Aisha Ghani ; 1-3 cr.

#### 4013H Honors Thesis

(A-F only; Prereq: Sr major, honors student, instr consent)  
 19151 001 IND, 00:00-00:00 , , Independent/Directed Study; William Beeman ; 3 cr.  
 19152 002 IND, 00:00-00:00 , , Independent/Directed Study; Erin Durban ; 3 cr.  
 19153 003 IND, 00:00-00:00 , , Independent/Directed Study; Serra Hakyemez ; 3 cr.  
 19154 004 IND, 00:00-00:00 , , Independent/Directed Study; Kat Hayes ; 3 cr.  
 19155 005 IND, 00:00-00:00 , , Independent/Directed Study; Karen Ho ; 3 cr.  
 19156 006 IND, 00:00-00:00 , , Independent/Directed Study; Steven Kosiba ; 3 cr.  
 19157 008 IND, 00:00-00:00 , , Independent/Directed Study; David Lipset ; 3 cr.  
 19158 009 IND, 00:00-00:00 , , Independent/Directed Study; Stuart McLean ; 3 cr.  
 19159 010 IND, 00:00-00:00 , , Independent/Directed Study; Kieran McNulty ; 3 cr.  
 19160 011 IND, 00:00-00:00 , , Independent/Directed Study; Gilliane Monnier ; 3 cr.

19161 012 IND, 00:00-00:00 , , Independent/Directed Study; Gloria Raheja ; 3 cr.  
 19162 013 IND, 00:00-00:00 , , Independent/Directed Study; Hoon Song ; 3 cr.  
 19163 014 IND, 00:00-00:00 , , Independent/Directed Study; Martha Tappen ; 3 cr.  
 19164 015 IND, 00:00-00:00 , , Independent/Directed Study; Karen-Sue Taussig ; 3 cr.  
 19165 016 IND, 00:00-00:00 , , Independent/Directed Study; Gilbert Tostevin ; 3 cr.  
 19166 017 IND, 00:00-00:00 , , Independent/Directed Study; David Valentine ; 3 cr.  
 19167 018 IND, 00:00-00:00 , , Independent/Directed Study; Peter Wells ; 3 cr.  
 20547 007 IND, In Person Term Based; Jean Langford ; 3 cr.  
 21192 019 IND, In Person Term Based; Michael Wilson ; 3 cr.  
 32867 020 IND, In Person Term Based; Aisha Ghani ; 3 cr.

#### 4019 Symbolic Anthropology

(Student Option; Prereq: 1003 or 1005 or grad student or instr consent)  
 31827 001 LEC, 13:00-15:30 W, Blegen Hall 260, In Person Term Based; Rachel Thompson ; 3 cr.

#### 4035 Ethnographic Research Methods

(Student Option; Prereq: 1003 or 1005 or grad student)  
 34020 001 FWK, 13:00-15:30 T, Blegen Hall 215, In Person Term Based; Erin Durban ; 3 cr.

#### 4047 Anthropology of American Culture

(Student Option; SOCS)  
 32846 001 LEC, 09:45-11:00 MW, Blegen Hall 230, In Person Term Based; David Valentine ; 3 cr.

#### 4069 Historical Ecology & Anthropology of the Environment

(Student Option; )  
 31828 001 LEC, 15:15-17:45 W, Blegen Hall 215, In Person Term Based; Steven Kosiba ; 3 cr.

#### 4075 Cultural Histories of Healing

(A-F or Audit; GP,SOCS)  
 31829 001 LEC, 09:45-11:00 MW, Blegen Hall 215, In Person Term Based; Jean Langford ; 3 cr.

#### 4093 In-Class Capstone Project

(A-F only; )  
 34675 001 IND, In Person Term Based; William Beeman ; 1 cr.  
 34676 002 IND, In Person Term Based; Erin Durban ; 1 cr.  
 34677 003 IND, In Person Term Based; Aisha Ghani ; 1 cr.  
 34678 004 IND, In Person Term Based; Rachel Thompson ; 1 cr.  
 34679 005 IND, In Person Term Based; Kat Hayes ; 1 cr.  
 34680 006 IND, In Person Term Based; Karen Ho ; 1 cr.  
 34681 007 IND, In Person Term Based; Steven Kosiba ; 1 cr.  
 34682 008 IND, In Person Term Based; Jean Langford ; 1 cr.  
 34683 009 IND, In Person Term Based; David Lipset ; 1 cr.  
 34684 010 IND, In Person Term Based; Stuart McLean ; 1 cr.  
 34685 011 IND, In Person Term Based; Kieran McNulty ; 1 cr.  
 34686 012 IND, In Person Term Based; Gilliane Monnier ; 1 cr.  
 34687 013 IND, In Person Term Based; Gloria Raheja ; 1 cr.  
 34688 014 IND, In Person Term Based; Hoon Song ; 1 cr.  
 34689 015 IND, In Person Term Based; Martha Tappen ; 1 cr.  
 34690 016 IND, In Person Term Based; Karen-Sue Taussig ; 1 cr.  
 34691 017 IND, In Person Term Based; Gilbert Tostevin ; 1 cr.  
 34692 018 IND, In Person Term Based; David Valentine ; 1 cr.  
 34693 019 IND, In Person Term Based; Peter Wells ; 1 cr.  
 34694 020 IND, In Person Term Based; Michael Wilson ; 1 cr.

#### 4991 Independent Study

(Student Option; Prereq: instr consent)  
 17200 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1-6 cr.  
 19135 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 19136 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 19137 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 19138 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 19139 006 IND, 00:00-00:00 , , In Person Term Based; Steven Kosiba ; 1-6 cr.  
 19140 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 19141 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1-6 cr.  
 19142 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.

19143 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 19144 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1-6 cr.  
 19145 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 19146 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 19147 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 19148 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 19149 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 19150 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 20548 007 IND, In Person Term Based; Jean Langford ; 1-6 cr.  
 21193 019 IND, In Person Term Based; Michael Wilson ; 1-6 cr.  
 32868 020 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.

#### 4992 Directed Readings

(Student Option; Prereq: instr consent)  
 17201 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1-6 cr.  
 19119 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 19120 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 19121 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 19122 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 19123 006 IND, 00:00-00:00 , , In Person Term Based; Steven Kosiba ; 1-6 cr.  
 19124 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 19125 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1-6 cr.  
 19126 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.  
 19127 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 19128 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1-6 cr.  
 19129 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 19130 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 19131 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 19132 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 19133 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 19134 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 20549 007 IND, In Person Term Based; Jean Langford ; 1-6 cr.  
 21194 019 IND, In Person Term Based; Michael Wilson ; 1-6 cr.  
 32869 020 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.

#### 4993 Directed Study

(Student Option; Prereq: instr consent)  
 17202 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1-6 cr.  
 19103 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 19104 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 19105 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 19106 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 19107 006 IND, 00:00-00:00 , , In Person Term Based; Steven Kosiba ; 1-6 cr.  
 19108 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 19109 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1-6 cr.  
 19110 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.  
 19111 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 19112 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1-6 cr.  
 19113 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 19114 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 19115 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 19116 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.

19117 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 19118 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 20550 007 IND, In Person Term Based; Jean Langford ; 1-6 cr.  
 21195 019 IND, In Person Term Based; Michael Wilson ; 1-6 cr.  
 21434 020 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.

**4994W Directed Research****(Student Option; Prereq: instr consentWI)**

17203 001 IND, 00:00-00:00 , , In Person Term Based; William Beeman ; 1-6 cr.  
 17789 018 IND, 00:00-00:00 , , In Person Term Based; Peter Wells ; 1-6 cr.  
 19088 002 IND, 00:00-00:00 , , In Person Term Based; Erin Durban ; 1-6 cr.  
 19089 003 IND, 00:00-00:00 , , In Person Term Based; Serra Hakyemez ; 1-6 cr.  
 19090 004 IND, 00:00-00:00 , , In Person Term Based; Kat Hayes ; 1-6 cr.  
 19091 005 IND, 00:00-00:00 , , In Person Term Based; Karen Ho ; 1-6 cr.  
 19092 006 IND, 00:00-00:00 , , In Person Term Based; Christina Wiencke ; 1-6 cr.  
 19093 008 IND, 00:00-00:00 , , In Person Term Based; David Lipset ; 1-6 cr.  
 19094 009 IND, 00:00-00:00 , , In Person Term Based; Stuart McLean ; 1-6 cr.  
 19095 010 IND, 00:00-00:00 , , In Person Term Based; Kieran McNulty ; 1-6 cr.  
 19096 011 IND, 00:00-00:00 , , In Person Term Based; Gilliane Monnier ; 1-6 cr.  
 19097 012 IND, 00:00-00:00 , , In Person Term Based; Gloria Raheja ; 1-6 cr.  
 19098 013 IND, 00:00-00:00 , , In Person Term Based; Hoon Song ; 1-6 cr.  
 19099 014 IND, 00:00-00:00 , , In Person Term Based; Martha Tappen ; 1-6 cr.  
 19100 015 IND, 00:00-00:00 , , In Person Term Based; Karen-Sue Taussig ; 1-6 cr.  
 19101 016 IND, 00:00-00:00 , , In Person Term Based; Gilbert Tostevin ; 1-6 cr.  
 19102 017 IND, 00:00-00:00 , , In Person Term Based; David Valentine ; 1-6 cr.  
 20551 007 IND, In Person Term Based; Jean Langford ; 1-6 cr.  
 21196 019 IND, In Person Term Based; Michael Wilson ; 1-6 cr.  
 32871 020 IND, In Person Term Based; Aisha Ghani ; 1-6 cr.

**5027W Archaeology of Prehistoric Europe****(Student Option; HIS,WI)**

17199 001 LEC, 09:45-11:00 TTh, Anderson Hall 310, In Person Term Based; Meets With: 001 ANTH 3027W001 HIST 3067W; Peter Wells ; 3 cr.

**5244 Interpreting Ancient Bone****(A-F or Audit; Prereq: 1001)**

31834 001 LAB, 09:30-12:50 W, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 8244; Martha Tappen ; 4 cr.

**5269 Analysis of Stone Tool Technology****(A-F or Audit; )**

31830 001 LAB, 13:00-14:55 TTh, Blegen Hall 318, In Person Term Based; Gilbert Tostevin ; 4 cr.

**5327W Inca, Aztec & Maya Civilizations****(A-F only; HIS,WI)**

34459 001 LEC, 13:00-14:15 TTh, Blegen Hall 250, In Person Term Based; Meets With: 001 ANTH 3327W; Steven Kosiba ; 3 cr.

**5401 The Human Fossil Record****(A-F only; Prereq: 1001 or instr consent)**

19291 001 LAB, 11:00-12:15 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 3401; Kieran McNulty ; 3 cr.

**5402 Zooarchaeology Laboratory****(A-F only; )**

21103 001 LAB, 15:15-16:30 TTh, Blegen Hall 318, In Person Term Based; Meets With: 001 ANTH 3402; Martha Tappen ; 3 cr.

**5442 Archaeology of the British Isles****(A-F only; )**

18365 001 LEC, 14:00-16:30 T, Blegen Hall 330, In Person Term Based; Peter Wells ; 3 cr.

**5601 Archaeology and Native Americans****(Student Option; DSJ)**

31826 001 LEC, 09:30-12:00 F, Anderson Hall 230, In Person Term Based; Meets With: 001 ANTH 3601001 AMIN 3602001 AMIN 5602; Kat Hayes ; 3 cr.

**Apparel Design (ADES)****1221 Apparel Assembly Fundamentals****(A-F or Audit; Prereq: Pre-apparel design major or instr consent)**

14211 001 LAB, 11:45-13:40 MW, McNeal Hall 212, In Person Term Based; Lindsey Strange ; 3 cr.  
 31690 002 LAB, 09:35-11:30 MW, McNeal Hall 212, In Person Term Based; Robert Pettys Baker ; 3 cr.

**2196 Work Experience in Apparel Design****(S-N only; Prereq: Plan submitted/approved by [adviser, internship supervisor], written approval of supervisor, instr consent)**

14255 001 FWK, In Person Term Based; Elizabeth Bye ; 1-4 cr.  
 14256 002 FWK, In Person Term Based; Linsey Griffin ; 1-4 cr.  
 14257 003 FWK, In Person Term Based; Marilyn DeLong ; 1-4 cr.  
 14258 004 FWK, In Person Term Based; Lucy Dunne ; 1-4 cr.  
 33074 005 FWK, In Person Term Based; Brad Holschuh ; 1-4 cr.

**2213 Textile Analysis****(A-F or Audit; Prereq: DHA major or pre-major or instr consent)**

14166 001 LEC, 08:30-09:20 MW, McNeal Hall 33, In Person Term Based; Lindsey Strange ; 4 cr.  
 14167 002 LAB, 09:35-11:30 MW, McNeal Hall 250, In Person Term Based; 4 cr.  
 14168 004 LAB, 08:30-10:25 TTh, McNeal Hall 250, In Person Term Based; 4 cr.  
 31698 003 LAB, 16:05-18:00 MW, McNeal Hall 250, In Person Term Based; 4 cr.

**2222 Apparel Design Studio II****(A-F or Audit; Prereq: [2221 or DHA 2221] with a grade of at least C-, Apparel Design major, pass portfolio review)**

14453 001 LEC, 09:35-12:35 TTh, McNeal Hall 212, In Person Term Based; Linsey Griffin ; 4 cr.

**3217 Fashion: Trends and Communication****(A-F or Audit; )**

14169 001 DIS, 08:45-10:00 MW, McNeal Hall 316, In Person Term Based; Marilyn DeLong ; 3 cr.

**3227 Technical Design Studio****(A-F only; Prereq: 2213, [3223 with grade of C or above])**

14463 001 LAB, 13:55-16:55 TTh, McNeal Hall 212, In Person Term Based; Lucy Dunne ; 4 cr.

**4160H Honors Capstone Project****(A-F only; Prereq: DHA honors)**

14270 002 LEC, In Person Term Based; Karen LaBat ; 2 cr.  
 14271 004 LEC, In Person Term Based; Lucy Dunne ; 2 cr.  
 14272 003 LEC, In Person Term Based; Marilyn DeLong ; 2 cr.  
 14273 001 LEC, In Person Term Based; Elizabeth Bye ; 2 cr.

**4193 Directed Study in Apparel Design****(A-F or Audit; Prereq: Undergrad, instr consent)**

14245 001 IND, Independent/Directed Study; Elizabeth Bye ; 1-4 cr.  
 14247 003 IND, Independent/Directed Study; Marilyn DeLong ; 1-4 cr.  
 14248 004 IND, Independent/Directed Study; Lucy Dunne ; 1-4 cr.  
 14601 005 IND, In Person Term Based; Linsey Griffin ; 1-4 cr.  
 14602 002 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)**

14186 001 FWK, In Person Term Based; Elizabeth Bye ; 1-4 cr.  
 14215 003 FWK, In Person Term Based; Marilyn DeLong ; 1-4 cr.  
 14216 004 FWK, In Person Term Based; Lucy Dunne ; 1-4 cr.  
 14599 005 FWK, In Person Term Based; Linsey Griffin ; 1-4 cr.  
 14600 002 FWK, In Person Term Based; Brad Holschuh ; 1-4 cr.

**4218W Fashion, Design, and the Global Industry****(A-F only; Prereq: Upper level undergraduate or grad studentWI)**

14467 001 LEC, Completely Online; Jennifer Huh ; 3 cr.

**4225 Apparel Design Studio V****(A-F or Audit; Prereq: [[3224 or DHA 3224], [3225 or DHA 3225]] with grade of at least C-, apparel design major)**

14183 001 LAB, 13:55-16:55 MW, McNeal Hall 212, In Person Term Based; Lindsey Strange ; 4 cr.

**Apparel Studies (APST)****5170 Topics in Apparel Studies****(A-F or Audit; )**

34264 001 LEC, 13:00-15:00 Th, McNeal Hall 250, 09:00-17:00 F, McNeal Hall 395, 09:00-11:30 Sa, McNeal Hall 395, In Person Term Based; Meets With: 001 RM 3170; Juanjuan Wu, Marilyn DeLong ; 1-4 cr.

**5193 Directed Study in Apparel Studies****(A-F or Audit; Prereq: instr consent)**

14176 001 IND, In Person Term Based; Elizabeth Bye ; 1-4 cr.  
 14217 002 IND, In Person Term Based; Linsey Griffin ; 1-4 cr.  
 14218 003 IND, In Person Term Based; Marilyn DeLong ; 1-4 cr.  
 14219 004 IND, In Person Term Based; Lucy Dunne ; 1-4 cr.  
 14220 005 IND, In Person Term Based; Brad Holschuh ; 1-4 cr.  
 14221 006 IND, In Person Term Based; Hye-Young Kim ; 1-4 cr.  
 14222 007 IND, In Person Term Based; Juanjuan Wu ; 1-4 cr.  
 14516 008 IND, In Person Term Based; Hyunjoon Im ; 1-4 cr.

**Applied Business (ABUS)****3029W Writing Workshop for Applied & Professional Studies Majors****(A-F only; WI)**

35224 001 LEC, 13:25-17:00 M, Peik Hall 315, In Person Term Based; Steven Wandler ; 2 cr.

**3051 Career Search for the Professional Environment****(Student Option; Prerequisites: None, but upper-division status recommended.)**

29767 301 LEC, Completely Online; Carol Klempka ; 2 cr.  
 29767 301 LEC, Completely Online; Carol Klempka ; 2 cr.  
 29767 301 LEC, Completely Online; Carol Klempka ; 2 cr.  
 29801 302 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 29801 302 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 29801 302 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 29947 303 LEC, Completely Online; Carol Klempka ; 2 cr.  
 29947 303 LEC, Completely Online; Carol Klempka ; 2 cr.  
 29947 303 LEC, Completely Online; Carol Klempka ; 2 cr.  
 33174 304 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 33174 304 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 33174 304 LEC, Completely Online; Alyssa Maples ; 2 cr.  
 35590 305 LEC, Completely Online; Carol Klempka ; 2 cr.  
 35590 305 LEC, Completely Online; Carol Klempka ; 2 cr.  
 35590 305 LEC, Completely Online; Carol Klempka ; 2 cr.

**3301 Introduction to Quality Management****(A-F or Audit; Prereq: Introductory statistics)**

29763 301 LEC, Completely Online; Scott Martens ; 3 cr.  
 29763 301 LEC, Completely Online; Scott Martens ; 3 cr.  
 29883 302 LEC, Completely Online; Karen Schaffhausen ; 3 cr.

**3510 Communicating Virtually Across Global Teams in Applied Business Settings****(A-F or Audit; )**

29848 301 LEC, Completely Online; Ann Lowry ; 4 cr.  
 29848 301 LEC, Completely Online; Ann Lowry ; 4 cr.

**4012 Strategic Decision Making and Problem Solving****(A-F or Audit; Prereq: 45 cr)**

29691 301 LEC, Completely Online; Dan McNamara ; 3 cr.  
 29691 301 LEC, Completely Online; Dan McNamara ; 3 cr.

**4013W Legal, Ethical, and Risk Issues for Managers****(A-F or Audit; Prereq: CMgt 4011 recommended for CMgt students, 45 semester creditsWI)**



29844 302 LEC, Completely Online; Charles Bethel ; 3 cr.  
 29844 302 LEC, Completely Online; Charles Bethel ; 3 cr.  
 29909 301 LEC, Completely Online; Deborah Mackay ; 3 cr.  
 29909 301 LEC, Completely Online; Deborah Mackay ; 3 cr.

#### 4022W Management in Organizations

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

29677 301 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29677 301 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29911 302 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29911 302 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29934 303 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29934 303 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29935 304 LEC, Completely Online; Brian Simons ; 3 cr.  
 29935 304 LEC, Completely Online; Brian Simons ; 3 cr.

#### 4023W Communicating for Results

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

29713 301 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29762 302 LEC, Completely Online; Bradley Goodell ; 3 cr.  
 29868 303 LEC, Completely Online; Ann Lowry ; 3 cr.

#### 4041 Dynamics of Leadership

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

29674 301 LEC, Completely Online; David Kaiser ; 3 cr.  
 29674 301 LEC, Completely Online; David Kaiser ; 3 cr.  
 29674 301 LEC, Completely Online; David Kaiser ; 3 cr.  
 29882 302 LEC, Completely Online; David Kaiser ; 3 cr.  
 29882 302 LEC, Completely Online; David Kaiser ; 3 cr.  
 29882 302 LEC, Completely Online; David Kaiser ; 3 cr.

#### 4043 Project Management in Practice

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

29872 301 LEC, Completely Online; William Bengtson ; 3 cr.  
 29872 301 LEC, Completely Online; William Bengtson ; 3 cr.  
 29872 301 LEC, Completely Online; William Bengtson ; 3 cr.

#### 4101 Accounting and Finance for Managers

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

29695 301 LEC, Completely Online; Stacy O'Fallon ; 3 cr.  
 29695 301 LEC, Completely Online; Stacy O'Fallon ; 3 cr.  
 29695 301 LEC, Completely Online; Stacy O'Fallon ; 3 cr.

#### 4104 Management and Human Resource Practices

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

29675 301 LEC, Completely Online; Margaret Kilpatrick ; 3 cr.  
 29675 301 LEC, Completely Online; Margaret Kilpatrick ; 3 cr.  
 30987 302 LEC, Completely Online; Margaret Kilpatrick ; 3 cr.  
 30987 302 LEC, Completely Online; Margaret Kilpatrick ; 3 cr.

#### 4151 Innovation for Leaders and Organizations

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

29732 301 LEC, Completely Online; Gordon Flanders ; 3 cr.  
 29732 301 LEC, Completely Online; Gordon Flanders ; 3 cr.

#### 4211 Facility Asset Management, Finance, and Budgeting

(A-F or Audit; Prereq: ABUS 4101 or basic accounting/finance knowledge/experience)

29824 301 LEC, Completely Online; Steven Taylor ; 2 cr.  
 29824 301 LEC, Completely Online; Steven Taylor ; 2 cr.  
 29824 301 LEC, Completely Online; Steven Taylor ; 2 cr.  
 29824 301 LEC, Completely Online; Steven Taylor ; 2 cr.

#### 4213 Facility Management Fundamentals

(A-F or Audit; )

29843 301 LEC, Completely Online; David Franke ; 3 cr.  
 29843 301 LEC, Completely Online; David Franke ; 3 cr.  
 29843 301 LEC, Completely Online; David Franke ; 3 cr.  
 29843 301 LEC, Completely Online; David Franke ; 3 cr.

#### 4217 Real Estate Development: Process and Tools

(A-F or Audit; Prereq: 45 credits. Familiarity with finance and accounting concepts helpful.)

29856 301 LEC, Completely Online; Jody Tableporter ; 2 cr.  
 29856 301 LEC, Completely Online; Jody Tableporter ; 2 cr.

#### 4501 Building and Running a Small Business Enterprise

(A-F or Audit; Prerequisites: None, although previous business experience or study will be helpful.)

29910 301 LEC, Completely Online; Geoffrey Kaufmann ; 4 cr.  
 29910 301 LEC, Completely Online; Geoffrey Kaufmann ; 4 cr.

#### 4502 Inclusive Business Leadership: Advancing Diversity

(A-F or Audit; )

33214 301 LEC, Completely Online; Ralf Schirg ; 3 cr.

#### 4515 Strategy and Management for a Sustainable Future

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

29765 301 LEC, Completely Online; Garth Hickle ; 3 cr.  
 29765 301 LEC, Completely Online; Garth Hickle ; 3 cr.

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

(A-F or Audit; WI)

29873 301 LEC, Completely Online; Ann Redelfs ; 3 cr.  
 29873 301 LEC, Completely Online; Ann Redelfs ; 3 cr.

#### 4701 Introduction to Marketing

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

29698 301 LEC, Completely Online; Kay Rindels ; 3 cr.  
 29698 301 LEC, Completely Online; Kay Rindels ; 3 cr.

#### 4702 Applied Digital Marketing

(A-F or Audit; Prerequisites: None)

29953 301 LEC, Completely Online; Jeff Neidt ; 3 cr.  
 29953 301 LEC, Completely Online; Jeff Neidt ; 3 cr.

### Applied Economics (APEC)

#### 1001 Orientation to Applied Economics

(A-F or Audit; )

21566 001 LEC, 11:45-12:35 T, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 001 AECM 1001; Garrett Steede, Frances Homans ; 1 cr.  
 22259 002 DIS, 11:45-12:35 Th, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 002 AECM 1001; Frances Homans, Garrett Steede ; 1 cr.

#### 1101 Principles of Microeconomics

(Student Option; GP,SOCS)

21970 005 DIS, 12:50-13:40 F, Ruttan Hall B25, In Person Term Based; Donald Liu ; 4 cr.  
 21971 007 DIS, 09:35-10:25 F, Biological Sciences Ctr 12, In Person Term Based; Jay Coggins ; 4 cr.  
 21980 003 DIS, 10:40-11:30 F, Ruttan Hall B25, In Person Term Based; Donald Liu ; 4 cr.  
 21981 001 LEC, 13:30-14:45 MW, Ruttan Hall B35, In Person Term Based; Donald Liu ; 4 cr.  
 21982 002 DIS, 09:35-10:25 F, Ruttan Hall B25, In Person Term Based; Donald Liu ; 4 cr.  
 21983 004 DIS, 11:45-12:35 F, Ruttan Hall B25, In Person Term Based; Donald Liu ; 4 cr.  
 22167 006 LEC, 08:45-10:00 MW, Ruttan Hall B25, In Person Term Based; Jay Coggins ; 4 cr.  
 33140 008 DIS, 10:40-11:30 F, Biological Sciences Ctr 12, In Person Term Based; Jay Coggins ; 4 cr.

#### 1101H Principles of Microeconomics

(A-F only; Prereq: Honors student, proficiency in high school algebraGP,SOCS)

21919 001 LEC, 13:00-14:15 TTh, Anderson Hall 350, In Person Term Based; Donald Liu ; 4 cr.  
 21920 003 DIS, 11:15-12:05 W, Blegen Hall 260, In Person Term Based; Donald Liu ; 4 cr.  
 22254 002 DIS, 10:10-11:00 W, Blegen Hall 260, In Person Term Based; Donald Liu ; 4 cr.

#### 1201 Applications of Excel in Economics and Management

(A-F only; )

22350 001 LAB, 11:45-12:35 TTh, Lrng & Environmental Sci 230, In Person Term Based; Thomas Durfee ; 1 cr.

#### 1251 Principles of Accounting

(A-F only; )

21567 001 LEC, 11:45-12:35 MWF, Ruttan Hall B45, In Person Term Based; Gary Cooper ; 3 cr.

#### 1905 The Ordinary Business of Life:

Issues in Business, Government, and Macroeconomics

(A-F only; Prereq: freshman)

22299 001 LEC, 15:35-18:30 Th, Blegen Hall 240, In Person Term Based; Gary Cooper ; 3 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])

21568 001 LEC, 10:15-11:30 TTh, McNeal Hall 33, In Person Term Based; Jason Kerwin ; 4 cr.  
 21569 002 DIS, 10:40-11:30 F, Ruttan Hall 143, In Person Term Based; Jason Kerwin ; 4 cr.  
 21762 003 DIS, 11:45-12:35 F, Ruttan Hall 143, In Person Term Based; Jason Kerwin ; 4 cr.

#### 3002 Applied Microeconomics: Managerial Economics

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

21570 001 LEC, 10:15-11:30 TTh, Ruttan Hall 143, In Person Term Based; Jeffrey Apland ; 4 cr.  
 21571 002 LAB, 10:40-12:35 W, Coffey Hall 50, In Person Term Based; Jeffrey Apland ; 4 cr.  
 21572 003 LAB, 12:50-14:45 W, Coffey Hall 50, In Person Term Based; Jeffrey Apland ; 4 cr.

#### 3006 Applied Macroeconomics: Government and the Economy

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

21573 001 LEC, 11:45-13:00 TTh, Alderman Hall 415, In Person Term Based; Laura Kalambokidis ; 3 cr.

#### 3202 An Introduction to the Food System: Analysis, Management and Design

(Student Option; )

22163 001 LEC, 08:45-10:00 TTh, Ruttan Hall B25, In Person Term Based; Hikaru Peterson ; 3 cr.

#### 3411 Commodity Marketing

(Student Option; Prereq: 1101 or Econ 1101)

21576 001 LEC, 09:35-10:25 M, Ruttan Hall B35, Partially Online; Meets With: 001 APEC 5411; Edward Usset ; 3 cr.

#### 3501 Agribusiness Finance

(Student Option; Prereq: [(1251 or Acct 2050)], 60 cr] or instr consent)

21577 001 LEC, 08:45-10:00 TTh, Ruttan Hall 143, In Person Term Based; Marin Bozic ; 3 cr.

#### 3511 Retail Supermarket Case Analysis

(A-F only; Prereq: APEC 1101 or 1101H or Econ 1101 or 1101H)

33173 001 LEC, 08:30-09:20 T, Magrath Library 6, 16:30-17:45 M, Magrath Library 6, In Person Term Based; Michael Boland ; 3 cr.

#### 3551 Entrepreneurship Fundamentals for Value-Added Rural Businesses

(A-F only; )

22202 001 FWK, Completely Online; Jeffrey Stamp ; 3 cr.

#### 3811 Principles of Farm Management

(Student Option; Prereq: 1101 or Econ 1101)

22011 001 LEC, 16:30-17:45 TTh, Hodson Hall 495, In Person Term Based; Kyle Jore ; 3 cr.

#### 3841 Agricultural Cooperatives and Mutuals

(Student Option; Prereq: ApEc 1101 or 1101H or Econ 1101 or 1101H)

22255 001 LEC, 16:30-17:45 M, Hodson Hall 490, Partially Online; Meets With: 001 APEC 5841; Michael Boland ; 3 cr.

#### 3991 Independent Study in Applied Economics

(Student Option; Prereq: instr consent)

21869 001 IND, Independent/Directed Study; Frances Homans ; 1-4 cr.  
 22179 002 IND, Independent/Directed Study; Michael Boland ; 1-4 cr.  
 22314 003 IND, Independent/Directed Study ; 1-4 cr.  
 33120 004 IND, Independent/Directed Study ; 1-4 cr.

#### 4451W Food Marketing Economics

(Student Option; Prereq: [(1101 or Econ 1101)], [1101H or Econ 1101H], SCO 2550 or STAT 3011 or equiv, 60 cr] or instr consent(CIV,WI))

21578 001 LEC, 11:45-13:00 TTh, Magrath Library 8, In Person Term Based; Meets With: 001 APEC 5451; Hikaru Peterson ; 3 cr.

#### 5031 Methods of Economic Data Analysis

(Student Option; Prereq: Math 1271, Stat 5021, knowledge of matrix algebra)

21774 001 LEC, 16:30-17:45 TTh, McNeal Hall 395, In Person Term Based; Caroline Carlin ; 3 cr.

#### 5151 Applied Microeconomics: Firm and Household

(Student Option; Prereq: (APEC 3001, Math 1272, and Math 2243) or equiv or grad student or instr consent)  
21652 001 LEC, 15:00-16:15 TTh, Ruttan Hall B36, In Person Term Based; Jason Kerwin ; 3 cr.

#### 5411 Commodity Marketing

(Student Option; Prereq: graduate student and 1101 or Econ 1101 )

22244 001 LEC, 09:35-10:25 M, Ruttan Hall B35, Primarily Online; Meets With: 001 APEC 3411; Edward Usset ; 3 cr.

#### 5451 Food Marketing Economics

(A-F or Audit; )

21794 001 LEC, 11:45-13:00 TTh, Magrath Library 8, In Person Term Based; Meets With: 001 APEC 4451W; Hikaru Peterson ; 3 cr.

#### 5841 Agricultural Cooperatives and Mutuals

(Student Option; )

22256 001 LEC, 16:30-17:45 M, Hodson Hall 490, Partially Online; Meets With: 001 APEC 3841; Michael Boland ; 3 cr.

#### 5991 Special Topics and Independent Study in Applied Economics

(Student Option; Prereq: instr consent)

33116 001 IND, Independent/Directed Study; ; 1-4 cr.  
33117 002 IND, Independent/Directed Study; ; 1-4 cr.  
33118 003 IND, Independent/Directed Study; ; 1-4 cr.  
33119 004 IND, Independent/Directed Study; Jason Kerwin ; 1-4 cr.

### Applied Professional Studies (APS)

#### Arabic (ARAB)

##### 1101 Beginning Arabic I

(Student Option No Audit; )

19617 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 ARAB 4101; Mohammed Hussein ; 5 cr.

19618 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 ARAB 4101; Mohammed Hussein ; 5 cr.

19619 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 ARAB 4101; Rasha El Helw ; 5 cr.

19620 004 LEC, 14:30-15:20 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 004 ARAB 4101; Hossam Elsherbiny ; 5 cr.

19621 005 LEC, 15:35-16:25 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 005 ARAB 4101; Mohammed Hussein ; 5 cr.

##### 3101 Intermediate Arabic I

(Student Option No Audit; )

18219 002 LEC, 09:05-09:55 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 ARAB 4121; Rasha El Helw ; 5 cr.

18465 001 LEC, 08:00-08:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 ARAB 4121; Rasha El Helw ; 5 cr.

19247 003 LEC, 16:40-17:30 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 ARAB 4121; Hossam Elsherbiny ; 5 cr.

##### 3290 Arabic Language Teaching Tutorial

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

19320 001 FWK, In Person Term Based; Katrien Vanpee ; 1 cr.

##### 3811 Egyptian Colloquial Arabic I

(A-F only; )

20321 001 LEC, 17:45-19:30 MW, Folwell Hall 118, In Person Term Based; Hossam Elsherbiny ; 3 cr.

##### 3993 Directed Study

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

19563 001 IND, In Person Term Based; Katrien Vanpee ; 1-3 cr.

##### 4101 Beginning Arabic I for Graduate

Student Research

(Student Option No Audit; )

18870 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 ARAB 1101; Mohammed Hussein ; 5 cr.

18872 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 ARAB 1101; Mohammed Hussein ; 5 cr.

18873 003 LEC, 13:25-14:15 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 ARAB 1101; Rasha El Helw ; 5 cr.

18874 004 LEC, 14:30-15:20 MTWThF, Folwell Hall 30, In Person Term Based; Meets With: 004 ARAB 1101; Hossam Elsherbiny ; 5 cr.

18972 005 LEC, 15:35-16:25 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 005 ARAB 1101; Mohammed Hussein ; 5 cr.

##### 4121 Intermediate Arabic I for Graduate Student Research

(Student Option No Audit; Prereq: 4102 or equiv)

18871 001 LEC, 08:00-08:50 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 ARAB 3101; Rasha El Helw ; 5 cr.

18875 002 LEC, 09:05-09:55 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 002 ARAB 3101; Rasha El Helw ; 5 cr.

19248 003 LEC, 16:40-17:30 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 003 ARAB 3101; Hossam Elsherbiny ; 5 cr.

##### 5041 Classical and Modern Arabic Prose

(A-F only; Prereq: ARAB 5102 or the equivalent thereof as established by a placement test)

32741 001 LEC, 13:00-14:15 MW, Burton Hall 123, In Person Term Based; Katrien Vanpee ; 3 cr.

##### 5101 Advanced Arabic I

(Student Option No Audit; Prereq: Grade B- or higher in 3102 or instr consent)

16994 001 LEC, 10:10-11:00 MTWTh, Folwell Hall 119, In Person Term Based; Katrien Vanpee ; 4 cr.

##### 5992 Directed Readings

(Student Option; )

35254 001 IND, In Person Term Based; Katrien Vanpee ; 1-3 cr.

### Arabic Lang/Culture in Morocco (MRCO)

### Architecture (ARCH)

##### 1281 Design Fundamentals I

(A-F only; AH)

14477 001 LEC, 14:30-15:20 Th, 10 Church Street SE 100, In Person Term Based; Mike Christenson ; 4 cr.

14478 002 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14479 003 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14480 004 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14481 005 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14482 006 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14483 007 LAB, 18:00-20:00 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14484 008 LAB, 18:00-20:00 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14485 009 LAB, 18:00-20:00 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

14487 011 LAB, 15:45-17:45 TTh, Lab TBA, In Person Term Based; Mike Christenson ; 4 cr.

##### 2301 Introduction to Drawing in

Architecture

(A-F only; Prereq: pre-arch major or BDA major; no prereq in summer)

14154 001 LAB, 08:00-09:55 MW, Rapson Hall 58, In Person Term Based; Molly Dalsin ; 4 cr.

14254 002 LAB, 10:10-12:05 MW, Rapson Hall 58, In Person Term Based; Amy Van Gessel ; 4 cr.

14449 003 LAB, 18:10-20:05 MW, Rapson Hall 58, In Person Term Based; Isaac Tapp ; 4 cr.

14504 004 LAB, 09:05-11:00 TTh, Rapson Hall 58, In Person Term Based; John Greene ; 4 cr.

14532 006 LAB, 16:00-17:55 TTh, Rapson Hall 58, In Person Term Based; Michael Gordon ; 4 cr.

14574 005 LAB, 18:10-20:05 TTh, Rapson Hall 58, In Person Term Based; Christina Stark ; 4 cr.

##### 3212 BDA: Analytical Modeling of Contemporary Architecture

(A-F only; )

14621 001 LEC, 14:25-17:25 MWF, Rapson Hall 251, In Person Term Based; Theodore Wright, Mark Tambornino, Gayla Lindt ; 3 cr.

##### 3250 BDA: Design Workshop

(A-F only; Prereq: 2281, [Arch BA or BDA major])

34463 002 LEC, 14:25-17:25 TTh, Rapson Hall 251, In Person Term Based; Todd Rhoades, Gayla Lindt ; 1-6 cr.

34465 003 LEC, 14:25-17:25 TTh, Rapson Hall 251, In Person Term Based; Dzenita Hadziomerovic, Gayla Lindt ; 1-6 cr.

34466 004 LEC, 13:25-16:25 MF, Rapson Hall 251, In Person Term Based; Michael Bjornberg, Gayla Lindt ; 1-6 cr.

34468 005 LEC, 14:25-17:25 TTh, Rapson Hall 251, In Person Term Based; Hans-Christian Karlberg, Gayla Lindt ; 1-6 cr.

34469 006 LEC, 13:25-17:25 MF, Rapson Hall 251, In Person Term Based; Mary Guzowski, Gayla Lindt ; 1-6 cr.

34470 007 LEC, 14:30-18:30 MW, Rapson Hall 251, In Person Term Based; Mark Tambornino, Gayla Lindt ; 1-6 cr.

##### 3281 Undergraduate Architecture Studio I

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

14260 001 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; Malini Srivastava ; 6 cr.

35528 002 LAB, 13:25-17:30 MWF, No Room Required, In Person Term Based; Robert Ganser ; 6 cr.

35529 003 LAB, 13:25-17:30 MWF, No Room Required, In Person Term Based; Samuel Daley ; 6 cr.

35530 004 LAB, 13:25-17:30 MWF, No Room Required, In Person Term Based; Cara Prosser ; 6 cr.

##### 3351 AutoCAD I

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

34498 001 LEC, 18:30-21:00 M, Rapson Hall 33, In Person Term Based; Darin Duch ; 3 cr.

##### 3391 Design and Representation with BIM

(A-F or Audit; )

14578 001 LEC, 18:00-20:30 T, McNeal Hall 305, In Person Term Based; Benjamin Delwiche ; 3 cr.

##### 3411W Architectural History to 1750

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

14446 001 LEC, 09:45-11:00 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 3411W; Robert Ferguson ; 3 cr.

14447 002 DIS, 13:25-14:15 T, Rapson Hall 109, In Person Term Based; Robert Ferguson ; 3 cr.

##### 3411W Architectural History to 1750

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

14149 001 LEC, 09:45-11:00 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 3411W; Robert Ferguson ; 3 cr.

14150 002 DIS, 14:30-15:20 T, Rapson Hall 58, In Person Term Based; Robert Ferguson ; 3 cr.

14151 005 DIS, 09:05-09:55 F, Akerman Hall 227, In Person Term Based; 3 cr.

14152 010 DIS, 11:15-12:05 F, Akerman Hall 211, In Person Term Based; 3 cr.

14153 013 DIS, 09:05-09:55 F, Akerman Hall 211, In Person Term Based; Robert Ferguson ; 3 cr.

14259 008 DIS, 10:10-11:00 F, Akerman Hall 211, In Person Term Based; 3 cr.

##### 3611 Design in the Digital Age

(A-F or Audit; )

14657 001 LEC, 08:00-08:50 MWF, Rapson Hall 56, In Person Term Based; Phillip Rader ; 3 cr.

##### 3711V Honors: Environmental Design and the Sociocultural Context

(A-F only; Prereq: Honors, [soph or above]CIV,WI,SOCS)

14202 001 LEC, 11:15-12:30 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 3711W; James Wheeler ; 3 cr.

14203 002 DIS, 13:25-14:15 Th, Rapson Hall 35, In Person Term Based; James Wheeler ; 3 cr.

##### 3711W Environmental Design and the Sociocultural Context

(A-F only; Prereq: Soph or aboveCIV,WI,SOCS)

14155 001 LEC, 11:15-12:30 TTh, Rapson Hall 100, In Person Term Based; Meets With: 001 ARCH 3711W; James Wheeler ; 3 cr.

14156 002 DIS, 10:10-11:00 F, Rapson Hall 45, In Person Term Based; James Wheeler ; 3 cr.

14157 003 DIS, 15:35-16:25 Th, Rapson Hall 100, In Person Term Based; James Wheeler ; 3 cr.  
 14158 004 DIS, 14:30-15:20 Th, Rapson Hall 58, In Person Term Based; James Wheeler ; 3 cr.  
 14159 005 DIS, 11:15-12:05 F, Rapson Hall 58, In Person Term Based; James Wheeler ; 3 cr.  
 14262 011 DIS, 09:05-09:55 F, Rapson Hall 58, In Person Term Based; James Wheeler ; 3 cr.  
 14625 006 DIS, 13:25-14:15 Th, Cooke Hall 215, In Person Term Based; James Wheeler ; 3 cr.  
 35405 012 DIS, 13:25-14:15 Th, Amundson Hall 116, In Person Term Based; James Wheeler ; 3 cr.

**3993 Directed Study**

(A-F only; Prereq: instr consent)  
 14691 003 IND, In Person Term Based; Mary Guzowski ; 1-3 cr.  
 35039 006 IND, In Person Term Based; Dan Handeen ; 1-3 cr.  
 35598 007 IND, In Person Term Based; Katherine Solomonson ; 1-3 cr.  
 35626 010 IND, In Person Term Based; Robert Ganser ; 1-3 cr.

**4194H Thesis/Capstone Project**

(A-F only; Prereq: Arch major, sr, honors)  
 14455 001 IND, 09:00-11:00 Th, Room TBA, Independent/ Directed Study; Gail Dubrow ; 3 cr.

**4283 Undergraduate Architecture Studio III**

(A-F only; Prereq: [3282 or 4282], B.S. Arch major)  
 14261 001 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; Jennifer Newsom ; 6 cr.  
 35399 002 LAB, 13:25-17:30 MWF, Room TBA, In Person Term Based; Nina Ebbighausen ; 6 cr.  
 35400 003 LAB, 13:25-17:30 MWF, Room TBA, In Person Term Based; Daniel Winden ; 6 cr.  
 35401 004 LAB, 13:25-17:30 MWF, Room TBA, In Person Term Based; Athar Mufreh ; 6 cr.

**4321 Architecture in Watercolor**

(A-F or Audit; Prereq: 2301)  
 14249 001 LEC, 18:10-20:40 W, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 5321; Monica Fogg ; 3 cr.

**4341 Architecture Portfolio Design**

(A-F only; )  
 14554 001 LAB, 11:15-12:30 TTh, Rapson Hall 58, In Person Term Based; Martha McQuade ; 3 cr.

**4434 Contemporary Architecture**

(A-F or Audit; Prereq: 3412 or instr consent)  
 33711 001 LEC, 13:00-14:15 TTh, Rapson Hall 43, In Person Term Based; Daniela Sandler ; 3 cr.

**4435 History of American Architecture**

(A-F or Audit; )  
 33428 001 LEC, 13:00-14:15 TTh, Rapson Hall 58, In Person Term Based; Meets With: 001 ARCH 5435; Katherine Solomonson ; 3 cr.

**4511 Materials and Methods I**

(A-F or Audit; Prereq: BS Arch major or BDA major jr/ sr)  
 14263 001 LEC, 09:45-11:00 MW, Rapson Hall 45, In Person Term Based; Dan Handeen ; 3 cr.

**4521 Environmental Technology I**

(A-F or Audit; Prereq: BS Arch major)  
 14551 001 LEC, 14:30-15:45 TTh, Rapson Hall 43, In Person Term Based; Patrick Smith ; 3 cr.

**4571 Architectural Structures I**

(A-F or Audit; Prereq: BS Arch major)  
 14265 002 LEC, 16:00-17:15 TTh, Rapson Hall 43, In Person Term Based; Meghan Cronin ; 3 cr.

**4672 Historic Building Conservation**

(A-F or Audit; Prereq: 4671 or concurrent enrollment in 4671 or instr consent)  
 34521 001 LEC, 09:05-12:05 F, Rapson Hall 35, In Person Term Based; Meets With: 001 ARCH 5672; Todd Grover ; 3 cr.

**5212 Undergraduate Architecture Studio 05: Advanced Design**

(A-F only; Prereq: C- or better in 3281, 3282, 4283, 4284)  
 14579 001 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; Julia Robinson, Daniel Treinen ; 6 cr.  
 14692 002 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; James Kehl, Nat Madson ; 6 cr.  
 14693 003 LAB, 13:25-17:30 MWF, Lab TBA, In Person Term Based; Todd Grover, Angela Wolf Scott ; 6 cr.

**5321 Architecture in Watercolor**

(A-F or Audit; Prereq: M Arch grad student or instr consent)  
 14185 001 LEC, 18:10-20:40 W, Rapson Hall 45, In Person Term Based; Meets With: 001 ARCH 4321; Monica Fogg ; 3 cr.

**5392 Digital Documentation: Facades**

(A-F or Audit; )  
 14580 001 LEC, 18:00-20:40 T, Rapson Hall 43, In Person Term Based; Alex Terzich ; 3 cr.

**5411 Principles of Design Theory**

(A-F or Audit; Prereq: M Arch major or instr consent)  
 34402 001 LEC, 11:15-12:30 MW, Rapson Hall 56, In Person Term Based; Vahan Misakyan ; 3 cr.

**5412 Architecture: A Global and Cultural History**

(A-F only; )  
 14552 001 LEC, 09:45-11:00 TTh, Akerman Hall 327, In Person Term Based; Daniela Sandler ; 3 cr.

**5435 History of American Architecture**

(A-F or Audit; )  
 33430 001 LEC, 13:00-14:15 TTh, Rapson Hall 58, In Person Term Based; Meets With: 001 ARCH 4435; Katherine Solomonson ; 3 cr.

**5562 Tech 2, Intro to Building Technology**

(A-F only; Prereq: M.Arch or instr consent)  
 14507 001 LEC, 11:15-12:30 TTh, Rapson Hall 43, In Person Term Based; Jacob Mans ; 3 cr.

**5563 Tech 3: Advanced Building**

**Technology Integrated Building Systems**  
 (A-F only; Prereq: M.Arch or instr consent)  
 14528 001 LEC, 09:45-11:00 TTh, Rapson Hall 43, In Person Term Based; Jacob Mans ; 3 cr.

**5564 Tech 4: Building Structural Systems**

(A-F only; Prereq: M.Arch or instr consent)  
 14529 001 LEC, 08:15-09:30 TTh, Rapson Hall 43, In Person Term Based; Kirk Davis ; 3 cr.

**5609 Development and Implementation of Research**

(A-F only; Prereq: instr consent)  
 14503 001 DIS, 09:45-11:00 MW, Rapson Hall 109, In Person Term Based; Lisa Hsieh ; 3 cr.

**5621 Professional Practice in Architecture**

(A-F or Audit; Prereq: M Arch major or instr consent)  
 14198 001 LEC, 13:00-14:15 TTh, Rapson Hall 45, In Person Term Based; Catherine Malmberg ; 3 cr.

**5630 Practicum: Advanced Issues in Practice**

(S-N only; Prereq: M.S. Architecture or M.Arch)  
 14509 001 LEC, In Person Term Based; Dustin Schipper ; 3 cr.

**5671 Historic Preservation**

(Student Option; )  
 14654 001 LEC, 09:45-12:30 T, Rapson Hall 109, In Person Term Based; Gregory Donofrio ; 3 cr.

**5672 Historic Building Conservation**

(Student Option; Prereq: 3412, 5671 or instr consent)  
 34403 001 LEC, 09:05-12:05 F, Rapson Hall 35, In Person Term Based; Meets With: 001 ARCH 4672; Todd Grover ; 3 cr.

**5686 Research Practices Final Project:**

**Research into Practice**  
 (A-F only; Prereq: MS-RP student)  
 14557 001 FWK, 00:00-00:00 , In Person Term Based; Malini Srivastava ; 4 cr.

**5731 Territorial City**

(A-F only; )  
 34385 001 LEC, 11:15-12:30 TTh, Northrop Memorial Aud 110, In Person Term Based; Gabriel Cuellar ; 3 cr.

**5993 Directed Study**

(A-F or Audit; Prereq: instr consent)  
 14676 001 IND, In Person Term Based; Monica Fogg ; 1-4 cr.  
 14681 002 IND, In Person Term Based; Richard Graves ; 1-4 cr.  
 14684 003 IND, In Person Term Based; Daniela Sandler ; 1-4 cr.

14685 004 IND, In Person Term Based; Julia Robinson ; 1-4 cr.  
 14686 005 IND, In Person Term Based; 1-4 cr.  
 34937 008 IND, In Person Term Based; Malini Srivastava ; 1-4 cr.  
 35001 009 IND, In Person Term Based; Daniela Sandler ; 1-4 cr.  
 35242 010 IND, In Person Term Based; Julia Robinson ; 1-4 cr.  
 35463 011 IND, In Person Term Based; Robert Ferguson ; 1-4 cr.  
 35495 012 IND, In Person Term Based; Malini Srivastava ; 1-4 cr.  
 35591 013 IND, In Person Term Based; Thomas Fisher ; 1-4 cr.  
 35606 014 IND, In Person Term Based; Julia Robinson ; 1-4 cr.  
 35613 015 IND, In Person Term Based; Richard Graves ; 1-4 cr.

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

(Student Option; DSJ,AH)  
 17863 001 LEC, 09:05-10:00 F, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 1001H; Christina Schmid ; 3 cr.  
 19676 004 DIS, 10:00-12:05 F, Regis Center for Art W132, In Person Term Based; Christina Schmid ; 3 cr.  
 20137 002 DIS, 10:00-12:05 F, Regis Center for Art W247, In Person Term Based; Christina Schmid ; 3 cr.  
 20138 003 DIS, 10:00-12:05 F, Regis Center for Art E110, In Person Term Based; Christina Schmid ; 3 cr.  
 20139 005 LEC, 09:05-09:35 MW, Regis Center for Art E110, In Person Term Based; Christina Schmid ; 3 cr.  
 20140 006 DIS, 09:35-10:35 MW, Regis Center for Art E110, In Person Term Based; Christina Schmid ; 3 cr.  
 20141 007 DIS, 09:35-10:35 MW, Regis Center for Art W247, In Person Term Based; Christina Schmid ; 3 cr.

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

(A-F or Audit; Prereq: Honors student AH,DSJ)  
 20466 001 LEC, 09:05-10:00 F, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 1001; Christina Schmid ; 3 cr.  
 20467 002 DIS, 10:00-12:05 F, Regis Center for Art E231, In Person Term Based; Christina Schmid ; 3 cr.

**1101 Introduction to Drawing**

(Student Option; AH)  
 16977 001 LAB, 09:05-12:05 MW, Regis Center for Art W260, In Person Term Based; Travis McEwen ; 4 cr.  
 16978 002 LAB, 13:25-16:25 MW, Regis Center for Art W270, In Person Term Based; Lamar Peterson ; 4 cr.  
 16979 003 LAB, 18:00-22:00 M, Regis Center for Art W270, In Person Term Based; Jim Hittinger ; 4 cr.  
 16980 005 LAB, 09:05-12:05 TTh, Regis Center for Art W270, In Person Term Based; Omri Zin-Tamir ; 4 cr.  
 16981 006 LAB, 13:25-16:25 TTh, Regis Center for Art W260, In Person Term Based; Clarence Morgan ; 4 cr.  
 19653 007 LAB, 18:00-22:00 T, Regis Center for Art W260, In Person Term Based; Sean Connaughty ; 4 cr.  
 19654 008 LAB, 18:00-22:00 Th, Regis Center for Art W260, In Person Term Based; Leslie Barlow ; 4 cr.  
 19954 009 LAB, 10:10-14:10 F, Regis Center for Art W260, In Person Term Based; Nooshin Hakim Javadi ; 4 cr.  
 20468 010 LAB, 10:10-14:10 Sa, Regis Center for Art W270, In Person Term Based; Nooshin Hakim Javadi ; 4 cr.  
 32672 004 LAB, 18:00-22:00 W, Regis Center for Art W260, In Person Term Based; Sean Connaughty ; 4 cr.

**1102 Introduction to Painting**

(Student Option; AH)  
 16995 001 LAB, 09:05-12:05 MW, Regis Center for Art W268, In Person Term Based; Mathew Zefeldt ; 4 cr.  
 19927 002 LAB, 13:25-16:25 MW, Regis Center for Art W264, In Person Term Based; Travis McEwen ; 4 cr.  
 34081 003 LAB, 13:25-16:25 TTh, Regis Center for Art W268, In Person Term Based; Kristen Sanders ; 4 cr.

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

(Student Option; AH)  
 18294 001 LAB, 09:05-12:05 MW, Regis Center for Art W189, In Person Term Based; Roger Ourthague ; 4 cr.  
 19505 002 LAB, 18:00-21:00 TTh, Regis Center for Art W189, In Person Term Based; Drew Peterson ; 4 cr.

**1107 Introduction to Digital Drawing**

(Student Option; AH)

20469 001 LAB, 13:25-16:25 TTh, Regis Center for Art W240, In Person Term Based; Mark Schoening ; 4 cr.  
32673 002 LAB, 18:00-22:00 M, Regis Center for Art W240, In Person Term Based; Mark Schoening ; 4 cr.  
32674 003 LAB, 10:10-14:10 F, Regis Center for Art W240, In Person Term Based; Avigail Manneberg ; 4 cr.

**1202 Art and Yoga: Combining Somatic, Contemplative, and Creative Practices (A-F only ;)**

34061 001 LEC, 13:25-16:25 W, Regis Center for Art E110, In Person Term Based; Jan Estep ; 3 cr.

**1701 Introduction to Photography (Student Option; AH)**

16971 001 LAB, 13:25-16:25 MW, Regis Center for Art W137, In Person Term Based; Sarah Sampedro ; 4 cr.  
16972 002 LAB, 13:25-16:25 MW, Regis Center for Art W132, In Person Term Based; Pao Her ; 4 cr.  
16973 003 LAB, 09:05-12:05 TTh, Regis Center for Art W137, In Person Term Based; Beth Dow ; 4 cr.  
19655 004 LAB, 09:05-12:05 TTh, Regis Center for Art W132, In Person Term Based; Sarah Sampedro ; 4 cr.  
19939 005 LAB, 18:00-21:00 MW, Regis Center for Art W137, In Person Term Based; Xavier Tavera Castro ; 4 cr.  
19940 006 LAB, 18:00-21:00 MW, Regis Center for Art W132, In Person Term Based; Pao Her ; 4 cr.  
34576 007 LAB, 09:00-14:00 F, Regis Center for Art W137, In Person Term Based; Beth Dow ; 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)

16990 001 LAB, 09:05-11:05 MW, Regis Center for Art W248, In Person Term Based; Rolf Belgium ; 4 cr.  
17614 002 LAB, 13:25-15:25 TTh, Regis Center for Art W248, In Person Term Based; Kevin Obsatz ; 4 cr.  
17615 003 LAB, 13:25-15:25 MW, Regis Center for Art W248, In Person Term Based; Rolf Belgium ; 4 cr.  
20916 004 LAB, 10:10-14:10 F, Regis Center for Art W248, In Person Term Based; Rolf Belgium ; 4 cr.

**1801 Introduction to Ceramics**

(Student Option; AH)

16987 002 LAB, 09:05-12:05 MW, Regis Center for Art E154, In Person Term Based; Ginny Sims-Burchard ; 4 cr.  
16988 003 LAB, 18:00-21:00 MW, Regis Center for Art E154, In Person Term Based; Priya Thoresen ; 4 cr.  
17616 001 LAB, 09:05-12:05 MW, Regis Center for Art E156, In Person Term Based; Tetsuya Yamada ; 4 cr.  
17949 004 LAB, 09:05-12:05 TTh, Regis Center for Art E154, In Person Term Based; Thomas Lane ; 4 cr.  
19925 005 LAB, 09:05-12:05 TTh, Regis Center for Art E156, In Person Term Based; Stephanie DeArmond ; 4 cr.

**1802 Introduction to Sculpture**

(Student Option; AH)

17950 001 LAB, 09:05-12:05 MW, Regis Center for Art E117, In Person Term Based; Rotem Tamir ; 4 cr.  
17951 002 LAB, 13:25-16:25 MW, Regis Center for Art E117, In Person Term Based; Rotem Tamir ; 4 cr.  
17952 003 LAB, 09:05-12:05 TTh, Regis Center for Art E117, In Person Term Based; Chris Larson ; 4 cr.

**1803 Introduction to Sculpture and Ceramics**

(Student Option; )

20474 001 LAB, 13:25-16:25 TTh, Regis Center for Art E154, In Person Term Based; Allison Craver ; 4 cr.

**1913 Seeing and Sensing the Mississippi**

(A-F only ;)

34062 001 DIS, 13:25-16:25 M, Regis Center for Art W123, In Person Term Based; Diane Willow ; 3 cr.

**3120 Intermediate Painting**

(Student Option; Prereq: 1102)

16970 001 LAB, 09:05-12:05 TTh, Regis Center for Art W268, In Person Term Based; Mathew Zefeldt ; 4 cr.

**3130 Intermediate Printmaking: Traditional and Contemporary Approaches**

(Student Option; Prereq: 1103 or 1104)

20536 001 LAB, 13:25-16:25 TTh, Regis Center for Art W189, In Person Term Based; Jenny Schmid ; 4 cr.

**3140 Figure Drawing**

(Student Option; Prereq: 1101 or 1104)

20481 001 LAB, 09:05-12:05 MW, Regis Center for Art W270, In Person Term Based; Lamar Peterson ; 4 cr.

**3180 Zines, Comics, and Books**

(A-F or Audit; )

20482 001 LAB, 09:05-12:05 TTh, Regis Center for Art W240, In Person Term Based; Corinne Teed ; 4 cr.

**3190 Watercolor Painting**

(Student Option; Prerequisites: ARTS 1101, 1102, or 1104)

20483 001 LAB, 13:25-16:25 TTh, Regis Center for Art W270, In Person Term Based; Laura Stack ; 4 cr.

**3206W Art + Ecology**

(A-F or Audit; WI)

20484 001 LEC, 13:25-14:55 TTh, Regis Center for Art W123, In Person Term Based; Christine Baeumler ; 4 cr.

**3250 Art + Performance**

(Student Option; )

32718 001 LAB, 09:05-12:05 TTh, Regis Center for Art W130, In Person Term Based; Meets With: 001 ARTS 5250; Emmett Ramstad ; 4 cr.

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

(A-F or Audit; Prereq: [junior] or instr consentAH,WI,CIV)

20476 001 LEC, 09:05-11:35 Th, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 3401W; Regan Golden-McNerney ; 3 cr.

**3401W Critical Theories and Their**

**Construction From a Studio Perspective**

(Student Option; Prereq: instr consentWI,CIV,AH)

19475 001 LEC, 09:05-11:35 Th, Regis Center for Art E110, In Person Term Based; Meets With: 001 ARTS 3401W; Regan Golden-McNerney ; 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)

20477 001 LEC, 18:00-20:30 T, Regis Center for Art E110, In Person Term Based; Christine Baeumler ; 3 cr.

**3720 The Extended Image**

(Student Option; Prereq: 1701)

32675 001 LAB, 09:05-12:05 MW, Regis Center for Art W132, In Person Term Based; Jeffrey Millikan ; 4 cr.

**3730 Intermediate Digital Photography**

(Student Option; Prereq: 1701)

20522 001 LAB, 13:25-16:25 TTh, Regis Center for Art W137, In Person Term Based; Monica Moses Haller ; 4 cr.

**3740 Lighting and the Constructed Image**

(Student Option; Prereq: ARTS 1701 Introduction to Photography)

20485 001 LAB, 13:25-16:25 MW, Regis Center for Art W121, In Person Term Based; Xavier Tavera Castro ; 4 cr.

**3760 Experimental Film and Video**

(Student Option; Prereq: 1704)

19945 001 LAB, 18:00-22:00 T, Regis Center for Art W121, In Person Term Based; Kevin Obsatz ; 4 cr.

**3770 Animation**

(Student Option; Prereq: 1704)

17833 001 LAB, 18:00-22:00 W, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 5770; Shannon Gilley ; 4 cr.  
19929 002 LAB, 10:10-14:10 F, Regis Center for Art W121, In Person Term Based; Meets With: 002 ARTS 5770; Shannon Gilley ; 4 cr.

**3780 Super 8 and 16 MM Filmmaking**

(A-F or Audit; )

20616 001 LAB, 18:00-22:00 Th, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 5780; Sam Hoolihan ; 4 cr.

**3820 Ceramic: Wheel Throwing**

(Student Option; Prereq: 1801)

17797 001 LAB, 13:25-16:25 TTh, Regis Center for Art E156, In Person Term Based; Thomas Lane ; 4 cr.

**3830 Ceramic Sculpture**

(Student Option; Prereq: 1801)

17939 001 LAB, 13:25-16:25 MW, Regis Center for Art E156, In Person Term Based; Erin Paradis ; 4 cr.

**3850 Foundry and Metal Sculpture**

(Student Option; Prereq: 1802)

19484 001 LAB, 10:00-14:00 F, Regis Center for Art E170, In Person Term Based; Meets With: 001 ARTS 5850; Paul Linden ; 4 cr.

**3860 Sculpture and Installation**

(Student Option; Prereq: 1802 )

20523 001 LAB, 13:25-16:25 TTh, Regis Center for Art E123, In Person Term Based; Meets With: 001 ARTS 5860; Chris Larson ; 4 cr.

**3890 3D Modeling and Digital Fabrication**

(Student Option; )

20524 001 LAB, 18:00-22:00 W, Regis Center for Art W248, In Person Term Based; Meets With: 001 ARTS 5890; Robin Schwartzman ; 4 cr.

**5110 Advanced Drawing**

(Student Option; Prereq: previously completed a 3XXX course in Drawing or Painting)

17057 001 LAB, 13:25-16:25 MW, Regis Center for Art W187, In Person Term Based; Meets With: 001 ARTS 5140; Drew Peterson ; 4 cr.

**5120 Advanced Painting**

(Student Option; Prereq: 3120 or instr consent)

17036 001 LAB, 09:05-12:05 TTh, Regis Center for Art W264, In Person Term Based; Clarence Morgan ; 4 cr.

**5140 Advanced Printmaking**

(Student Option; Prereq: ARTS 3130 Intermediate Printmaking or permission of instructor.)

18210 001 LAB, 13:25-16:25 MW, Regis Center for Art W187, In Person Term Based; Meets With: 001 ARTS 5110; Drew Peterson ; 4 cr.

**5250 Art + Performance**

(Student Option; )

34491 001 LAB, 09:05-12:05 TTh, Regis Center for Art W130, In Person Term Based; Meets With: 001 ARTS 3250; Emmett Ramstad ; 4 cr.

**5401W BFA Seminar Capstone 1: Concepts and Practices in Art**

(Student Option; WI)

17864 001 LEC, 10:10-12:40 F, Regis Center for Art W257, In Person Term Based; Aaron Van Dyke ; 3 cr.

**5404 BA Capstone and Exhibition**

(S-N only; )

20519 001 DIS, 09:00-12:00 F, Regis Center for Art W244, In Person Term Based; Emmett Ramstad ; 3 cr.

**5710 Advanced Photography**

(Student Option; Prereq: Two semesters of 3xxx photography or instr consent)

20918 001 LAB, 09:05-12:05 TTh, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 5760; Lynn Lukkas ; 4 cr.

**5760 Experimental Film and Video**

(Student Option; Prereq: 3760)

19946 001 LAB, 09:05-12:05 TTh, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 5710; Lynn Lukkas ; 4 cr.

**5770 Animation**

(Student Option; Prereq: 3770)

17834 001 LAB, 18:00-22:00 W, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 3770; Shannon Gilley ; 4 cr.  
19930 002 LAB, 10:10-14:10 F, Regis Center for Art W121, In Person Term Based; Meets With: 002 ARTS 3770; Shannon Gilley ; 4 cr.

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

(A-F or Audit; )

20617 001 LAB, 18:00-22:00 Th, Regis Center for Art W121, In Person Term Based; Meets With: 001 ARTS 3780; Sam Hoolihan ; 4 cr.

**5810 Advanced Ceramics**

(Student Option; Prereq: 3820 and 3830)

17038 001 LAB, 13:25-16:25 MW, Regis Center for Art E155, In Person Term Based; Tetsuya Yamada ; 4 cr.

**5850 Advanced Foundry and Metal Sculpture**

(Student Option; Prereq: 3850 or instr consent)

20150 001 LAB, 10:00-14:00 F, Regis Center for Art E170, In Person Term Based; Meets With: 001 ARTS 3850; Paul Linden ; 4 cr.

**5860 Advanced Sculpture**

(Student Option; )

20525 001 LEC, 13:25-16:25 TTh, Regis Center for Art E123, In Person Term Based; Meets With: 001 ARTS 3860; Chris Larson ; 4 cr.

**5890 3D Modeling and Digital Fabrication**

(Student Option; )  
20526 001 LAB, 18:00-22:00 W, Regis Center for Art W248, In Person Term Based; Meets With: 001 ARTS 3890; Robin Schwartzman ; 4 cr.

**5990 Independent Study in Art**

(Student Option; Prereq: Major, completed regular course with instructor, instr consent)  
17237 011 IND, In Person Term Based; Jenny Schmid ; 1-4 cr.

**Art History (ARTH)****1002W Why Art Matters**

(Student Option; AH,WI,GP)  
19854 001 LEC, 09:05-09:55 MWF, West Bank Skyway 20, In Person Term Based; Shannon Flaherty ; 4 cr.  
19855 002 DIS, 10:10-11:00 M, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.  
19856 003 DIS, 08:00-08:50 W, Carlson School of Mgmt 2-219, In Person Term Based; 4 cr.  
20451 004 DIS, 10:10-11:00 W, Blegen Hall 155, In Person Term Based; 4 cr.  
20452 005 DIS, 10:10-11:00 F, Carlson School of Mgmt 2-219, In Person Term Based; 4 cr.

**1004W Introduction to Asian Art**

(Student Option; HIS,WI)  
20579 001 LEC, 09:45-11:00 MW, Hubert H. Humphrey School 25, In Person Term Based; Daniel Greenberg ; 3 cr.

**1921W Introduction to Film Study**

(Student Option; AH,WI)  
17167 001 LEC, 12:20-14:15 TTh, Blegen Hall 5, In Person Term Based; Robert Silberman ; 4 cr.  
18961 002 DIS, 12:20-13:10 M, Blegen Hall 225, In Person Term Based; 4 cr.  
18962 003 DIS, 12:20-13:10 M, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
19857 004 DIS, 12:20-13:10 W, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
20453 005 DIS, 12:20-13:10 W, Carlson School of Mgmt 1-142, In Person Term Based; 4 cr.

**3009 Medieval Art**

(Student Option; AH)  
20581 001 LEC, 13:00-14:15 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 MEST 3009001 RELS 3609; Jennifer Awes-Freeman ; 3 cr.

**3311 Baroque Art in Seventeenth Century Europe**

(Student Option; AH)  
32776 001 LEC, 09:45-11:00 TTh, Blegen Hall 130, In Person Term Based; Steven Ostrow ; 3 cr.

**3313 Spanish Baroque Masters: Tradition and Experimentation in Golden Age Spain**

(Student Option; HIS)  
34092 001 LEC, 13:00-14:15 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 ARTH 5313; Steven Ostrow ; 3 cr.

**3315 The Age of Curiosity: Art and Knowledge in Europe, 1500-1800.**

(Student Option; AH,TS)  
33025 001 LEC, 10:10-11:00 MW, Blegen Hall 10, In Person Term Based; Meets With: 001 HIST 3708; JB Shank ; 3 cr.  
33029 002 DIS, 10:10-11:00 F, Blegen Hall 240, In Person Term Based; Meets With: 002 HIST 3708; 3 cr.  
33031 004 DIS, 11:15-12:05 F, Blegen Hall 240, In Person Term Based; Meets With: 004 HIST 3708; 3 cr.

**3434 Art and the Environment**

(Student Option; AH,ENV)  
32780 001 LEC, 09:05-09:55 MW, Hanson Hall 1-107, In Person Term Based; Jane Blocker ; 3 cr.  
32781 002 DIS, 10:10-11:00 W, Hubert H. Humphrey School 60, In Person Term Based; 3 cr.  
32782 003 DIS, 10:10-11:00 F, Carlson School of Mgmt 1-143, In Person Term Based; 3 cr.

**3464 Art Since 1945**

(Student Option; HIS)  
20580 001 LEC, 11:15-12:30 MW, Anderson Hall 230, In Person Term Based; Emily Capper ; 3 cr.

**3577 Photo Nation: Photography in America**

(Student Option; AH)  
34024 001 LEC, 09:45-11:00 TTh, Blegen Hall 215, In Person Term Based; Colleen Stockmann ; 3 cr.

**3896 Directed Professional Experience**

(Student Option; Prereq: instr consent)  
18193 001 IND, 00:00-00:00 , In Person Term Based; Gilliane Monnier ; 1-2 cr.

**3971V Honors: Art History Capstone**

(A-F only; WI)  
18963 001 LEC, In Person Term Based; Angelica Maier ; 3 cr.  
20364 002 IND, 14:30-17:00 W, Hubert H. Humphrey School 35, In Person Term Based; Meets With: 002 ARTH 3971W; Angelica Maier ; 3 cr.

**3971W Art History Capstone**

(A-F only; Prereq: Arth major, instr consentWI)  
18192 002 IND, 14:30-17:00 W, Hubert H. Humphrey School 35, In Person Term Based; Meets With: 002 ARTH 3971W; Angelica Maier ; 3 cr.  
20372 001 LEC, In Person Term Based; Angelica Maier ; 3 cr.

**3993 Directed Study**

(A-F or Audit; Prereq: instr consent)  
18052 001 IND, 00:00-00:00 , In Person Term Based; Jane Blocker ; 1-4 cr.  
18053 002 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
18054 003 IND, 00:00-00:00 , In Person Term Based; Sinem Casale ; 1-4 cr.  
18055 004 IND, 00:00-00:00 , In Person Term Based; Michael Gaudio ; 1-4 cr.  
18057 006 IND, 00:00-00:00 , In Person Term Based; Steven Ostrow ; 1-4 cr.  
18058 007 IND, 00:00-00:00 , In Person Term Based; Anna Seastrand ; 1-4 cr.  
18061 010 IND, 00:00-00:00 , In Person Term Based; Peng Peng ; 1-4 cr.  
19453 011 IND, 00:00-00:00 , In Person Term Based; Emily Capper ; 1-4 cr.

**3994 Directed Research**

(A-F or Audit; Prereq: instr consent)  
19454 002 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
19455 003 IND, 00:00-00:00 , In Person Term Based; Sinem Casale ; 1-4 cr.  
19456 004 IND, 00:00-00:00 , In Person Term Based; Michael Gaudio ; 1-4 cr.  
19457 005 IND, 00:00-00:00 , In Person Term Based; Jennifer Marshall ; 1-4 cr.  
19458 006 IND, 00:00-00:00 , In Person Term Based; Steven Ostrow ; 1-4 cr.  
19459 007 IND, 00:00-00:00 , In Person Term Based; Anna Seastrand ; 1-4 cr.  
19460 008 IND, 00:00-00:00 , In Person Term Based; Robert Silberman ; 1-4 cr.  
19461 009 IND, 00:00-00:00 , In Person Term Based; Jennifer Awes-Freeman ; 1-4 cr.  
19462 010 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
19463 011 IND, 00:00-00:00 , In Person Term Based; Emily Capper ; 1-4 cr.

**5313 Spanish Baroque Masters: Tradition and Experimentation in Golden Age Spain**

(Student Option; HIS)  
34093 001 LEC, 13:00-14:15 TTh, Blegen Hall 125, In Person Term Based; Meets With: 001 ARTH 3313; Steven Ostrow ; 3 cr.

**5766 Chinese Painting**

(Student Option; )  
34378 001 LEC, 13:00-14:15 MW, Blegen Hall 115, In Person Term Based; Daniel Greenberg ; 3 cr.

**5993 Directed Study**

(A-F or Audit; Prereq: instr consent)  
17577 001 IND, 00:00-00:00 , In Person Term Based; Jane Blocker ; 1-4 cr.  
17922 002 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
18063 004 IND, 00:00-00:00 , In Person Term Based; Michael Gaudio ; 1-4 cr.  
18065 006 IND, 00:00-00:00 , In Person Term Based; Steven Ostrow ; 1-4 cr.  
18066 007 IND, 00:00-00:00 , In Person Term Based; Anna Seastrand ; 1-4 cr.  
18067 008 IND, 00:00-00:00 , In Person Term Based; Robert Silberman ; 1-4 cr.  
18068 009 IND, 00:00-00:00 , In Person Term Based; Jennifer Awes-Freeman ; 1-4 cr.

18964 010 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
19464 011 IND, 00:00-00:00 , In Person Term Based; Emily Capper ; 1-4 cr.  
20068 012 IND, 00:00-00:00 , In Person Term Based; 1-4 cr.  
20779 013 IND, In Person Term Based; Katherine Solomonson ; 1-4 cr.

**5994 Directed Research**

(A-F or Audit; Prereq: instr consent)  
18194 001 IND, 00:00-00:00 , In Person Term Based; Jennifer Marshall ; 1-4 cr.

**Arts and Cultural Leadership (ACL)****5211 Trends and Impacts in Arts and Cultural Leadership and Management**

(A-F or Audit; )  
33843 001 LEC, 18:00-20:30 W, Carlson School of Mgmt 2-228, In Person Term Based; Deanna Cummings, Roger Cummings ; 3 cr.

**5993 Directed Studies**

(A-F only; Prereq: Grad student, dept consent)  
29794 001 IND, Independent/Directed Study; 1-4 cr.

**Asian American Studies (AAS)****3211W Race & Racism in the U.S.**

(A-F or Audit; DSJ,WI)  
20226 001 LEC, 17:30-20:00 Th, Blegen Hall 120, In Person Term Based; Meets With: 001 SOC 3211W; Monica Jarvi ; 3 cr.

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

(A-F or Audit; DSJ,WI,SOC)  
19873 001 LEC, 14:30-15:45 MW, Blegen Hall 235, In Person Term Based; Meets With: 001 SOC 3251W; Ethan Johnson ; 3 cr.

**3303W Writing Differences: Literature by U.S. Women of Color**

(Student Option; DSJ,WI,LITR)  
33674 001 DIS, 09:45-11:00 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 GWSS 3303W001 ENGL 3303W; Jigna Desai ; 3 cr.

**3351 Asian Americans and Popular Culture**

(Student Option; AH,DSJ)  
33817 001 DIS, 17:30-20:00 W, Blegen Hall 110, In Person Term Based; Meets With: 001 COMM 3351; John Matsunaga ; 3 cr.

**3483 Hmong History Across the Globe**

(Student Option; )  
33660 001 LEC, 09:45-11:00 MW, Blegen Hall 110, In Person Term Based; Meets With: 001 HIST 3483; Mai Na Lee ; 3 cr.

**3862 American Immigration History**

(A-F or Audit; DSJ,HIS)  
33673 001 LEC, 08:15-09:30 TTh, Blegen Hall 240, In Person Term Based; Meets With: 001 HIST 3862; James Mcelroy ; 3 cr.

**3993 Directed Studies in Asian American Studies**

(Student Option; Prereq: instr consent)  
18992 001 IND, In Person Term Based; 1-9 cr.

**5993 Directed Readings**

(Student Option; )  
18949 001 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.

**Asian Languages and Literature (ALL)****1911W Mind and Muscle: Philosophy and the Martial Arts**

(A-F only; WI)  
33272 001 DIS, 09:45-11:00 MW, Nicholson Hall 355, In Person Term Based; Maki Isaka ; 3 cr.

**3001 Reading Asian Cultures**

(A-F or Audit; )  
20120 001 LEC, 11:15-12:30 MW, Nicholson Hall 35, In Person Term Based; Alexander Jabbari ; 3 cr.

**3336 Revolution and Modernity in Chinese Literature and Culture**

(A-F only; GP,LITR)  
20121 001 LEC, 14:30-15:45 TTh, Mechanical Engineering 18, In Person Term Based; Jason McGrath ; 3 cr.

**3351 Martial Arts in Chinese Literature and Film**

(A-F only; )  
31832 001 LEC, 09:45-11:00 TTh, Nicholson Hall 110, In Person Term Based; Ning Ma ; 3 cr.

**3372 History of Women and Family in China, 1600-2000**

(Student Option; )  
33589 001 LEC, 09:45-11:00 MW, Blegen Hall 435, In Person Term Based; Meets With: 001 HIST 3469; Ann Waltner ; 3 cr.

**3441W Japanese Theater**

(A-F or Audit; AH,WI)  
21166 001 LEC, 14:30-15:45 MW, Nicholson Hall 120, In Person Term Based; Maki Isaka ; 3 cr.

**3467 Science Fiction, Empire, Japan**

(A-F only; )  
20879 001 LEC, 13:00-14:15 TTh, Nicholson Hall 315, In Person Term Based; Baryon Tensor Posadas ; 3 cr.

**3471 Introduction to Japanese Religions**

(Student Option; )  
33042 001 LEC, 11:15-12:30 TTh, Nicholson Hall 125, In Person Term Based; Meets With: 001 RELS 3374; Paul Rouzer ; 3 cr.

**3478 Modern Japan, Meiji to the Present (1868-2000)**

(Student Option; HIS)  
20243 001 LEC, 13:00-14:15 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 HIST 3471001 EAS 3471; Hiromi Mizuno ; 3 cr.

**3520 Topics in Korean Culture**

(A-F only; )  
32819 001 LEC, 09:45-11:00 MW, Peik Hall 315, In Person Term Based; Hangtae Cho ; 1-3 cr.

**3576 Language & Society of the Two Koreas**

(A-F only; )  
20246 001 LEC, 14:00-15:15 MW, Blegen Hall 250, In Person Term Based; Hangtae Cho ; 3 cr.

**3637W Modern Indian Literature**

(A-F or Audit; GP,WI,LITR)  
35273 001 LEC, 16:00-17:15 MW, Bruininks Hall 144, In Person Term Based; Nida Sajid ; 3 cr.

**3638 Islam and Modernity in South Asia**

(A-F only; )  
33269 001 LEC, 13:00-14:15 MW, Kolthoff Hall 139, In Person Term Based; Nida Sajid ; 3 cr.

**3820 Topics in Arab Culture**

(A-F only; )  
34502 001 LEC, 14:30-15:45 MW, Folwell Hall 116, In Person Term Based; Shir Alon ; 3 cr.  
34826 002 LEC, 16:00-17:15 MW, Lind Hall 217, In Person Term Based; Alexander Jabbari ; 3 cr.

**3990 Directed Study**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
20787 001 IND, In Person Term Based; Paul Rouzer ; 1-4 cr.

**4901W Capstone Project in Asian Languages & Literatures**

(A-F or Audit; Prereq: ALL major, srWI)  
34505 001 LEC, 08:15-09:30 TTh, Peik Hall 335, In Person Term Based; Joseph Farag ; 3 cr.

**5351 Chinese New Media**

(A-F only; )  
32856 001 LEC, 09:45-11:00 TTh, Amundson Hall 104, In Person Term Based; Jason McGrath ; 3 cr.

**5820 Topics in Arab Culture**

(A-F only; )  
34503 001 LEC, 09:45-11:00 MW, Folwell Hall 107, In Person Term Based; Shir Alon ; 3 cr.

**5990 Directed Study**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
20311 001 IND, In Person Term Based; Christine Marran ; 1-4 cr.  
20413 002 IND, In Person Term Based; Nida Sajid ; 1-4 cr.

**Astronomy (AST)****1001 Exploring the Universe**

(Student Option; ENV,PHYS)  
24022 001 LEC, 09:45-11:00 MW, Tate Hall B20, In Person Term Based; Patrick Wilcox ; 4 cr.  
24023 002 LEC, 09:45-11:00 TTh, Tate Hall B20, In Person Term Based; Claudia Scarlata ; 4 cr.  
24024 101 LAB, 09:05-11:00 M, Tate Hall B27, In Person Term Based; 4 cr.  
24025 103 LAB, 11:15-13:10 M, Tate Hall B27, In Person Term Based; 4 cr.  
24026 104 LAB, 12:20-14:15 M, Tate Hall B29, In Person Term Based; 4 cr.  
24027 105 LAB, 13:25-15:20 M, Tate Hall B27, In Person Term Based; 4 cr.  
24028 106 LAB, 14:30-16:25 M, Tate Hall B29, In Person Term Based; 4 cr.  
24029 107 LAB, 15:35-17:30 M, Tate Hall B27, In Person Term Based; 4 cr.  
24030 108 LAB, 09:05-11:00 T, Tate Hall B27, In Person Term Based; 4 cr.  
24031 109 LAB, 10:10-12:05 T, Tate Hall B29, In Person Term Based; 4 cr.  
24032 110 LAB, 11:15-13:10 T, Tate Hall B27, In Person Term Based; 4 cr.  
24033 111 LAB, 12:20-14:15 T, Tate Hall B29, In Person Term Based; 4 cr.  
24034 113 LAB, 14:30-16:25 T, Tate Hall B29, In Person Term Based; 4 cr.  
24037 116 LAB, 10:10-12:05 W, Tate Hall B29, In Person Term Based; 4 cr.  
24038 118 LAB, 12:20-14:15 W, Tate Hall B29, In Person Term Based; 4 cr.  
24642 112 LAB, 13:25-15:20 T, Tate Hall B27, In Person Term Based; 4 cr.  
24796 102 LAB, 10:10-12:05 M, Tate Hall B29, In Person Term Based; 4 cr.  
24797 117 LAB, 11:15-13:10 W, Tate Hall B27, In Person Term Based; 4 cr.  
26121 003 LEC, 13:00-14:15 TTh, Tate Hall B50, In Person Term Based; Claudia Scarlata ; 4 cr.  
26410 004 LEC, 18:30-19:45 MW, Tate Hall B20, In Person Term Based; Matthew Gomer ; 4 cr.  
26805 119 LAB, 13:25-15:20 W, Tate Hall B27, In Person Term Based; 4 cr.  
26806 120 LAB, 14:30-16:25 W, Tate Hall B29, In Person Term Based; 4 cr.  
26807 121 LAB, 15:35-17:30 W, Tate Hall B27, In Person Term Based; 4 cr.  
26808 122 LAB, 09:05-11:00 Th, Tate Hall B27, In Person Term Based; 4 cr.  
26809 123 LAB, 10:10-12:05 Th, Tate Hall B29, In Person Term Based; 4 cr.  
26812 126 LAB, 09:05-11:00 F, Tate Hall B27, In Person Term Based; 4 cr.  
26813 127 LAB, 10:10-12:05 F, Tate Hall B29, In Person Term Based; 4 cr.  
26814 128 LAB, 11:15-13:10 F, Tate Hall B27, In Person Term Based; 4 cr.

**2001 Introduction to Astrophysics**

(Student Option; Prereq: [One yr calculus, PHYS 1302] or instr consent)  
24859 001 LEC, 14:30-16:25 TTh, Tate Hall 105, In Person Term Based; Robert Gehrz ; 4 cr.

**2990 Directed Studies**

(Student Option; Prereq: 1 yr calculus, Phys 1302, instr consent)  
24041 001 IND, 00:00-00:00 , In Person Term Based; 1-5 cr.

**4001 Astrophysics I**

(A-F or Audit; Prereq: 2001, Phys 2601)  
24933 001 LEC, 11:15-12:05 MTWTh, Amundson Hall 124, In Person Term Based; Paul Woodward ; 4 cr.

**4041 Computational Methods in the Physical Sciences**

(Student Option; Prereq: Upper div or grad student or instr consent)

27007 001 LAB, 08:00-08:50 MTWTh, Tate Hall B85, In Person Term Based; Meets With: 001 PHYS 4041; Thomas Jones ; 4 cr.

**4299H Senior Honors Astrophysics****Research Seminar**

(Student Option; Prereq: upper div honors student in IT or CLA, instr consent)

24044 001 LEC, 14:30-15:20 F, Tate Hall 110, In Person Term Based; Meets With: 001 AST 8200; Thomas Jones ; 1 cr.

**4990 Directed Studies**

(Student Option; Prereq: 2001, instr consent)

24042 010 IND, 00:00-00:00 , In Person Term Based; Liliya Williams ; 1-5 cr.  
25432 015 IND, 00:00-00:00 , In Person Term Based; John Wygant ; 1-5 cr.  
25433 003 IND, 00:00-00:00 , In Person Term Based; Roberta Humphreys ; 1-5 cr.  
25434 004 IND, 00:00-00:00 , In Person Term Based; Terry Jones ; 1-5 cr.  
25435 005 IND, 00:00-00:00 , In Person Term Based; Thomas Jones ; 1-5 cr.  
25436 006 IND, 00:00-00:00 , In Person Term Based; Patrick Kelly ; 1-5 cr.  
25437 007 IND, 00:00-00:00 , In Person Term Based; Lawrence Rudnick ; 1-5 cr.  
25438 008 IND, 00:00-00:00 , In Person Term Based; Claudia Scarlata ; 1-5 cr.  
25439 009 IND, 00:00-00:00 , In Person Term Based; Evan Skillman ; 1-5 cr.  
25482 011 IND, 00:00-00:00 , In Person Term Based; Chick Woodward ; 1-5 cr.  
25485 014 IND, 00:00-00:00 , In Person Term Based; Lindsay Glesener ; 1-5 cr.  
26101 012 IND, 00:00-00:00 , In Person Term Based; Paul Woodward ; 1-5 cr.  
26442 013 IND, 00:00-00:00 , In Person Term Based; Lucy Fortson ; 1-5 cr.  
27163 016 IND, In Person Term Based; Vuk Mandic ; 1-5 cr.

**4994W Directed Research**

(A-F only; WI)

24043 024 IND, 00:00-00:00 , In Person Term Based; John Wygant ; 2-5 cr.  
25440 002 IND, 00:00-00:00 , In Person Term Based; Robert Gehrz ; 2-5 cr.  
25441 003 IND, 00:00-00:00 , In Person Term Based; Roberta Humphreys ; 2-5 cr.  
25442 004 IND, 00:00-00:00 , In Person Term Based; Terry Jones ; 2-5 cr.  
25443 005 IND, 00:00-00:00 , In Person Term Based; Thomas Jones ; 2-5 cr.  
25444 006 IND, 00:00-00:00 , In Person Term Based; Patrick Kelly ; 2-5 cr.  
25445 007 IND, 00:00-00:00 , In Person Term Based; Lawrence Rudnick ; 2-5 cr.  
25446 008 IND, 00:00-00:00 , In Person Term Based; Claudia Scarlata ; 2-5 cr.  
25447 009 IND, 00:00-00:00 , In Person Term Based; Evan Skillman ; 2-5 cr.  
25483 010 IND, 00:00-00:00 , In Person Term Based; Liliya Williams ; 2-5 cr.  
25484 011 IND, 00:00-00:00 , In Person Term Based; Chick Woodward ; 2-5 cr.  
26102 012 IND, 00:00-00:00 , In Person Term Based; Paul Woodward ; 2-5 cr.  
26209 013 IND, 00:00-00:00 , In Person Term Based; Cynthia Cattell ; 2-5 cr.  
26210 014 IND, 00:00-00:00 , In Person Term Based; Priscilla Cushman ; 2-5 cr.  
26211 015 IND, 00:00-00:00 , In Person Term Based; Lucy Fortson ; 2-5 cr.  
26212 016 IND, 00:00-00:00 , In Person Term Based; Lindsay Glesener ; 2-5 cr.  
26213 017 IND, 00:00-00:00 , In Person Term Based; Shaul Hanany ; 2-5 cr.  
26214 018 IND, 00:00-00:00 , In Person Term Based; Robert Lysak ; 2-5 cr.  
26215 019 IND, 00:00-00:00 , In Person Term Based; Vuk Mandic ; 2-5 cr.  
26216 020 IND, 00:00-00:00 , In Person Term Based; Keith Olive ; 2-5 cr.  
26217 021 IND, 00:00-00:00 , In Person Term Based; Marco Peloso ; 2-5 cr.  
26218 022 IND, 00:00-00:00 , In Person Term Based; Clement Pryke ; 2-5 cr.  
26219 023 IND, 00:00-00:00 , In Person Term Based; Yongzhong Qian ; 2-5 cr.

**5022 Relativity, Cosmology, and the Universe**

(Student Option; Prereq: [2001, Phys 2601] or instr consent)  
34940 001 LEC, 14:30-16:25 MW, Tate Hall B85, In Person Term Based; Meets With: 001 PHYS 5022; Liliya Williams ; 4 cr.

## Biochemistry (BIOC)

### 2011 Biochemistry for the Agricultural and Health Sciences

(Student Option; Prereq: Chem 1015, Bio 1009)  
14799 001 LEC, 13:00-13:50 MWF, Mayo Bldg & Additions C231, In Person Term Based; Sharon Murphy, James Ervasti ; 3 cr.

### 3021 Biochemistry

(Student Option; Prerequisites: Introductory Biology (BIOL 1009 or BIOL 2003 or equivalent) and Organic Chemistry (CHEM 2301 or CHEM 2081/2085 or equivalent) enforced prerequisite: not a CBS student)  
14917 090 LEC, 00:00-00:00 , ONLINE, Completely Online; Robert Roon ; 3 cr.  
14918 001 LEC, 09:05-09:55 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Meets With: 001 BIOC 6021; Kenneth Adolph ; 3 cr.  
15086 002 LEC, 08:00-09:15 TTh, Bruininks Hall 432, In Person Term Based; Robert Roon ; 3 cr.

### 3022 Biochemistry for Life Scientists

(Student Option; )  
15089 001 LEC, 11:15-12:30 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Paul Siliciano ; 3 cr.  
15208 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 or 4331 or equivWI)  
14701 001 LEC, 16:40-17:30 M, Molecular Cellular Biol 3-120, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
14702 002 LAB, 08:15-11:55 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
14703 003 LAB, 13:15-16:55 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
14704 005 LAB, 13:15-16:55 Th, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
14705 006 LAB, 17:20-21:00 T, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 cr.  
14835 007 LAB, 17:20-21:00 Th, Molecular Cellular Biol 2-128, In Person Term Based; Beverly Smith-Keiling ; 2 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))  
14700 001 LEC, 10:10-11:00 MTWTh, Rapson Hall 56, In Person Term Based; Timothy Griffin, Yue Chen ; 4 cr.

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

(Student Option; Prereq: 4331 or instr consent)  
14854 001 LEC, 10:10-12:05 TTh, Nils Hasselmo Hall 2-101, In Person Term Based; Michael Smanski, Juan Carlos Rivera Mulia, Laurie Parker ; 4 cr.

### 4351 Protein Engineering

(A-F only; Prereq: 4331 or instr consent)  
14992 001 LEC, 11:15-12:30 MW, Molecular Cellular Biol 2-122, In Person Term Based; Meets With: 001 BIOC 5351; Romas Kazlauskas, Mikael Elias ; 3 cr.

### 4521 Introduction to Physical Biochemistry

(Student Option; Prereq: 4331 recommended, (Chem 1062/1066 or CHEM 1082/1086) AND (Physics 1202 or 1302))  
14780 001 LEC, 09:05-09:55 MWF, Molecular Cellular Biol 2-122, In Person Term Based; Wendy Gordon ; 3 cr.

### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consentWI)  
14813 001 IND, 00:00-00:00 , In Person Term Based; Paul Siliciano ; 1-7 cr.

### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consentWI)  
14814 001 IND, 00:00-00:00 , In Person Term Based; 1-6 cr.

### 4993 Directed Studies

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

14706 001 IND, 00:00-00:00 , In Person Term Based; Paul Siliciano ; 1-7 cr.

### 4994 Directed Research

(S-N or Audit; Prereq: instr consent, dept consent)  
14786 001 IND, 00:00-00:00 , In Person Term Based; 1-6 cr.

### 5351 Protein Engineering

(A-F only; )  
14991 001 LEC, 11:15-12:30 MW, Molecular Cellular Biol 2-122, In Person Term Based; Meets With: 001 BIOC 4351; Romas Kazlauskas, Mikael Elias ; 3 cr.

### 5361 Microbial Genomics and Bioinformatics

(Student Option; Prereq: College-level courses in [organic chemistry, biochemistry, microbiology])  
14834 001 LEC, 10:15-11:30 TTh, Magrath Library 8, 10:15-11:30 TTh, Gortner Laboratory 239, In Person Term Based; Lawrence Wackett ; 3 cr.

### 5535 Introduction to Modern Structural Biology -- Diffraction

(A-F or Audit; Prereq: (Introductory biochemistry, introductory physics, college calculus) or physical chemistry or instr consent)  
15145 001 DIS, 12:20-14:15 MW, No Room Required, In Person Term Based; Douglas Ohlendorf ; 2 cr.

## Bioethics, Center for (BTHX)

### 5110 Ethical Issues in Pediatrics

(Student Option; )  
33049 001 DIS, 15:00-16:40 W, Boynton Health Services N539, In Person Term Based; Donald Brunnquell ; 2 cr.

### 5120 Dying in Contemporary Medical Culture

(Student Option; )  
33047 001 DIS, 15:30-17:10 Th, Boynton Health Services N539, In Person Term Based; Joan Liaschenko ; 2 cr.

### 5210 Ethics of Human Subjects Research

(Student Option; Prereq: Grad student or instr consent)  
13988 001 LEC, 15:00-17:30 M, Boynton Health Services N539, In Person Term Based; Leigh Turner ; 3 cr.

### 5325 Biomedical Ethics

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
14082 001 LEC, 12:30-15:00 Th, Weaver-Densford Hall W2120, In Person Term Based; Debra DeBruin ; 3 cr.

### 5900 Independent Study in Bioethics

(Student Option; Prereq: instr consent)  
13909 001 IND, Independent/Directed Study; Joan Liaschenko ; 1-4 cr.  
13916 006 IND, 00:00-00:00 , Independent/Directed Study; Leigh Turner ; 1-4 cr.  
13936 003 IND, 00:00-00:00 , Independent/Directed Study; Debra DeBruin ; 1-4 cr.

## Biology (BIOL)

### 1001 Introductory Biology: Evolutionary and Ecological Perspectives

(Student Option; Prerequisites for allied health grad programs.BIOL)  
14734 001 LEC, 14:30-15:45 TTh, Willey Hall 175, In Person Term Based; Craig Packer, Charles Willis ; 4 cr.  
14735 002 LAB, 10:10-12:05 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14736 003 LAB, 12:20-14:15 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14737 004 LAB, 14:30-16:25 M, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14739 006 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14740 007 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14741 008 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14742 009 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14828 010 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14829 011 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.

14830 012 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
14831 013 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
15085 090 LEC, Completely Online; Charles Willis ; 4 cr.  
15088 015 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.  
15153 016 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-140, In Person Term Based; 4 cr.

### 1001H Introductory Biology I: Evolutionary and Ecological Perspectives

(A-F only; Prerequisites for allied health grad programs.BIOL)  
14931 001 LEC, 09:45-11:00 TTh, Room TBA, In Person Term Based; Craig Packer ; 4 cr.

### 1003 Evolution and Biology of Sex

(Student Option; Prerequisites for allied health grad programs.BIOL)  
14867 001 LEC, 09:45-11:00 MW, Bruininks Hall 330, In Person Term Based; Sehoya Cotner ; 4 cr.  
14868 002 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14869 003 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14870 004 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14871 005 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14872 006 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14905 020 LEC, 11:15-12:30 MW, Bruininks Hall 330, In Person Term Based; Sehoya Cotner ; 4 cr.  
14906 021 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14907 022 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14908 023 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14909 024 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14910 025 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14942 030 LEC, 13:00-14:15 MW, Molecular Cellular Biol 3-120, In Person Term Based; Mark Decker ; 4 cr.  
14943 031 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14944 032 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14945 033 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14946 034 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14947 035 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.  
14948 036 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14949 037 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
14950 038 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-138, In Person Term Based; 4 cr.  
15157 039 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-136, In Person Term Based; 4 cr.

### 1009 General Biology

(Student Option; Prerequisite and requirement in many majors. BIOL)  
14709 001 LEC, 08:15-09:30 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Cheryl Scott ; 4 cr.  
14710 002 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14711 003 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14712 004 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
14713 005 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14714 006 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14715 007 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14716 008 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14717 009 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14718 010 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14719 050 LEC, 13:00-14:15 TTh, Smith Hall 100, In Person Term Based; Antony Dean ; 4 cr.  
14720 051 LAB, 08:00-09:55 T, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
14721 052 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
14722 053 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

14723 054 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14724 055 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14725 056 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14726 057 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14727 058 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14728 059 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14729 060 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14853 061 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14888 030 LEC, 09:45-11:00 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Cheryl Scott ; 4 cr.  
 14889 031 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.  
 14890 032 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14891 033 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14892 034 LAB, 08:00-09:55 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14893 035 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14894 036 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 14895 037 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 14903 038 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 14904 039 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 14978 062 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-137, In Person Term Based; 4 cr.  
 14979 063 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 15104 090 LEC, Completely Online; Charles Willis ; 4 cr.  
 15158 064 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.  
 15164 065 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-139, In Person Term Based; 4 cr.

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

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

14881 001 LEC, 13:25-14:15 MWF, Bruininks Hall 412, In Person Term Based; Kristina Prescott, Sarah Malmquist ; 4 cr.  
 14882 002 LAB, 10:10-12:05 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14883 003 LAB, 14:30-16:25 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14884 004 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14885 005 LAB, 14:30-16:25 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14886 006 LAB, 10:10-12:05 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14911 020 LEC, 14:30-15:20 MWF, Bruininks Hall 412, In Person Term Based; Sarah Malmquist, Kristina Prescott ; 4 cr.  
 14912 021 LAB, 12:20-14:15 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14913 022 LAB, 16:40-18:35 T, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14914 023 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14915 024 LAB, 16:40-18:35 W, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14916 025 LAB, 08:00-09:55 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14934 007 LAB, 14:30-16:25 Th, Molecular Cellular Biol 2-142, In Person Term Based; 4 cr.  
 14935 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)**

15154 001 LEC, 11:15-12:30 TTh, Bruininks Hall 131B, In Person Term Based; Murray Jensen ; 4 cr.  
 15155 002 LAB, 13:25-15:20 T, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 15156 003 LAB, 10:10-12:05 W, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.  
 15163 004 LAB, 12:20-14:15 W, Molecular Cellular Biol 2-126, In Person Term Based; 4 cr.

### 1020 Biology Colloquium

**(S-N or Audit; )**

14698 001 LEC, 14:30-16:25 M, Molecular Cellular Biol 2-122, In Person Term Based; Valery Forbes ; 1 cr.  
 14699 002 LEC, 15:35-17:30 T, Molecular Cellular Biol 2-120, In Person Term Based; Valery Forbes ; 1 cr.

### 1052 Environmental Biology: Science and Solutions

**(Student Option; ENV)**

14879 001 LEC, 14:30-15:45 TTh, Bruininks Hall 114, 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)**

14940 001 LEC, 14:30-15:45 TTh, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 1052; Deena Wassenberg ; 4 cr.

14941 002 LAB, 12:20-14:15 Th, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

14951 003 LAB, 16:40-18:35 Th, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

14952 004 LAB, 10:10-12:05 F, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

15028 005 LAB, 12:20-14:15 F, Molecular Cellular Biol 2-141, In Person Term Based; 4 cr.

### 1093 Biology Colloquium: Directed Study

**(S-N or Audit; Prereq: 1020 and concurrent registration is required (or allowed) in 1020)**

14747 001 IND, 00:00-00:00 , , In Person Term Based; Valery Forbes ; 1 cr.

### 1805 Nature of Life: Introducing New Students to the Biological Sciences

**(S-N or Audit; Prereq: Fr in College of Biological Sciences)**

14838 001 LEC, 12:20-13:10 F, Willey Hall 175, 12:20-13:10 F, Bruininks Hall 432, 12:20-13:10 F, Rapson Hall 56, 12:20-13:10 F, Bruininks Hall 114, 12:20-13:10 F, Nicholson Hall 35, 12:20-13:10 F, Keller Hall 3-230, 12:20-13:10 F, Molecular Cellular Biol 3-120, In Person Term Based; Frances Wood ; 0.5 cr.

### 1911 Curing Cancer

**(A-F only; )**

15205 001 LEC, 13:25-14:15 T, Civil Engineering Bldg 213, In Person Term Based; Colin Campbell ; 1 cr.

### 1912 Photographing the University Community

**(A-F only; )**

15166 001 LEC, 14:30-16:25 W, Molecular Cellular Biol 2-122, In Person Term Based; Robert Roon, Alex Lange ; 2 cr.

### 1915 Genomics in Your Current and Future Life

**(A-F only; )**

15173 001 LEC, 14:30-15:45 T, Nils Hasselmo Hall 4-101, In Person Term Based; Perry Hackett ; 1 cr.

### 1917 Experimental Evolution

**(A-F only; )**

15175 001 LEC, 13:25-14:15 F, Bruininks Hall 119, In Person Term Based; Michael Travisano ; 1 cr.

### 1921 The Nexus Between Art and Biology

**(A-F only; )**

15174 001 LEC, 09:45-11:30 W, Kolthoff Hall 132, In Person Term Based; Robert Roon ; 2 cr.

### 1942 Science and Politics of Genetics and Reproduction

**(A-F only; TS)**

33314 001 LEC, 13:00-14:15 TTh, Lind Hall 217, In Person Term Based; Murray Jensen ; 3 cr.

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

**(A-F only; Prereq: [[CHEM 1021 or 1061 or 1081 or equiv], CBS major] or dept consent; calculus I or equiv recommendedBIOL)**

15105 001 LEC, 08:00-09:55 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 1951H; Peter Tiffin, David Matthes ; 4 cr.

15106 002 LEC, 10:10-12:05 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 1951H; Anita Schuchardt, Anna Mosser ; 4 cr.

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

**(A-F only; Prereq: [[CHEM 1021 or 1061 or 1081 or equiv], CBS major] or dept consent; calculus I or**

**equiv recommended Credit will not be granted if credit has been received for: BIOL 1951, BIOL 2002, BIOL 2002HBIOL)**

15143 001 LEC, 08:00-09:55 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 001 BIOL 1951; Peter Tiffin, David Matthes ; 4 cr.

15144 002 LEC, 10:10-12:05 MWF, Bruininks Hall 114, In Person Term Based; Meets With: 002 BIOL 1951; Anita Schuchardt, Anna Mosser ; 4 cr.

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

**(A-F only; Prereq: [[CHEM 1021 or 1061 or 1081 or equiv], CBS major] or dept consent; prereq or coreq [Biol 1951 or 1951H]; calculus I or equiv recommended BIOL)**

15107 001 LAB, 13:00-16:00 MW, Biological Sciences Ctr 198, In Person Term Based; Meets With: 001 BIOL 1961H; 2 cr.

15108 002 LAB, 13:00-16:00 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 002 BIOL 1961H; 2 cr.

15109 003 LAB, 13:00-16:00 MW, Biological Science Ctr 286, In Person Term Based; Meets With: 003 BIOL 1961H; 2 cr.

15110 004 LAB, 13:00-16:00 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 004 BIOL 1961H; 2 cr.

15111 005 LAB, 17:10-20:10 MW, Biological Sciences Ctr 198, In Person Term Based; Meets With: 005 BIOL 1961H; 2 cr.

15112 006 LAB, 17:10-20:10 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 006 BIOL 1961H; 2 cr.

15113 007 LAB, 17:10-20:10 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 007 BIOL 1961H; 2 cr.

15114 008 LAB, 08:30-11:30 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 008 BIOL 1961H; 2 cr.

15115 009 LAB, 08:30-11:30 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 009 BIOL 1961H; 2 cr.

15116 010 LAB, 08:30-11:30 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 010 BIOL 1961H; 2 cr.

15117 011 LAB, 08:30-11:30 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 011 BIOL 1961H; 2 cr.

15118 012 LAB, 13:00-16:00 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 012 BIOL 1961H; 2 cr.

15119 013 LAB, 13:00-16:00 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 013 BIOL 1961H; 2 cr.

15120 014 LAB, 13:00-16:00 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 014 BIOL 1961H; 2 cr.

15121 015 LAB, 13:00-16:00 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 015 BIOL 1961H; 2 cr.

15122 016 LAB, 17:10-20:10 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 016 BIOL 1961H; 2 cr.

15123 017 LAB, 17:10-20:10 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 017 BIOL 1961H; 2 cr.

15124 018 LAB, 17:10-20:10 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 018 BIOL 1961H; 2 cr.

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

**(A-F only; Prereq: [[CHEM 1021 or 1061 or 1081 or equiv], CBS major] or dept consent; prereq or coreq [Biol 1951 or Biol 1951H]; calculus I or equiv recommendedBIOL)**

15125 001 LAB, 13:00-16:00 MW, Biological Sciences Ctr 198, In Person Term Based; Meets With: 001 BIOL 1961; 2 cr.

15126 002 LAB, 13:00-16:00 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 002 BIOL 1961; 2 cr.

15127 003 LAB, 13:00-16:00 MW, Biological Science Ctr 286, In Person Term Based; Meets With: 003 BIOL 1961; 2 cr.

15128 004 LAB, 13:00-16:00 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 004 BIOL 1961; 2 cr.

15129 005 LAB, 17:10-20:10 MW, Biological Sciences Ctr 198, In Person Term Based; Meets With: 005 BIOL 1961; 2 cr.

15130 006 LAB, 17:10-20:10 MW, Biological Sciences Ctr 259, In Person Term Based; Meets With: 006 BIOL 1961; 2 cr.



15131 007 LAB, 17:10-20:10 MW, Biological Science Ctr 282, In Person Term Based; Meets With: 007 BIOL 1961; 2 cr.

15132 008 LAB, 08:30-11:30 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 008 BIOL 1961; 2 cr.

15133 009 LAB, 08:30-11:30 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 009 BIOL 1961; 2 cr.

15134 010 LAB, 08:30-11:30 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 010 BIOL 1961; 2 cr.

15135 011 LAB, 08:30-11:30 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 011 BIOL 1961; 2 cr.

15136 012 LAB, 13:00-16:00 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 012 BIOL 1961; 2 cr.

15137 013 LAB, 13:00-16:00 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 013 BIOL 1961; 2 cr.

15138 014 LAB, 13:00-16:00 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 014 BIOL 1961; 2 cr.

15139 015 LAB, 13:00-16:00 TTh, Biological Science Ctr 286, In Person Term Based; Meets With: 015 BIOL 1961; 2 cr.

15140 016 LAB, 17:10-20:10 TTh, Biological Sciences Ctr 198, In Person Term Based; Meets With: 016 BIOL 1961; 2 cr.

15141 017 LAB, 17:10-20:10 TTh, Biological Sciences Ctr 259, In Person Term Based; Meets With: 017 BIOL 1961; 2 cr.

15142 018 LAB, 17:10-20:10 TTh, Biological Science Ctr 282, In Person Term Based; Meets With: 018 BIOL 1961; 2 cr.

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

(A-F only;)  
14857 001 LEC, 08:00-09:55 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 001 BIOL 2003H; Abdi Warfa, Mark Decker; 3 cr.

14859 002 LEC, 10:10-12:05 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 002 BIOL 2003H; Michael Travisano, Brian Gibbens; 3 cr.

14953 003 LEC, 09:05-11:00 MW, Bruininks Hall 312, In Person Term Based; Meets With: 003 BIOL 2003H; Brian Gibbens, Deena Wassenberg; 3 cr.

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

(A-F only;)  
14858 001 LEC, 08:00-09:55 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 001 BIOL 2003; Abdi Warfa, Mark Decker; 3 cr.

14860 002 LEC, 10:10-12:05 TTh, Bruininks Hall 312, In Person Term Based; Meets With: 002 BIOL 2003; Michael Travisano, Brian Gibbens; 3 cr.

14954 003 LEC, 09:05-11:00 MW, Bruininks Hall 312, In Person Term Based; Meets With: 003 BIOL 2003; Brian Gibbens, Deena Wassenberg; 3 cr.

### 2005 Animal Diversity Laboratory

(Student Option;)  
14768 001 LAB, 09:35-12:35 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14769 002 LAB, 13:55-16:55 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14770 003 LAB, 18:50-21:50 T, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14771 004 LAB, 10:40-13:40 W, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14772 005 LAB, 13:55-16:55 W, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14773 006 LAB, 17:10-20:10 W, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14774 007 LAB, 09:35-12:35 Th, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14775 008 LAB, 13:55-16:55 Th, Biological Sciences Ctr 107, In Person Term Based; 2 cr.

14776 009 LAB, 18:50-21:50 Th, Biological Sciences Ctr 107, In Person Term Based; Matthew Maxam; 2 cr.

14777 010 LAB, 10:40-13:40 F, Biological Sciences Ctr 182, In Person Term Based; 2 cr.

### 2012 General Zoology

(Student Option; Prereq: One semester of college biology)  
14756 001 LEC, 09:35-10:25 MWF, Biological Sciences Ctr 64, In Person Term Based; Suzanne McLaugh; 4 cr.

14757 002 LAB, 08:30-11:30 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

14758 003 LAB, 12:50-15:50 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

14759 004 LAB, 17:10-20:10 T, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

14760 005 LAB, 12:50-15:50 W, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

14761 006 LAB, 08:30-11:30 Th, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

14762 007 LAB, 17:10-20:10 Th, Biological Sciences Ctr 182, In Person Term Based; 4 cr.

### 2301 Dean's Scholar: Critical Service

**Learning**  
(S-N only; Prereq: 1301, CBS Dean's Scholar)  
14923 001 DIS, 13:25-15:20 T, Bruininks Hall 117, In Person Term Based; Aryn Lipnicki; 2 cr.

33898 002 DIS, 10:10-12:05 F, Akerman Hall 215, In Person Term Based; Amy Barton; 2 cr.

### 2905 Nature of Life, Part III

(S-N only; Prereq: 1805, 1806)  
14987 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)  
14832 001 LEC, 14:30-15:45 Th, Bruininks Hall 432, In Person Term Based; Dana Davis; 1 cr.

### 3001 Nature of Science and Research

(S-N only; Prereq: College-level biology)  
14939 001 DIS, 12:20-13:10 Th, Bruininks Hall 432, In Person Term Based; Anna Mosser; 1 cr.

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

(A-F only;)  
14861 001 LEC, 17:10-19:05 T, Ecology Building 170, In Person Term Based; Meets With: 001 BIOL 3004H; 3 cr.

14862 009 LEC, 11:45-13:40 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 009 BIOL 3004H; 3 cr.

14955 002 LEC, 12:50-14:45 W, Ecology Building 170, In Person Term Based; Meets With: 002 BIOL 3004H; 3 cr.

14956 003 LEC, 12:50-14:45 Th, Ecology Building 170, In Person Term Based; Meets With: 003 BIOL 3004H; 3 cr.

14957 004 LEC, 15:00-16:55 Th, Ecology Building 170, In Person Term Based; Meets With: 004 BIOL 3004H; 3 cr.

14958 006 LEC, 13:55-15:50 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 006 BIOL 3004H; 3 cr.

14959 007 LEC, 16:05-18:00 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 007 BIOL 3004H; 3 cr.

14960 008 LEC, 16:05-18:00 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 008 BIOL 3004H; 3 cr.

14961 010 LEC, 13:55-15:50 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 010 BIOL 3004H; 3 cr.

14962 011 LEC, In Person Term Based; Meets With: 011 BIOL 3004H; 3 cr.

14963 012 LEC, 15:00-16:55 T, Ecology Building 170, In Person Term Based; Meets With: 012 BIOL 3004H; 3 cr.

14964 013 LEC, 15:00-16:55 W, Ecology Building 170, In Person Term Based; Meets With: 013 BIOL 3004H; Marc Tye; 3 cr.

14965 014 LEC, 17:10-19:05 W, Ecology Building 170, In Person Term Based; Meets With: 014 BIOL 3004H; 3 cr.

15023 016 LEC, 15:00-16:55 F, Ecology Building 170, In Person Term Based; Meets With: 016 BIOL 3004H; 3 cr.

15090 015 LEC, 17:10-19:05 Th, Ecology Building 170, In Person Term Based; Meets With: 015 BIOL 3004H; 3 cr.

15091 017 LEC, 18:15-20:10 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 017 BIOL 3004H; 3 cr.

15092 018 LEC, 13:55-15:50 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 018 BIOL 3004H; 3 cr.

15169 019 LEC, 13:55-15:50 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 019 BIOL 3004H; 3 cr.

15170 020 LEC, 16:05-18:00 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 020 BIOL 3004H; 3 cr.

33497 005 LEC, 12:50-14:45 F, Ecology Building 170, In Person Term Based; Meets With: 005 BIOL 3004H; 3 cr.

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

(A-F only;)  
14863 001 LEC, 17:10-19:05 T, Ecology Building 170, In Person Term Based; Meets With: 001 BIOL 3004; 3 cr.

14864 010 LEC, 13:55-15:50 F, Biological Sciences Ctr 12, In Person Term Based; Meets With: 010 BIOL 3004; 3 cr.

14966 002 LEC, 12:50-14:45 W, Ecology Building 170, In Person Term Based; Meets With: 002 BIOL 3004; 3 cr.

14967 003 LEC, 12:50-14:45 Th, Ecology Building 170, In Person Term Based; Meets With: 003 BIOL 3004; 3 cr.

14968 004 LEC, 15:00-16:55 Th, Ecology Building 170, In Person Term Based; Meets With: 004 BIOL 3004; 3 cr.

14969 005 LEC, 12:50-14:45 F, Ecology Building 170, In Person Term Based; Meets With: 005 BIOL 3004; 3 cr.

14970 006 LEC, 13:55-15:50 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 006 BIOL 3004; 3 cr.

14971 007 LEC, 16:05-18:00 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 007 BIOL 3004; 3 cr.

14972 008 LEC, 16:05-18:00 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 008 BIOL 3004; 3 cr.

14973 011 LEC, In Person Term Based; Meets With: 011 BIOL 3004; 3 cr.

14974 012 LEC, 15:00-16:55 T, Ecology Building 170, In Person Term Based; Meets With: 012 BIOL 3004; 3 cr.

14975 013 LEC, 15:00-16:55 W, Ecology Building 170, In Person Term Based; Meets With: 013 BIOL 3004; Marc Tye; 3 cr.

14976 014 LEC, 17:10-19:05 W, Ecology Building 170, In Person Term Based; Meets With: 014 BIOL 3004; 3 cr.

14977 016 LEC, 15:00-16:55 F, Ecology Building 170, In Person Term Based; Meets With: 016 BIOL 3004; 3 cr.

15024 018 LEC, 13:55-15:50 W, Biological Sciences Ctr 12, In Person Term Based; Meets With: 018 BIOL 3004; 3 cr.

15033 009 LEC, 11:45-13:40 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 009 BIOL 3004; 3 cr.

15093 015 LEC, 17:10-19:05 Th, Ecology Building 170, In Person Term Based; Meets With: 015 BIOL 3004; 3 cr.

15094 017 LEC, 18:15-20:10 T, Biological Sciences Ctr 12, In Person Term Based; Meets With: 017 BIOL 3004; 3 cr.

15171 019 LEC, 13:55-15:50 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 019 BIOL 3004; 3 cr.

15172 020 LEC, 16:05-18:00 Th, Biological Sciences Ctr 12, In Person Term Based; Meets With: 020 BIOL 3004; 3 cr.

### 3020 Molecular Biology and Society

(S-N only; Prerequisite for most upper-level CBS courses.TS)  
15026 001 LEC, 08:15-09:30 MW, Bruininks Hall 330, In Person Term Based; Brian Van Ness, Sean Conner; 3 cr.

15038 002 LEC, 13:00-14:15 MW, Bruininks Hall 330, In Person Term Based; Anath Das; 3 cr.

15168 003 LEC, 10:15-11:30 TTh, Biological Sciences Ctr 64, In Person Term Based; Daniel Voytas, Jane Glazebrook; 3 cr.

### 3272 Applied Biostatistics

(A-F only; Prereq: High school algebra; BIOL 2003 recommended)  
14901 001 LEC, 16:30-18:10 MW, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 5272; Fumiaki Katagiri; 4 cr.

### 3302 Dean's Scholar: Leadership Capstone Experience

(S-N only; Prereq: 1301, 2301, CBS dean's scholar)  
14876 001 DIS, 09:45-11:00 T, Nicholson Hall 125, In Person Term Based; Nikki Letawsky Shultz; 1 cr.

### 3303 Dean's Scholar: Peer Leadership Development

(S-N only;)  
14877 001 DIS, 10:10-11:00 F, Smith Hall 111, In Person Term Based; Aryn Lipnicki; 1 cr.

### 3503 Biology of Aging

(A-F only; Prereq: 1002 or 1009 or 2003 or equiv)  
14842 001 LEC, 15:00-16:55 M, Biological Sciences Ctr 12, 15:00-15:50 M, Biological Sciences Ctr 12, In Person Term Based; James Curtsinger; 2 cr.

### 3600 Directed Instruction

(S-N or Audit; Prereq: 1020, upper div, application, instr consent; up to 4 cr may apply to major)  
14749 001 IND, 00:00-00:00, In Person Term Based; Valery Forbes; 1-2 cr.

### 3610 Internship: Professional Experience in Biological Sciences

(S-N or Audit; Prereq: Acceptance into CBS Internship Program, internship workshop, college consent.)  
14827 001 FWK, In Person Term Based; Rebecca Luebbert; 1-6 cr.

### 3700 Undergraduate Seminar

(Student Option;)  
34022 001 LEC, 09:05-09:55 W, Bruininks Hall 420A, In Person Term Based; Kathleen LaBarbera; 1-3 cr.

### 3960H Communicating in the Biological Sciences

(A-F only;)  
14743 001 LEC, 13:25-14:15 M, Bruininks Hall 117, In Person Term Based; Daniel Bond; 1 cr.

14744 002 LEC, 14:30-15:20 M, Bruininks Hall 117, In Person Term Based; Daniel Bond; 1 cr.

**4003 Genetics**

(Student Option; Prereq: Biol 3020 or BioC 3021 or BioC 4331 or grad MSB)  
14748 001 LEC, 13:00-14:15 MW, Bruininks Hall 114, In Person Term Based; Robert Brooker, Jeffrey Simon; 3 cr.  
14833 002 LEC, 11:45-13:00 TTh, Ruttan Hall B25, In Person Term Based; Kathryn Bushley; 3 cr.  
15100 090 LEC, Completely Online; Robert Brooker; 3 cr.

**4004 Cell Biology**

(Student Option; Prereq: BIOL 3020 or BIOL 4003 or grad MSB)  
14751 001 LEC, 09:45-11:00 MW, Mayo Bldg & Additions Auditori, In Person Term Based; Hiroshi Nakato, Sivaraj Sivaramakrishnan; 3 cr.  
14752 002 LEC, 17:30-18:45 TTh, McNeal Hall 33, In Person Term Based; Min Ni; 3 cr.  
15101 090 LEC, Completely Online; Jan Norrander; 3 cr.  
33213 003 LEC, 13:30-14:45 TTh, McNeal Hall 33, In Person Term Based; Min Ni; 3 cr.

**4201 Teaching in the Biology Laboratory (S-N only; Prereq: Student who is teaching in CBS lab course)**

14856 001 FWK, 00:00-00:00 , , Primarily Online; Cheryl Scott; 1 cr.  
14898 002 FWK, 00:00-00:00 , , Primarily Online; Adam Engelhardt; 1 cr.

**4590 Coral Reef Ecology**

(A-F only; Prereq: Introductory biology course with lab)  
14988 001 DIS, 12:50-14:50 T, Ecology Building 170, In Person Term Based; Melissa Palmer; 2 cr.

**4793W Directed Studies: Writing Intensive**

(S-N only; Prereq: instr consent, dept consent(WI))  
14874 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-6 cr.

**4794W Directed Research**

(S-N only; Prereq: instr consent, dept consent(WI))  
14875 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-6 cr.

**4960H Thesis Writing in the Biological Sciences: Developing the Literature Review**

(A-F only; )  
14899 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: instr consent, dept consent)  
14865 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-6 cr.

**4994 Directed Research**

(S-N only; Prereq: instr consent, dept consent)  
14866 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-6 cr.

**5272 Applied Biostatistics**

(A-F only; Prereq: High school algebra; BIOL 2003 recommended.)  
14926 001 LEC, 16:30-18:10 MW, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 BIOL 3272; Fumiaki Katagiri; 4 cr.

**Biology, Society, and Environ (BSE)****2001 An Introduction to Biology, Society, and Environment**

(A-F only; Prereq: BSE major. Must be completed prior to senior year.)  
19512 001 LEC, 14:30-16:25 W, Anderson Hall 310, In Person Term Based; Katherine Klink; 2 cr.

**3361W Geography and Public Policy**

(Student Option; WI)  
20591 001 LEC, 13:00-14:15 TTh, Anderson Hall 230, In Person Term Based; Meets With: 001 GEOG 3361W; Roderick Squires; 3 cr.

**3991 Biology, Society and Environment Capstone Completion**

(S-N only; )  
33609 001 IND, In Person Term Based; Katherine Klink; 1 cr.

**3996 Senior Project Directed Research**

(A-F only; Prereq-instr consent, dept consent, college consent.)  
19434 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun; 3-4 cr.  
20716 006 IND, In Person Term Based; Arun Saldanha; 3-4 cr.  
20717 007 IND, In Person Term Based; Abdi Samatar; 3-4 cr.  
20718 002 IND, In Person Term Based; Kathryn Grace; 3-4 cr.  
20719 003 IND, In Person Term Based; Daniel Griffin; 3-4 cr.  
20720 004 IND, In Person Term Based; Kurt Kipfmüller; 3-4 cr.  
20721 005 IND, In Person Term Based; Katherine Klink, Ivan Bialostoksy; 3-4 cr.  
20722 008 IND, In Person Term Based; Roderick Squires; 3-4 cr.  
20723 009 IND, In Person Term Based; 3-4 cr.

**3996H Honors: Senior Project Directed Research**

(A-F only; Prereq-instr consent, dept consent, college consent.)  
19436 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun; 3-4 cr.  
20724 002 IND, In Person Term Based; Kathryn Grace; 3-4 cr.  
20725 003 IND, In Person Term Based; Daniel Griffin; 3-4 cr.  
20726 004 IND, In Person Term Based; Kurt Kipfmüller; 3-4 cr.  
20727 005 IND, In Person Term Based; Katherine Klink; 3-4 cr.  
20728 006 IND, In Person Term Based; Arun Saldanha; 3-4 cr.  
20729 007 IND, In Person Term Based; Abdi Samatar; 3-4 cr.  
20730 008 IND, In Person Term Based; Roderick Squires; 3-4 cr.  
20731 009 IND, In Person Term Based; 3-4 cr.

**3997 Senior Project**

(A-F only; Prereq-instr consent, dept consent, college consent.)  
19435 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun; 2 cr.  
20732 002 IND, In Person Term Based; Kathryn Grace; 2 cr.  
20733 003 IND, In Person Term Based; Daniel Griffin; 2 cr.  
20734 004 IND, In Person Term Based; Kurt Kipfmüller; 2 cr.  
20735 005 IND, In Person Term Based; Katherine Klink, Ivan Bialostoksy; 2 cr.  
20736 006 IND, In Person Term Based; Arun Saldanha; 2 cr.  
20737 007 IND, In Person Term Based; Abdi Samatar; 2 cr.  
20738 008 IND, In Person Term Based; Roderick Squires; 2 cr.  
20739 009 IND, In Person Term Based; 2 cr.

**3997H Honors: Senior Project**

(A-F only; Prereq-instr consent, dept consent, college consent.)  
19437 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun; 2 cr.  
20740 002 IND, In Person Term Based; Kathryn Grace; 2 cr.  
20741 003 IND, In Person Term Based; Daniel Griffin; 2 cr.  
20742 004 IND, In Person Term Based; Kurt Kipfmüller; 2 cr.  
20743 005 IND, In Person Term Based; Katherine Klink; 2 cr.  
20744 006 IND, In Person Term Based; Arun Saldanha; 2 cr.  
20745 007 IND, In Person Term Based; Abdi Samatar; 2 cr.  
20746 008 IND, In Person Term Based; Roderick Squires; 2 cr.  
20747 009 IND, In Person Term Based; 2 cr.

**Biomedical Engineering (BMEN)****1601 Biomedical Engineering Undergraduate Seminar I**

(A-F only; Prereq: CSE student)  
24782 001 LEC, 16:40-17:30 W, Molecular Cellular Biol 3-120, In Person Term Based; Robert Tranquillo; 1 cr.

**2401 Programming for Biomedical Engineers**

(A-F only; Prereq: MATH 1272, PHYS 1302, CSE student)  
25506 001 LEC, 12:20-13:10 T, Bruininks Hall 432, In Person Term Based; Jason Bjork; 2 cr.  
25507 002 LAB, 12:20-13:10 Th, Bruininks Hall 230, In Person Term Based; Jason Bjork; 2 cr.  
27020 003 LEC, 13:25-14:15 T, Mayo Bldg & Additions C231, In Person Term Based; Jason Bjork; 2 cr.  
27021 004 LAB, 13:25-14:15 Th, Bruininks Hall 432, In Person Term Based; Jason Bjork; 2 cr.

**2501 Cellular and Molecular Biology for Biomedical Engineers**

(A-F or Audit; Prereq: concurrent registration is required (or allowed) in CHEM 1022, concurrent registration is required (or allowed) in MATH 1372, concurrent registration is required (or allowed) in PHYS 1302, CSE student(BIOL))  
25498 001 LEC, 12:20-13:10 MWF, Rapsin Hall 100, In Person Term Based; Meets With: 001 BMEN 5501; Jonathan Sachs, Brian Herman; 4 cr.  
25499 002 LAB, 08:00-09:55 T, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.  
25500 003 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.  
25501 004 LAB, 08:00-09:55 Th, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.  
25502 005 LAB, 10:10-12:05 Th, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.  
25503 006 LAB, 13:25-15:20 M, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.  
26086 007 LAB, 13:25-15:20 W, Moos Health Sci Tower 3-343, In Person Term Based; Jonathan Sachs, Brian Herman; 4 cr.

**3011 Biomechanics**

(A-F or Audit; Prereq: BME Upper Div or dept consent)  
26277 001 LEC, 09:05-09:55 MWF, Jackson Hall 2-137, In Person Term Based; Patrick Alford; 3 cr.  
26278 002 DIS, 12:20-13:10 W, Amundson Hall 124, In Person Term Based; Patrick Alford; 3 cr.  
26279 003 DIS, 13:25-14:15 W, Amundson Hall 124, In Person Term Based; Patrick Alford; 3 cr.  
26280 004 DIS, 14:30-15:20 W, Amundson Hall 124, In Person Term Based; Patrick Alford; 3 cr.

**3015 Biomechanics Lab**

(A-F or Audit; Prereq: [BME UD or dept consent], concurrent registration is required (or allowed) in 3011)  
26281 001 LAB, 09:05-11:00 T, Moos Health Sci Tower 3-238, In Person Term Based; Patrick Alford; 1 cr.  
26282 002 LAB, 11:15-13:10 T, Moos Health Sci Tower 3-238, In Person Term Based; Patrick Alford; 1 cr.  
26283 003 LAB, 08:00-09:55 Th, Moos Health Sci Tower 3-238, In Person Term Based; Patrick Alford; 1 cr.  
26284 004 LAB, 11:15-13:10 Th, Moos Health Sci Tower 3-238, In Person Term Based; Patrick Alford; 1 cr.

**3151 Medical Device Practicum**

(A-F only; )  
34674 001 LEC, 15:35-16:25 W, Mayo Medical Device Ctr G217-1, In Person Term Based; Steven Saliterman; 1 cr.

**3211 Bioelectricity and Bioinstrumentation**

(A-F or Audit; Prereq: BME Upper Div or dept consent)  
26285 001 LEC, 11:15-12:05 MWF, Jackson Hall 2-137, In Person Term Based; Taner Akkin, Zhi Yang; 3 cr.  
26286 002 DIS, 11:15-12:05 T, Akerman Hall 317, In Person Term Based; Taner Akkin, Zhi Yang; 3 cr.  
26287 003 DIS, 11:15-12:05 Th, Akerman Hall 327, In Person Term Based; Taner Akkin, Zhi Yang; 3 cr.  
26288 004 DIS, 08:00-08:50 W, Akerman Hall 211, In Person Term Based; Taner Akkin, Zhi Yang; 3 cr.

**3215 Bioelectricity and Bioinstrumentation Lab**

(A-F or Audit; Prereq: [BMEN Upper Div or dept consent], concurrent registration is required (or allowed) in 3211)  
26289 001 LAB, 13:25-15:20 T, Moos Health Sci Tower 3-349, In Person Term Based; Taner Akkin, Zhi Yang; 1 cr.  
26290 002 LAB, 16:35-18:30 T, Moos Health Sci Tower 3-349, In Person Term Based; Taner Akkin, Zhi Yang; 1 cr.  
26291 003 LAB, 13:25-15:20 Th, Moos Health Sci Tower 3-349, In Person Term Based; Taner Akkin, Zhi Yang; 1 cr.  
26292 004 LAB, 15:35-17:30 Th, Moos Health Sci Tower 3-349, In Person Term Based; Taner Akkin, Zhi Yang; 1 cr.

**3601 Biomedical Engineering Careers and Practice in the Med Tech Industry**

(A-F only; )  
26416 001 LEC, 12:20-13:10 M, Molecular Cellular Biol 2-120, In Person Term Based; Mark Kroll; 1 cr.

**4001W Biomedical Engineering Design I (A-F or Audit; Prereq: 2501, 3001, 3101, 3201, 3301, 3701WI)**

24833 001 LEC, 13:25-14:15 TTh, Smith Hall 331, In Person Term Based; Shai Ashkenazi; 3 cr.  
24834 002 DIS, In Person Term Based; Shai Ashkenazi; 3 cr.

**4011 CAD/CAE of Bioelectrical Devices**

(A-F or Audit; Prereq: [3211, 3215] or instr consent)  
26445 001 LAB, 17:00-17:50 T, Keller Hall 1-200, In Person Term Based; Birin Yucesan ; 1 cr.

**4013 CAD of Biomechanical/transport Devices**

(A-F or Audit; Prereq: BME Upper Division or instr consent)  
26446 001 LAB, 13:25-14:15 M, Keller Hall 1-200, In Person Term Based; Paul Hattan ; 1 cr.  
26744 002 LAB, 14:30-15:20 M, Keller Hall 1-200, In Person Term Based; Paul Hattan ; 1 cr.

**4015 CAE of Biomechanical/transport Devices**

(A-F or Audit; Prereq: 3011, 3015, 3111, 3115)  
26447 001 LAB, 16:40-17:55 M, Keller Hall 1-200, In Person Term Based; Ismail Guler ; 1 cr.

**4710 Directed Research**

(A-F or Audit; Prereq: instr consent, dept consent)  
24783 001 IND, 00:00-00:00 , , In Person Term Based; Chun Wang ; 1-4 cr.

**4720 Directed Study**

(A-F or Audit; Prereq: instr consent, dept consent)  
24784 001 IND, 00:00-00:00 , , In Person Term Based; Chun Wang ; 1-4 cr.

**4794H Directed Research Honors**

(A-F only; Prereq: BME UD, UHP student, instr consent, dept consent)  
26479 001 IND, 00:00-00:00 , , In Person Term Based; Casim Sarkar ; 1-4 cr.

**4896 Industrial Assignment I: Co-op Program**

(A-F only; Prereq: BMEn upper div, completion of required courses in BMEn prog through spring sem of 3rd yr, registered in co-op prog prereq: BMEn upper div, completion of required courses in BMEn prog through spring sem of 3rd yr, registered in co-op prog)  
25902 001 FWK, 00:00-00:00 , , Independent/Directed Study; Chun Wang ; 2 cr.

**4996W Industrial Assignment II: Co-op Program**

(A-F only; Prereq: 4896, registered in co-op progWI)  
25915 001 FWK, 00:00-00:00 , , Independent/Directed Study; Chun Wang, Frank Kelso ; 4 cr.

**5001 Advanced Biomaterials**

(A-F or Audit; Prereq: 3301 or MatS 3011 or grad student or instr consent)  
24571 001 LEC, 11:15-12:30 TTh, Rapson Hall 45, In Person Term Based; Wei Shen ; 3 cr.

**5201 Advanced Biomechanics**

(Student Option; Prereq: [[3001 or equiv], [CSE upper div or grad student]] or instr consent)  
24913 001 LEC, 11:15-12:05 MWF, Keller Hall 3-125, In Person Term Based; Patrick Alford ; 3 cr.  
26189 883 LEC, 11:15-12:05 MWF, ONLINE, Completely Online; Patrick Alford ; 3 cr.

**5351 Cell Engineering**

(Student Option; Prereq: [2401, [2501 or concurrent registration is required (or allowed) in 5501], [MATH 2243 or MATH 2373]] or CSE upper div or grad student or instr consent)  
25891 001 LEC, 14:30-15:45 TTh, Rapson Hall 45, In Person Term Based; David Odde ; 3 cr.

**5361 3D Bioprinting**

(A-F only; )  
27124 001 LEC, 16:50-18:30 M, Amundson Hall 116, In Person Term Based; Angela Panoskaltis-Mortari ; 2 cr.

**5401 Advanced Biomedical Imaging**

(A-F or Audit; Prereq: CSE upper div or grad student or instr consent)  
26856 001 LEC, 14:30-15:45 TTh, Keller Hall 3-125, In Person Term Based; Alexander Opitz ; 3 cr.  
32924 883 LEC, 14:30-15:45 TTh, ONLINE, Completely Online; Alexander Opitz ; 3 cr.

**5411 Neural Engineering**

(Student Option; Prereq: 3401 recommended)  
25868 001 LEC, 11:15-12:30 TTh, Keller Hall 3-125, In Person Term Based; Tay Netoff ; 3 cr.  
26000 883 LEC, 11:15-12:30 TTh, ONLINE, Completely Online; Tay Netoff ; 3 cr.

**5412 Neuromodulation**

(A-F or Audit; )  
26995 001 LEC, 13:00-14:15 MW, Mechanical Engineering 102, In Person Term Based; Matthew Johnson ; 3 cr.  
27016 883 LEC, 13:00-14:15 MW, ONLINE, Completely Online; Matthew Johnson ; 3 cr.

**5501 Biology for Biomedical Engineers**

(Student Option; Prereq: Engineering upper div or grad student)  
25504 001 LEC, 12:20-13:10 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 BMEN 2501; Jonathan Sachs, Brian Herman ; 3 cr.

**5701 Cancer Bioengineering**

(A-F or Audit; Prereq: [Upper division CSE undergraduate, CSE graduate student] or instr consent)  
26305 001 LEC, 09:45-11:00 WF, Amundson Hall 124, In Person Term Based; Paolo Provenzano ; 3 cr.

**Bioproducts and Biosystems Eng (BBE)****1001 Bioproducts and Biosystems Engineering Orientation**

(S-N or Audit; )  
25770 001 LEC, 15:00-16:55 Th, Kaufert Laboratory 302, In Person Term Based; Ulrike Tschirmer, Joe Magner ; 1 cr.  
26339 002 LEC, 15:00-16:55 Th, Hodson Hall 490, In Person Term Based; Joe Magner, Ulrike Tschirmer ; 1 cr.

**1002 Biorenewable Resources**

(Student Option; TS)  
22017 001 LEC, Completely Online; William Tai Yin Tze ; 3 cr.

**2001 Mechanics and Structural Design**

(A-F or Audit; Prereq: [MATH 1272 or MATH 1372], [PHYS 1101 or PHYS 1301])  
25783 001 LEC, 09:35-10:25 MW, Green Hall 110, In Person Term Based; Jonathan Chaplin ; 4 cr.  
25784 002 LAB, 10:40-12:35 T, Coffey Hall 50, In Person Term Based; Jonathan Chaplin ; 4 cr.  
26227 003 LAB, 13:55-15:50 T, Coffey Hall 50, In Person Term Based; Jonathan Chaplin ; 4 cr.

**2003 Computer Applications in Bioproducts and Biosystems Engineering**

(A-F or Audit; Prereq: (Math 1271 or Math 1371, Math 1272 or Math 1372, Concurrent registration in [(Math 2243 or 2373) OR (Math 2263 or 2374)]) CSE lower division or CSE Upper Division BBE Majors or CFANS Pre-BBE (Premajor) or instructor consent.)  
27115 001 LEC, 08:05-10:00 T, Hodson Hall 490, In Person Term Based; Ce Yang, Huajiang Huang, Zhenong Jin ; 3 cr.  
27116 002 LAB, 12:50-15:50 F, Coffey Hall 50, In Person Term Based; Ce Yang, Huajiang Huang, Zhenong Jin ; 3 cr.  
27117 003 LAB, 12:50-15:50 F, Skok Hall 35, In Person Term Based; Ce Yang, Huajiang Huang, Zhenong Jin ; 3 cr.

**2201 Renewable Energy and the Environment**

(Student Option; TS)  
21995 001 LEC, 00:00-00:00 , ONLINE, Completely Online; David Schmidt, Cindy McComas ; 3 cr.

**3002 Introduction to Engineering Design**

(A-F only; Prereq: [MATH 1271 or MATH 1371, CHEM 1021, BBE lower div (soph) or upper div (jr), freshman writing req] or instr consent)  
25981 001 LEC, 13:55-14:45 MW, Kaufert Laboratory 302, In Person Term Based; Bo Hu, John Chapman ; 3 cr.  
25982 003 LAB, 15:00-16:50 M, Green Hall 210A, In Person Term Based; Bo Hu, John Chapman ; 3 cr.  
25983 002 LAB, 15:00-16:50 M, Coffey Hall 50, In Person Term Based; Bo Hu, John Chapman ; 3 cr.  
26409 004 LAB, 15:00-16:50 M, Skok Hall 35, In Person Term Based; Bo Hu, John Chapman ; 3 cr.

**3012 Transport in Biological Processes I**

(A-F only; Prereq: 2001, 3033, [MATH 2373 or equiv], [MATH 2374 or equiv], [PHYS 1302W or equiv] or instr consent)  
26024 001 LEC, 10:15-11:30 TTh, Ruttan Hall B35, In Person Term Based; Koray Sekeroglu, Mrinal Bhattacharya ; 4 cr.

26025 002 LAB, 09:30-12:00 F, Biosystems & Ag Eng Bldg 106, In Person Term Based; Koray Sekeroglu, Mrinal Bhattacharya ; 4 cr.  
26181 003 LAB, 08:45-11:15 M, Biosystems & Ag Eng Bldg 106, In Person Term Based; Mrinal Bhattacharya, Koray Sekeroglu ; 4 cr.

**3013 Engineering Principles of Molecular and Cellular Processes**

(A-F or Audit; Prereq: BIOL 1009, [concurrent registration is required (or allowed) in CHEM 1062 or equiv], [concurrent registration is required (or allowed) in CHEM 1066 or equiv], [MATH 1372 or equiv], [BIOC 2011 or CHEM 2301], or instr consent)  
25896 001 LEC, 11:45-12:35 MW, Kaufert Laboratory 302, In Person Term Based; Brett Barney ; 3 cr.  
25897 002 LAB, 15:00-17:00 W, Room TBA, In Person Term Based; Brett Barney ; 3 cr.  
25898 003 LAB, 15:00-17:00 Th, Room TBA, In Person Term Based; Brett Barney ; 3 cr.

**3023 Ecological Engineering Principles**

(Student Option; Prereq: BIOL 1009, [3012 or concurrent registration is required (or allowed) in 3012] or instr consent)  
25772 001 LEC, 12:50-13:40 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Chuck Clanton ; 3 cr.  
25773 002 LAB, 13:55-16:15 T, Biosystems & Ag Eng Bldg 106, In Person Term Based; Chuck Clanton ; 3 cr.

**3093 Directed Studies**

(Student Option; Prereq: instr consent)  
25776 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)  
22037 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Natalie Hunt ; 3 cr.

**3393 Directed Study**

(Student Option; Prereq: instr consent)  
21878 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**3396 Industry Assignment**

(A-F or Audit; )  
21879 001 FWK, 00:00-00:00 , , In Person Term Based; 1 cr.

**4001 Chemistry of Biomass and Biomass Conversion to Fuels and Products**

(A-F or Audit; Prereq: CHEM 2301 or instr consentENV)  
25785 001 LEC, 12:50-13:40 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 CHEM 4001001 BBE 5001; Ulrike Tschirmer ; 4 cr.  
26200 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 002 BBE 5001; Ulrike Tschirmer ; 4 cr.

**4023W Process Control and Instrumentation**

(A-F or Audit; Prereq: Upper div CSE or grad studentWI)  
25774 001 LEC, 12:50-13:40 MW, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 5023; Ce Yang, Peter Marchetto ; 3 cr.  
25775 002 LAB, 12:50-14:30 F, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 002 BBE 5023; Ce Yang, Peter Marchetto ; 3 cr.  
26182 003 LAB, 14:45-16:25 F, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 003 BBE 5023; Ce Yang, Peter Marchetto ; 3 cr.  
26397 004 LAB, 12:50-14:30 Th, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 004 BBE 5023; Ce Yang, Peter Marchetto ; 3 cr.

**4301 Applied Surface and Colloid Science**

(Student Option; Prereq: 3043 or BMEN 2101 or CHEN 3101 or CHEM 4501 or instr consent)  
26405 001 LEC, 13:30-14:45 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5301001 CHEM 4301; Matthew Dubay ; 3 cr.

**4401 Bioproducts Separation and Purification Processes**

(A-F or Audit; )  
25786 001 LEC, 11:45-13:15 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5401; Shri Ramaswamy ; 3 cr.

**4402 Bio-based Products Engineering Lab II**

(A-F or Audit; Prereq: BBE 2003 and BBE 4013, [jr or sr or instr consent])

26982 001 LAB, 08:30-11:00 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 5402; Shri Ramaswamy, Huajiang Huang, Ulrike Tschirner ; 1 cr.  
26985 002 LAB, 08:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 5402; Huajiang Huang, Shri Ramaswamy, Ulrike Tschirner ; 1 cr.

#### 4404 Biopolymers and Biocomposites Engineering

(A-F or Audit; Prereq: [BBE/CSE upper division] or instr consent)  
26403 001 LEC, 10:15-11:30 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 5404; William Tai Yin Tze ; 3 cr.

#### 4491 Independent Study

(Student Option; Prereq: CSE or CFANS students, Upper Division; instructor permission)  
22196 001 IND, In Person Term Based; 1-4 cr.

#### 4535 Assessment and Diagnosis of Impaired Waters

(A-F only; Prereq: Upper division CSE or CFANS or CBS student or instr consent)  
25989 001 LEC, 08:45-10:00 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 5535; Joe Magner ; 3 cr.

#### 4608 Environmental and Industrial Microbiology

(A-F only; Prereq: [BIOL 1001 or BIOL 1009], CHEM 1011)  
22246 001 LEC, 13:30-14:45 TTh, Magrath Library 6, In Person Term Based; Meets With: 001 BBE 5608; Brett Barney, Bo Hu, Jiwei Zhang ; 3 cr.

#### 4744 Engineering Principles for Biological Scientists

(A-F or Audit; Prereq: [Math 1142 or Math 1271], Phys 1101; intended for non engineering students)  
25777 001 LEC, 08:45-10:00 TTh, Kaufert Laboratory 302, In Person Term Based; Abdennour ABBAS ; 4 cr.  
25778 002 LAB, 12:50-15:50 Th, Haecker Hall 205, In Person Term Based; Kumar Mallikarjunan, Shahin Roothinejad ; 4 cr.

#### 4801H Honors Research

(A-F or Audit; Prereq: BBE upper div honors, instr consent)  
21882 001 IND, 00:00-00:00 , , In Person Term Based; 2 cr.

#### 4802H Honors Research

(A-F or Audit; Prereq: BBE upper div honors, instr consent)  
21883 001 IND, 00:00-00:00 , , In Person Term Based; 2 cr.

#### 4900 Intern Reports

(A-F or Audit; Prereq: [CSE or CFANS] student in BBE, instr consent)  
25779 001 FWK, 00:00-00:00 , , In Person Term Based; 2 cr.

#### 5001 Chemistry of Biomass and Biomass Conversion to Fuels and Products

(A-F or Audit; Prereq: Grad student or instr consent)  
25787 001 LEC, 12:50-13:40 MWF, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 CHEM 4001001 BBE 4001; Ulrike Tschirner ; 4 cr.  
26929 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 002 BBE 4001; Ulrike Tschirner ; 4 cr.

#### 5023 Process Control and Instrumentation

(Student Option; Prereq: Grad student or instr consent)  
25789 001 LEC, 12:50-13:40 MW, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 4023W; Ce Yang, Peter Marchetto ; 3 cr.  
26399 002 LAB, 12:50-14:30 F, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 002 BBE 4023W; Ce Yang, Peter Marchetto ; 3 cr.  
26400 003 LAB, 14:45-16:25 F, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 003 BBE 4023W; Ce Yang, Peter Marchetto ; 3 cr.  
26401 004 LAB, 12:50-14:30 Th, Biosystems & Ag Eng Bldg 105, In Person Term Based; Meets With: 004 BBE 4023W; Ce Yang, Peter Marchetto ; 3 cr.

#### 5095 Special Problems

(Student Option; Prereq: instr consent)  
25780 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

#### 5301 Applied Surface and Colloid Science

(Student Option; )  
26406 001 LEC, 13:30-14:45 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4301001 CHEM 4301; Matthew Dubay ; 3 cr.

#### 5402 Bio-based Products Engineering Lab II

(A-F or Audit; )  
26983 001 LAB, 08:30-11:00 W, Kaufert Laboratory 60, In Person Term Based; Meets With: 001 BBE 4402; Shri Ramaswamy, Huajiang Huang, Ulrike Tschirner ; 1 cr.  
26986 002 LAB, 08:30-11:00 F, Kaufert Laboratory 60, In Person Term Based; Meets With: 002 BBE 4402; Huajiang Huang, Shri Ramaswamy, Ulrike Tschirner ; 1 cr.

#### 5404 Biopolymers and Biocomposites Engineering

(A-F or Audit; Prereq: grad student or instr consent)  
26404 001 LEC, 10:15-11:30 TTh, Kaufert Laboratory 302, In Person Term Based; Meets With: 001 BBE 4404; William Tai Yin Tze ; 3 cr.

#### 5513 Watershed Engineering

(A-F or Audit; Prereq: 3023, upper div CSE)  
25781 001 LEC, 11:45-12:35 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Bruce Wilson ; 3 cr.  
25782 002 LAB, 14:55-17:25 Th, Biosystems & Ag Eng Bldg 106, In Person Term Based; Bruce Wilson ; 3 cr.

#### 5535 Assessment and Diagnosis of Impaired Waters

(A-F only; Prereq: Grad student or instr consent)  
25900 001 LEC, 08:45-10:00 TTh, Biosystems & Ag Eng Bldg 106, In Person Term Based; Meets With: 001 BBE 4535; Joe Magner ; 3 cr.

#### 5608 Environmental and Industrial Microbiology

(A-F only; Prereq: [BIOL 1001 or BIOL 1009], CHEM 1011)  
22247 001 LEC, 13:30-14:45 TTh, Magrath Library 6, In Person Term Based; Meets With: 001 BBE 4608; Brett Barney, Bo Hu, Jiwei Zhang ; 3 cr.

### Business Administration (BA)

#### 1001 Introduction to Analyzing Business Problems using Excel

(A-F only; )  
22851 001 LEC, 08:00-08:50 TTh, Carlson School of Mgmt L-114, In Person Term Based; Jeff Bailey ; 1 cr.  
22852 002 LEC, 11:15-12:05 TTh, Carlson School of Mgmt L-114, In Person Term Based; Jeff Bailey ; 1 cr.  
22853 003 LEC, 11:15-12:05 MW, Carlson School of Mgmt L-122, In Person Term Based; Helen Moser ; 1 cr.  
22854 004 LEC, 10:10-11:00 TTh, Carlson School of Mgmt L-114, In Person Term Based; Jeff Bailey ; 1 cr.  
22855 005 LEC, 09:05-09:55 TTh, Carlson School of Mgmt L-114, In Person Term Based; Jeff Bailey ; 1 cr.  
22856 006 LEC, 10:10-11:00 MW, Carlson School of Mgmt L-122, In Person Term Based; Jeff Bailey ; 1 cr.  
22857 007 LEC, 11:15-12:05 MW, Carlson School of Mgmt L-122, In Person Term Based; Lisa Kline ; 1 cr.  
22870 008 LEC, 10:10-11:00 MW, Carlson School of Mgmt L-122, In Person Term Based; Lisa Kline ; 1 cr.  
22871 009 LEC, 13:25-14:15 TTh, Carlson School of Mgmt L-122, In Person Term Based; Helen Moser ; 1 cr.

#### 3000 Career Skills

(S-N only; Prereq: CSOM [soph or upper div] major, MACC, MBT)  
22468 003 LEC, 08:15-09:30 T, Carlson School of Mgmt 2-224, In Person Term Based; Mark Sorenson-Wagner ; 1 cr.  
22469 004 LEC, 09:55-11:10 T, Carlson School of Mgmt 2-224, In Person Term Based; Rebecca Dordel ; 1 cr.  
22470 002 LEC, 16:00-17:15 M, Carlson School of Mgmt L-122, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
22473 005 LEC, 16:00-17:15 T, Carlson School of Mgmt 1-135, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
22478 006 LEC, 13:45-15:00 W, Carlson School of Mgmt 1-143, In Person Term Based; Xiaoji Zhang ; 1 cr.  
22523 007 LEC, 16:00-17:15 W, Carlson School of Mgmt L-122, In Person Term Based; Jennifer Fuhrman ; 1 cr.  
22524 008 LEC, 09:55-11:10 Th, Carlson School of Mgmt 2-224, In Person Term Based; Tara Dillon ; 1 cr.  
22653 001 LEC, 13:45-15:00 M, Carlson School of Mgmt 1-143, In Person Term Based; Deirdre Opp ; 1 cr.  
22835 009 LEC, 08:15-09:30 Th, Carlson School of Mgmt 2-224, In Person Term Based; Frankie Massaroni ; 1 cr.  
31396 010 LEC, 09:55-11:10 F, Carlson School of Mgmt 1-135, In Person Term Based; Maggie Tomas ; 1 cr.

#### 3998 Directed Study

(Student Option; Prereq: CSOM major, instr consent)  
22453 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.

#### 3999 Internship Seminar

(S-N only; Prereq: Approved internship, instr consent)  
22628 001 IND, 00:00-00:00 , , In Person Term Based; Xiaoji Zhang ; 1 cr.  
22747 002 IND, 00:00-00:00 , , In Person Term Based; Xiaoji Zhang ; 1 cr.

#### 4501 Carlson Funds Enterprise: Growth

(A-F only; Prereq: concurrent registration is required (or allowed) in MBA 6501, CSOM [jr or sr], approved application)  
22792 001 FWK, 08:00-09:40 TTh, Room TBA, In Person Term Based; Susanna Gibbons ; 3 cr.

#### 4502 Carlson Funds Enterprise: Fixed Income

(A-F only; Prereq: concurrent registration is required (or allowed) in MBA 6501, CSOM [jr or sr], approved application)  
22793 001 FWK, 08:00-09:40 MW, Room TBA, In Person Term Based; Rick Nelson ; 3 cr.

#### 4503 Carlson Ventures Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6503, CSOM [jr or sr], approved application)  
22525 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Meets With: 001 MBA 6503; Tobin Nord ; 2-3 cr.

#### 4504 Carlson Consulting Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6504, CSOM [jr or sr], approved application)  
22526 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Meets With: 001 MBA 6504; Siddharth Chandramouli ; 3 cr.

#### 4505 Brand Enterprise

(Student Option No Audit; Prereq: concurrent registration is required (or allowed) in MBA 6505, CSOM [jr or sr], approved application)  
22527 001 FWK, 08:00-09:40 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Meets With: 001 MBA 6505; David Hopkins ; 3 cr.

#### 4992V Honors Thesis Seminar

(A-F only; Prereq: Senior honors student(WI))  
22842 001 LEC, 11:50-13:05 MW, Carlson School of Mgmt 1-149, In Person Term Based; Colleen Manchester ; 3 cr.

#### 4994H Directed Research

(A-F only; Prereq: Honors)  
22602 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.

### Business Law (BLAW)

#### 3058 The Law of Contracts and Agency

(A-F or Audit; )  
22428 001 DIS, 08:00-09:40 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 4 cr.  
22429 020 DIS, 17:45-21:05 W, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 4 cr.  
22873 002 DIS, 10:10-11:50 MW, Hanson Hall 1-103, In Person Term Based; Jack Kramer ; 4 cr.

#### 3059 Real Estate Law

(A-F only; )  
22919 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Jack Kramer ; 2 cr.

### Carlson Executive MBA (CMBA)

#### Center for Allied Health Prog (CAHP)

#### 5110 Foundations of Interprofessional Communication and Collaboration

(S-N only; Prereq: Enrolled CLSP or OT student)  
13961 001 LEC, In Person Term Based; 1 cr.  
13962 002 LEC, In Person Term Based; 1 cr.  
13963 003 LEC, In Person Term Based; 1 cr.  
13964 004 LEC, In Person Term Based; 1 cr.

### Chemical Engineering (CHEN)

**1001 Advances in Chemical Engineering and Materials Science**

(S-N or Audit; Prereq: Recommended for [chemical engineering, materials science/engineering] majors)  
24757 001 LEC, 14:30-15:20 Th, Amundson Hall B75, In Person Term Based; Meets With: 001 MATS 1001; David Flannigan, Christopher Ellison ; 1 cr.

**2001 Material and Energy Balances**

(A-F or Audit; Prereq: concurrent registration is required (or allowed) in CHEM 2301 or equiv., concurrent registration is required (or allowed) in MATH 2374 or equiv., concurrent registration is required (or allowed) in PHYS 1302 or equiv., CSE student, C- or better in all pre-reqs)  
25843 002 DIS, 10:10-11:00 TTh, Amundson Hall 116, In Person Term Based; Alon McCormick, Kimberly Kostko ; 4 cr.  
25844 001 LEC, 15:35-16:25 MWF, Smith Hall 100, In Person Term Based; Alon McCormick ; 4 cr.  
25845 003 DIS, 11:15-12:05 TTh, Amundson Hall 120, In Person Term Based; Alon McCormick, Kimberly Kostko ; 4 cr.  
25846 004 DIS, 12:20-13:10 TTh, Amundson Hall 124, In Person Term Based; Alon McCormick ; 4 cr.  
25847 005 DIS, 15:35-16:25 TTh, Amundson Hall 124, In Person Term Based; Alon McCormick ; 4 cr.  
25867 006 DIS, 09:05-09:55 TTh, Amundson Hall 116, In Person Term Based; Alon McCormick ; 4 cr.  
25905 007 DIS, 08:00-08:50 TTh, Amundson Hall 120, In Person Term Based; Alon McCormick ; 4 cr.

**2594 Directed Research Lower Division**

(Student Option No Audit; Prereq: instr consent, DUGS consent)  
26475 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Dorfman ; 1-4 cr.

**3005 Transport Phenomena: Momentum and Heat**

(A-F only; Prereq: [2001 or [transfer student, dept consent]], [Math 2373 or equiv.], upper div ChEn major, C- or better in all pre-reqs)  
24470 001 LEC, 10:10-11:00 MWF, Amundson Hall B75, In Person Term Based; Xiang Cheng ; 4 cr.  
24471 002 DIS, 08:00-08:50 TTh, Amundson Hall 162, In Person Term Based; Xiang Cheng ; 4 cr.  
24472 004 DIS, 10:10-11:00 TTh, Tate Hall 120, In Person Term Based; Xiang Cheng ; 4 cr.  
24473 005 DIS, 10:10-11:00 TTh, Amundson Hall 124, In Person Term Based; Xiang Cheng ; 4 cr.  
24474 006 DIS, 12:20-13:10 TTh, Akerman Hall 313, In Person Term Based; Xiang Cheng ; 4 cr.  
25941 007 DIS, 09:05-09:55 TTh, Amundson Hall 124, In Person Term Based; Xiang Cheng ; 4 cr.

**3101 Chemical Engineering Thermodynamics**

(A-F only; Prereq: 2001, CHEM 4501, [Math 2373 or equiv.],[upper div ChEn major or dept consent], C- or better in all pre-reqs)  
24475 001 LEC, 13:25-14:15 MWF, Amundson Hall B75, In Person Term Based; David Morse ; 4 cr.  
24476 002 DIS, 09:05-09:55 TTh, Amundson Hall 120, In Person Term Based; David Morse ; 4 cr.  
24477 004 DIS, 11:15-12:05 TTh, Akerman Hall 313, In Person Term Based; David Morse ; 4 cr.  
24478 005 DIS, 11:15-12:05 TTh, Molecular Cellular Biol 2-122, In Person Term Based; David Morse ; 4 cr.  
24917 006 DIS, 14:30-15:20 TTh, Amundson Hall 124, In Person Term Based; David Morse ; 4 cr.  
25820 007 DIS, 10:10-11:00 TTh, Amundson Hall 120, In Person Term Based; David Morse ; 4 cr.

**3701 Introduction to Biomolecular Engineering**

(A-F or Audit; Prereq: 2001, [[Chem 2302 or concurrent registration is required (or allowed) in Chem 2302] or equiv.], [Math 2373 or equiv.]; high school biology recommended; C- or better in all pre-reqs)  
25331 001 LEC, 09:05-09:55 MWF, Amundson Hall B75, In Person Term Based; Benjamin Hackel ; 3 cr.  
25332 002 DIS, 08:00-08:50 T, Amundson Hall 116, In Person Term Based; Benjamin Hackel ; 3 cr.  
25333 003 DIS, 09:05-09:55 T, Akerman Hall 317, In Person Term Based; Benjamin Hackel ; 3 cr.  
25334 004 DIS, 10:10-11:00 T, Akerman Hall 317, In Person Term Based; Benjamin Hackel ; 3 cr.  
25335 006 DIS, 12:20-13:10 T, Amundson Hall 120, In Person Term Based; Benjamin Hackel ; 3 cr.  
25336 007 DIS, 14:30-15:20 T, Amundson Hall 120, In Person Term Based; Benjamin Hackel ; 3 cr.

**4401W Senior Chemical Engineering Lab**

(A-F only; Prereq: CHEN 3006, CHEN 3401WWI)  
24479 001 LEC, 11:15-12:05 MWF, Amundson Hall B75, In Person Term Based; Samira Azarin ; 4 cr.  
24480 002 LAB, 14:00-17:30 F, Amundson Hall 350, 13:25-17:30 M, No Room Required, In Person Term Based; Samira Azarin ; 4 cr.  
24481 003 LAB, 08:30-12:00 Th, No Room Required, 08:00-12:00 T, Amundson Hall 350, In Person Term Based; Samira Azarin ; 4 cr.  
24482 004 LAB, 14:00-17:30 Th, No Room Required, 13:25-17:25 T, Amundson Hall 350, In Person Term Based; Samira Azarin ; 4 cr.  
24483 005 LAB, 14:00-17:30 M, No Room Required, 13:25-17:25 W, Amundson Hall 350, In Person Term Based; Samira Azarin ; 4 cr.  
24484 006 LAB, 08:30-12:00 T, No Room Required, 08:00-12:00 Th, Amundson Hall 350, In Person Term Based; Samira Azarin ; 4 cr.  
24485 007 LAB, 14:00-17:30 T, No Room Required, 13:25-17:25 Th, Amundson Hall 350, In Person Term Based; Samira Azarin ; 4 cr.  
24486 008 LAB, 14:00-17:30 W, No Room Required, 13:25-17:25 F, Lab TBA, In Person Term Based; Samira Azarin ; 4 cr.

**4593 Directed study**

(Student Option No Audit; Prereq: ChEn major upper division, instr consent)  
24535 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)  
24534 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Dorfman ; 1-4 cr.

**4594H Directed Research - Honors**

(A-F only; Prereq: instr and DUGS consent, upper div ChEn major)  
26351 001 IND, 00:00-00:00 , , In Person Term Based; Kevin Dorfman ; 1-4 cr.

**4601 Process Control**

(A-F or Audit; Prereq: [3102 or 4102], [upper div ChEn major or dept consent], C- or better in all pre-reqs)  
25942 001 LEC, 08:00-08:50 MWF, Amundson Hall B75, In Person Term Based; Prodromos Daoutidis ; 3 cr.  
25943 005 DIS, 11:15-12:05 TTh, Amundson Hall 158, In Person Term Based; Prodromos Daoutidis ; 3 cr.  
25944 006 DIS, 12:20-13:10 TTh, Amundson Hall 162, In Person Term Based; Prodromos Daoutidis ; 3 cr.  
25945 007 DIS, 14:30-15:20 TTh, Amundson Hall 162, In Person Term Based; Prodromos Daoutidis ; 3 cr.  
26051 003 DIS, 09:05-09:55 TTh, Amundson Hall 156, In Person Term Based; Prodromos Daoutidis ; 3 cr.  
26434 011 LAB, In Person Term Based; 3 cr.

**4701 Applied Math**

(A-F only; Prereq: [3102 or 4102], ChEn major upper div)  
24793 001 LEC, 08:00-09:55 TTh, Keller Hall 3-115, In Person Term Based; Meets With: 001 CHEN 8201001 MATS 8201; Kevin Dorfman ; 3 cr.

**4704 Advanced Undergraduate Physical Rate Processes I: Transport**

(A-F only; Prereq: [3005 or 4005], ChEn major upper div)  
24932 001 LEC, 14:30-15:20 MWF, Mayo Bldg & Additions C231, In Person Term Based; Meets With: 001 CHEN 8301001 MATS 8301; Jeffrey Derby ; 3 cr.

**5531 Electrochemical Engineering and Renewable Energy**

(A-F only; Prereq: [MATS 3011 or instr consent], [upper div CSE or grad student])  
33410 001 LEC, 14:30-15:20 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 MATS 5531; William Smyrl ; 3 cr.

**5751 Biochemical Engineering**

(A-F or Audit; Prereq: [3005 or 4005], [concurrent registration is required (or allowed) in 3006 or concurrent registration is required (or allowed) in 4006], [concurrent registration is required (or allowed) in 3102 or concurrent registration is required (or allowed) in 4102])  
26228 001 LEC, 09:05-09:55 MWF, Amundson Hall 104, In Person Term Based; Wei-Shou Hu ; 3 cr.

**5771 Colloids and Dispersions**

(A-F or Audit; Prereq: Physical chemistry)  
24787 001 LEC, 14:30-15:45 TTh, Amundson Hall 116, In Person Term Based; Joseph Zasadzinski ; 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)  
25452 001 LEC, Completely Online; Emily Pelton ; 3 cr.  
27081 002 LEC, 11:15-12:30 TTh, Bruininks Hall 330, Partially Online; Michelle Driessen ; 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)  
25453 001 LAB, 08:00-10:50 T, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
25519 002 LAB, 14:30-17:20 W, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
25520 003 LAB, 14:30-17:20 Th, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
25521 004 LAB, 18:00-20:50 Th, Smith Hall 249, In Person Term Based; Michelle Driessen ; 1 cr.  
26960 005 LAB, 14:30-17:20 T, 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)  
26110 001 LEC, 12:20-13:10 MWF, Smith Hall 100, In Person Term Based; Aaron Massari ; 3 cr.  
26111 002 LEC, 08:15-09:30 TTh, Smith Hall 100, In Person Term Based; Aaron Massari ; 3 cr.  
26112 003 LEC, 13:00-14:15 T, Bruininks Hall 114, Partially Online; Michelle Driessen ; 3 cr.  
26553 004 LEC, 13:00-14:15 Th, Bruininks Hall 114, Partially Online; Michelle Driessen ; 3 cr.  
26554 005 LEC, Completely Online; Michelle Driessen ; 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)  
26113 001 LEC, 11:15-12:05 MWF, Bruininks Hall 230, In Person Term Based; Valerie Pierre ; 3 cr.  
26114 002 LEC, 14:30-15:20 MWF, Smith Hall 100, In Person Term Based; Valerie Pierre ; 3 cr.  
26316 003 LEC, 11:15-12:30 TTh, Smith Hall 100, In Person Term Based; Wayne Gladfelder ; 3 cr.

**1065 Chemical Principles I Laboratory**

(A-F only; Prereq: concurrent registration is required (or allowed) in 1061PHYS)  
26153 002 LAB, 11:15-14:05 M, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26154 003 LAB, 14:30-17:20 M, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26155 004 LAB, 08:00-10:50 T, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26156 005 LAB, 11:15-14:05 T, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26157 006 LAB, 14:30-17:20 T, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26158 007 LAB, 08:00-10:50 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26159 008 LAB, 11:15-14:05 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26160 009 LAB, 14:30-17:20 W, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.  
26161 010 LAB, 08:00-10:50 Th, Smith Hall 110, In Person Term Based; Michelle Driessen ; 1 cr.



26787 005 LAB, 12:40-16:30 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])  
26054 001 LEC, 11:15-12:05 MWF, Tate Hall 105, Partially Online; David Blank ; 3 cr.

**4502 Introduction to Quantum Mechanics and Spectroscopy**  
(A-F or Audit; Prereq: [1062/1066 or 1072H/1076H of 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 2243 or MATH 2373 or concurrent registration is required (or allowed) in MATH 2373], [PHYS 1302 or PHYS 1402V or PHYS 1502V])  
25992 001 LEC, 10:10-11:00 MWF, Smith Hall 331, In Person Term Based; Jason Goodpaster ; 3 cr.

**4511W Advanced Physical Chemistry Lab**  
(Student Option; Prereq: 4501, 4502, chemistry majorWI)  
24208 001 LEC, 13:25-14:15 M, Smith Hall 231, In Person Term Based; Kenneth Leopold ; 3 cr.  
24209 002 LAB, 13:25-17:15 T, Kolthoff Hall 465, In Person Term Based; 3 cr.  
25940 003 LAB, 13:25-17:15 W, Kolthoff Hall 465, In Person Term Based; 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])  
24210 001 LEC, 12:20-13:10 MWF, Smith Hall 231, In Person Term Based; Connie Lu ; 3 cr.

**4715 Physical Inorganic Chemistry**  
(Student Option; Prereq: 4701 or equiv, chem major or instr consent)  
24301 001 LEC, 12:20-13:10 MWF, Smith Hall 121, In Person Term Based; Meets With: 001 CHEM 8715; Kent Mann ; 3 cr.

**4725 Organometallic Chemistry**  
(Student Option; Prereq: 4701 or equiv, chem major or instr consent)  
35226 001 LEC, 13:25-14:45 MW, Vincent Hall 1, In Person Term Based; Meets With: 001 CHEM 8725; Courtney Roberts ; 3 cr.

**4894H Senior Honors Thesis**  
(A-F only; Prereq: Honors student, instr consent)  
26473 001 IND, In Person Term Based; 1-3 cr.

## Chicano Studies (CHIC)

**1102 Latinos in the United States: Culture and Citizenship**  
(Student Option; DSJ,HIS)  
18203 001 LEC, 13:00-14:15 TTh, Nicholson Hall 35, In Person Term Based; Meets With: 001 CHIC 1102H; Jessica Lopez Lyman ; 3 cr.

**1102H Honors: Latinos in the United States: Culture and Citizenship**  
(A-F only; DSJ,HIS)  
19195 001 LEC, 13:00-14:15 TTh, Nicholson Hall 35, In Person Term Based; Meets With: 001 CHIC 1102; Jessica Lopez Lyman ; 3 cr.

**1913W Food and Culture: Latinidad Through Food and its Rituals, Economies, and Politics**  
(A-F only; WI)  
34731 001 DIS, 11:15-12:30 TTh, Blegen Hall 425, In Person Term Based; Karen Mary Davalos ; 3 cr.

**3212 Chicana Feminism: La Chicana in Contemporary Society**  
(Student Option; AH,DSJ)  
18188 001 LEC, 13:00-14:15 MW, Nicholson Hall 145, In Person Term Based; Magaly Ordonez ; 3 cr.

**3352 Transborder Theory: Global Views/ Borderland Spaces**  
(Student Option; )  
19707 001 LEC, 14:30-15:45 MW, Burton Hall 125, In Person Term Based; Roy Guzman ; 3 cr.

**3423 Central American Revolutions**  
(Student Option; )  
34375 001 LEC, 08:15-09:30 MW, Carlson School of Mgmt L-114, In Person Term Based; Meets With: 001 HIST 3423; Patrick McNamara ; 3 cr.

**3444 Chicana and Chicano History I**  
(Student Option; DSJ,HIS)  
18296 001 LEC, 11:15-12:30 TTh, Wullung Hall 220, In Person Term Based; Jimmy Patino ; 3 cr.

**3507W Introduction to Chicana/o Literature**  
(Student Option; DSJ,WI,LITR)  
18189 001 LEC, 09:45-11:00 MW, Nicholson Hall 145, In Person Term Based; Meets With: 001 ENGL 3507W; Alexandra Covarrubias ; 3 cr.  
18971 002 LEC, 11:15-12:30 MW, Nicholson Hall 145, In Person Term Based; Meets With: 002 ENGL 3507W; Alexandra Covarrubias ; 3 cr.

**3852 Chicana/o Politics**  
(Student Option; DSJ,SOCS)  
18204 001 LEC, 16:00-17:15 MW, Ford Hall 115, In Person Term Based; Meets With: 001 POL 3752; Alexandra Covarrubias ; 3 cr.

**3993 Directed Studies**  
(Student Option; Prereq: instr consent)  
16883 001 IND, In Person Term Based; 1-9 cr.

**4232 Chicana/o - Latina/o Gender and Sexuality Studies**  
(Student Option; AH,DSJ)  
19881 001 LEC, 16:00-18:30 Th, Amundson Hall 116, In Person Term Based; Eden Torres ; 3 cr.

**4275 Theory in Action: Community Engagement in a Social Justice Framework**  
(Student Option; CIV)  
33078 001 LEC, 14:30-15:45 TTh, Nicholson Hall 355, In Person Term Based; Jessica Lopez Lyman ; 3 cr.

**4901W Senior Paper**  
(A-F only; WI)  
33079 001 IND, In Person Term Based; 3 cr.

**5920 Topics in Chicana(o) Studies**  
(Student Option; )  
33861 001 LEC, 15:15-17:45 Th, Appleby Hall 103, 15:15-17:45 Th, Scott Hall 105, In Person Term Based; Jimmy Patino ; 3 cr.

**5993 Directed Studies**  
(Student Option; Prereq: instr consent)  
18339 002 IND, In Person Term Based; Jessica Lopez Lyman ; 1-3 cr.  
19879 001 IND, In Person Term Based; Jimmy Patino ; 1-3 cr.

## Child & Adolescent Psychiatry (CAPY)

## Child Psychology (CPSY)

**1301 Nature-Based Learning in Early Childhood**  
(A-F or Audit; )  
33136 001 DIS, 09:45-11:00 TTh, Elliott Hall N119, In Person Term Based; Sheila Williams Ridge ; 3 cr.

**2301 Introduction to Child Psychology**  
(Student Option; SOCS)  
15292 001 LEC, 09:45-11:00 MW, Nicholson Hall 155, In Person Term Based; Meets With: 001 CPSY 3301; Henriette Warren ; 4 cr.  
15293 002 DIS, 09:45-10:35 F, Nicholson Hall 120, In Person Term Based; Henriette Warren ; 4 cr.  
15294 003 DIS, 09:45-10:35 F, Nicholson Hall 315, In Person Term Based; Henriette Warren ; 4 cr.  
15295 004 DIS, 10:50-11:40 F, Nicholson Hall 120, In Person Term Based; Henriette Warren ; 4 cr.

15514 008 LEC, Completely Online; Meets With: 008 CPSY 3301; Eric Thibodeau, Jaclyn Johnson, ; 4 cr.

**3301 Introduction to Child Psychology**  
(Student Option; SOCS)  
16261 001 LEC, 09:45-11:00 MW, Nicholson Hall 155, In Person Term Based; Meets With: 001 CPSY 2301; Henriette Warren ; 4 cr.  
16262 002 DIS, 10:50-11:40 F, Nicholson Hall 315, In Person Term Based; Henriette Warren ; 4 cr.  
16263 008 LEC, Completely Online; Meets With: 008 CPSY 2301; Eric Thibodeau, Jaclyn Johnson, ; 4 cr.

**3308W Introduction to Research Methods in Child Psychology**  
(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv WI)  
15761 001 LEC, 09:45-11:25 MW, Cooke Hall 214, In Person Term Based; Chryle Elieff ; 4 cr.

**3360H Child Psychology Honors Seminar**  
(A-F or Audit; Prereq: CPSY honors student)  
16275 001 LEC, 11:30-13:10 W, Child Development 172, 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 CPSY, PSY, or FSOS)  
33137 001 DIS, 16:00-17:45 Th, Peik Hall 225, Partially Online; Sarah Wiebler ; 3 cr.  
33326 002 DIS, Completely Online; JoHannah Orman ; 3 cr.

**3896 Internship in Child Psychology**  
(S-N only; )  
33142 001 FWK, Completely Online; Meghan Eliason ; 1-4 cr.

**4302 Infant Development**  
(A-F or Audit; Prereq: CPSY 2301 or equivalent or instructor consent)  
16410 001 LEC, 13:00-14:15 TTh, Scott Hall 4, In Person Term Based; Rebecca Distefano ; 3 cr.

**4303 Adolescent Psychology**  
(A-F or Audit; Prereq: PSY 1001 or equivalent)  
33141 001 DIS, Completely Online; Amanda Hodel ; 3 cr.

**4310 Special Topics in Child Development**  
(Student Option; )  
34395 001 LEC, 14:30-15:45 TTh, Nicholson Hall 120, In Person Term Based; Maria Sera ; 1-4 cr.

**4311 Behavioral and Emotional Problems of Children**  
(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
15296 001 LEC, 16:00-17:15 MW, Murphy Hall 130, In Person Term Based; Canan Karatekin ; 3 cr.

**4331 Social and Personality Development**  
(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
15298 001 LEC, 13:00-14:15 MW, Rapson Hall 56, In Person Term Based; Daniel Berry ; 3 cr.

**4341 Perceptual Development**  
(Student Option; Prereq: CPSY 2301 / 3301 or equiv)  
16363 001 LEC, 11:15-12:30 TTh, Nicholson Hall 35, In Person Term Based; Kirsten Dalrymple ; 3 cr.

**4343 Cognitive Development**  
(A-F or Audit; Prereq: CPSY 2301 or 3301 or equivalent)  
15297 001 LEC, 14:30-15:45 TTh, Armory Building 116, In Person Term Based; Stephanie Carlson ; 3 cr.

**4345 Language Development and Communication**  
(A-F or Audit; Prereq: CPSY 2301 / 3301 or equiv)  
15941 001 LEC, 11:15-12:30 TTh, Elliott Hall N647, In Person Term Based; Kaitlin Johnson ; 3 cr.

**4347W Child Psychology Capstone**  
(A-F or Audit; Prereq: Senior and completion of CPSY 3308W (or approved equivWI))  
15527 001 LEC, 11:15-12:30 MW, Burton Hall 120, In Person Term Based; Henriette Warren ; 2 cr.

**4994 Directed Research in Child Psychology**  
(Student Option; )  
34243 001 LAB, In Person Term Based; Daniel Berry ; 1-4 cr.  
34244 002 LAB, In Person Term Based; Elizabeth Carlson ; 1-4 cr.  
34245 003 LAB, In Person Term Based; Stephanie Carlson ; 1-4 cr.  
34246 004 LAB, In Person Term Based; Dante Cicchetti ; 1-4 cr.













**4235 Electronic Media and Ethnic Minorities--A World View**

(Student Option; )  
20494 001 LEC, 09:45-11:00 MW, Ford Hall B53, In Person Term Based; Jules Wight ; 3 cr.

**4291 New Telecommunication Media**

(A-F or Audit; Prereq: 3211 or instr consent)  
32773 001 LEC, 14:30-15:45 TTh, Ford Hall 127, In Person Term Based; Gilbert Rodman ; 3 cr.

**4407 Communication and Conflict**

(A-F or Audit; Prereq: 3401 or instr consent)  
32772 001 LEC, 11:15-12:30 MW, Tate Hall B55, In Person Term Based; Susanne Jones ; 3 cr.

**5110 Special Topics in Communication**

**Theory**  
(Student Option; )  
32998 001 LEC, 13:00-14:15 MW, Ford Hall B80, In Person Term Based; Karlyn Campbell ; 3 cr.  
33317 002 LEC, 11:15-12:30 TTh, Ford Hall B80, In Person Term Based; Dean Hewes ; 3 cr.

**5211 Critical Media Studies: Theory and Methods**

(A-F only; Prereq: Grad student or instr consent)  
19847 001 LEC, 14:30-17:00 M, Kolthoff Hall 139, In Person Term Based; Mary Vavrus ; 3 cr.

**5441 Communication in Human Organizations**

(Student Option; )  
18440 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Stephanie Galarneault ; 3 cr.  
20247 001 LEC, 17:30-20:30 T, Ford Hall B60, In Person Term Based; Jeremy Rose ; 3 cr.

**5611 Survey of Rhetorical Theory**

(Student Option; )  
32769 001 LEC, 14:30-15:45 TTh, Ford Hall B80, In Person Term Based; Gustaf Atilla Hallaby ; 3 cr.

**5617 History and Criticism of U.S. Public Discourse: 1630-1865**

(Student Option; Prereq: Jr)  
32771 001 LEC, 13:00-14:15 TTh, Ford Hall B53, In Person Term Based; Zornitsa Keremidchieva ; 3 cr.

**5970 Directed Study**

(Student Option; )  
16934 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

**Comparative & Molecular Biosci (CMB)****5594 Directed Research in Comparative and Molecular Biosciences**

(Student Option; Prereq: Jr, instr consent)  
10270 001 LAB, 00:00-00:00 , , In Person Term Based; Kent Reed ; 1-4 cr.  
10309 002 LAB, 00:00-00:00 , , In Person Term Based; Mark Rutherford ; 1-4 cr.

**5915 Essential Statistics for Life Sciences**

(A-F or Audit; )  
32862 001 LEC, 10:30-12:00 TTh, Veterinary Science 215, In Person Term Based; Meets With: 001 VMED 5915; Aaron Rendahl ; 3 cr.

**Computer Science (CSCI)****1103 Introduction to Computer Programming in Java**

(Student Option; )  
24236 001 LEC, 10:10-11:00 MWF, Anderson Hall 370, In Person Term Based; Chris Dovolis ; 4 cr.  
24237 003 LAB, 13:25-15:20 M, Walter Library 106, In Person Term Based; Chris Dovolis ; 4 cr.  
24547 002 LAB, 11:15-13:10 M, Walter Library 106, In Person Term Based; Chris Dovolis ; 4 cr.  
25800 004 LAB, 13:25-15:20 M, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
25903 005 LAB, 15:35-17:30 M, Keller Hall 1-262, In Person Term Based; Meets With: 006 CSCI 1103; Chris Dovolis ; 4 cr.  
26970 006 LAB, 15:35-17:30 M, Keller Hall 1-262, In Person Term Based; Meets With: 005 CSCI 1103; Chris Dovolis ; 4 cr.

33062 007 LAB, 17:45-19:40 M, Walter Library 106, In Person Term Based; Chris Dovolis ; 4 cr.

**1113 Introduction to C/C++ Programming for Scientists and Engineers**

(Student Option; Prereq: Math 1271 or Math 1371 or Math 1571H or instr consent)  
24238 001 LEC, 15:35-16:25 MWF, Keller Hall 3-210, In Person Term Based; Daniel Kluger ; 4 cr.  
24239 004 LAB, 08:00-11:00 Th, Keller Hall 1-250, In Person Term Based; Daniel Kluger ; 4 cr.  
24240 003 LAB, 17:45-20:45 W, Lind Hall 40, In Person Term Based; Daniel Kluger ; 4 cr.  
24241 005 LAB, 11:15-14:15 Th, Keller Hall 1-250, In Person Term Based; Daniel Kluger ; 4 cr.  
24242 010 LEC, 18:30-21:00 T, Tate Hall 101, In Person Term Based; Daniel Kluger ; 4 cr.  
24243 011 LAB, 14:30-17:30 W, Keller Hall 1-250, In Person Term Based; Daniel Kluger ; 4 cr.  
25934 006 LAB, 14:30-17:30 Th, Keller Hall 1-250, In Person Term Based; Daniel Kluger ; 4 cr.  
26245 013 LAB, 17:45-20:45 W, Keller Hall 1-262, In Person Term Based; Daniel Kluger ; 4 cr.  
26480 014 LAB, 12:20-15:20 F, Keller Hall 1-262, In Person Term Based; Daniel Kluger ; 4 cr.  
33066 002 LAB, 12:20-15:20 W, Keller Hall 1-262, In Person Term Based; Daniel Kluger ; 4 cr.  
33067 012 LAB, 17:45-20:45 W, Keller Hall 1-250, In Person Term Based; Daniel Kluger ; 4 cr.

**1133 Introduction to Computing and Programming Concepts**

(Student Option; Prereq: concurrent registration is required (or allowed) in MATH 1271 or concurrent registration is required (or allowed) in MATH 1371 or concurrent registration is required (or allowed) in MATH 1571H or instr consent)  
26295 001 LEC, 10:10-11:00 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Nathan Taylor ; 4 cr.  
26296 002 LAB, 08:00-09:55 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
26297 003 LAB, 10:10-12:05 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
26298 004 LAB, 12:20-14:15 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
26369 005 LAB, 14:30-16:25 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
26370 021 LAB, 08:00-09:55 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
26371 022 LAB, 10:10-12:05 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
26372 010 LEC, 18:30-21:00 W, Keller Hall 3-210, In Person Term Based; Nathan Taylor ; 4 cr.  
26373 011 LAB, 18:50-20:45 Th, Keller Hall 1-250, In Person Term Based; Nathan Taylor ; 4 cr.  
26374 012 LAB, 10:10-12:05 F, Walter Library 106, In Person Term Based; Nathan Taylor ; 4 cr.  
26452 013 LAB, 12:20-14:15 F, Walter Library 106, In Person Term Based; Nathan Taylor ; 4 cr.  
26468 024 LAB, 14:30-16:25 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
26481 023 LAB, 12:20-14:15 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
26718 020 LEC, 10:10-11:00 MWF, Fraser Hall 102, In Person Term Based; Lana Yarosh ; 4 cr.  
26771 025 LAB, 16:40-18:35 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
26778 006 LAB, 16:40-18:35 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
26962 007 LAB, 18:50-20:45 Th, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
27122 026 LAB, 18:50-20:45 Th, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
33068 008 LAB, 08:00-09:55 F, Keller Hall 1-262, In Person Term Based; Nathan Taylor ; 4 cr.  
33070 027 LAB, 08:00-09:55 F, Walter Library 106, In Person Term Based; Lana Yarosh ; 4 cr.  
35101 030 LEC, 13:25-14:15 MWF, Civil Engineering Bldg 212, In Person Term Based; Timothy Wrenn ; 4 cr.  
35102 031 LAB, 15:35-17:30 W, Lind Hall 40, In Person Term Based; Timothy Wrenn ; 4 cr.  
35103 032 LAB, 08:00-10:00 F, Lind Hall 40, In Person Term Based; Timothy Wrenn ; 4 cr.  
35442 014 LAB, 14:30-16:25 F, Walter Library 106, In Person Term Based; Nathan Taylor ; 4 cr.  
35509 015 LAB, 18:50-20:45 Th, Lab TBA, In Person Term Based; Nathan Taylor ; 4 cr.

**1133H Honors Introduction to Computing and Programming Concepts**

(A-F only; 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], CSci majors, pre-majors in CSE/CLA, honors student)

26407 001 LEC, 14:30-15:20 MWF, Amundson Hall 240, In Person Term Based; Maria Gini ; 4 cr.  
26408 002 LAB, 15:35-17:15 W, Keller Hall 1-262, In Person Term Based; Maria Gini ; 4 cr.

**1905 Survey of Applied Computer Science Using Computer Games**

(Student Option; )  
27065 001 LEC, 14:30-15:45 MW, Keller Hall 1-254, In Person Term Based; Gary Meyer ; 3 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)  
26299 001 LEC, 14:30-15:20 MWF, Bruininks Hall 220, In Person Term Based; James Moen ; 4 cr.  
26300 002 LAB, 08:00-09:55 T, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26301 003 LAB, 10:10-12:05 T, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26375 004 LAB, 12:20-14:15 T, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26451 005 LAB, 14:30-16:25 T, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26482 006 LAB, 16:40-18:35 T, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26634 007 LAB, 08:00-09:55 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26635 008 LAB, 10:10-12:05 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26769 011 LAB, 14:30-16:25 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26792 010 LEC, 11:15-12:05 MWF, Bruininks Hall 412, In Person Term Based; James Moen ; 4 cr.  
26793 012 LAB, 16:40-18:35 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
26971 013 LAB, 18:50-20:45 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.  
33073 009 LAB, 12:20-14:15 W, Walter Library 106, In Person Term Based; James Moen ; 4 cr.

**1933 Introduction to Algorithms and Data Structures**

(Student Option; Prereq: 1133 or instr consent)  
26376 001 LEC, 14:30-15:20 MWF, Willey Hall 125, In Person Term Based; Chris Dovolis ; 4 cr.  
26377 002 LAB, 08:00-09:55 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
26378 003 LAB, 10:10-12:05 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
26379 004 LAB, 12:20-14:15 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
26380 005 LAB, 14:30-16:25 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
26381 006 LAB, 16:40-18:35 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
26382 007 LAB, 18:50-20:45 T, Keller Hall 1-262, In Person Term Based; Chris Dovolis ; 4 cr.  
35243 009 LAB, 10:10-12:05 W, 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)  
24244 001 LEC, 12:20-13:10 MWF, Keller Hall 3-210, In Person Term Based; Carl Sturtivant ; 4 cr.  
24245 003 DIS, 13:25-14:15 T, Molecular Cellular Biol 2-120, In Person Term Based; Carl Sturtivant ; 4 cr.  
24246 002 DIS, 12:20-13:10 T, Molecular Cellular Biol 2-120, In Person Term Based; Carl Sturtivant ; 4 cr.  
24247 004 DIS, 14:30-15:20 T, Molecular Cellular Biol 2-122, In Person Term Based; Carl Sturtivant ; 4 cr.  
25935 005 DIS, 15:35-16:25 T, Molecular Cellular Biol 2-122, In Person Term Based; Carl Sturtivant ; 4 cr.  
25998 006 DIS, 16:40-17:30 T, Amundson Hall 240, In Person Term Based; Carl Sturtivant ; 4 cr.  
26276 007 DIS, 17:45-18:35 T, Amundson Hall 240, In Person Term Based; Carl Sturtivant ; 4 cr.  
26391 010 LEC, 18:30-21:00 M, Keller Hall 3-210, In Person Term Based; Kathryn Jensen ; 4 cr.  
26392 011 DIS, 16:40-17:30 Th, Keller Hall 3-115, In Person Term Based; Kathryn Jensen ; 4 cr.  
26393 012 DIS, 17:45-18:35 Th, Keller Hall 3-125, In Person Term Based; Kathryn Jensen ; 4 cr.  
26577 013 DIS, 18:50-19:40 Th, Keller Hall 3-125, In Person Term Based; Kathryn Jensen ; 4 cr.  
26636 014 DIS, 09:05-09:55 F, Bruininks Hall 512A, In Person Term Based; Kathryn Jensen ; 4 cr.  
26770 015 DIS, 10:10-11:00 F, Keller Hall 3-115, In Person Term Based; Kathryn Jensen ; 4 cr.  
33115 016 DIS, 11:15-12:05 F, Amundson Hall 116, In Person Term Based; Kathryn Jensen ; 4 cr.

35105 020 LEC, 15:35-16:25 MWF, Rapson Hall 43, In Person Term Based; Timothy Wrenn ; 4 cr.  
35106 021 DIS, 16:40-17:30 Th, Lind Hall 315, In Person Term Based; Timothy Wrenn ; 4 cr.  
35107 022 DIS, 17:45-18:35 Th, Lind Hall 315, In Person Term Based; Timothy Wrenn ; 4 cr.

## 2021 Machine Architecture and Organization

**(Student Option; Prereq: 1913 or 1933 or instr consent)**  
31165 001 LEC, 13:25-14:15 MWF, Willey Hall 125, In Person Term Based; Christopher Kauffman ; 4 cr.  
31166 010 LEC, 15:35-16:25 MWF, Amundson Hall B75, In Person Term Based; Christopher Kauffman ; 4 cr.  
31175 002 LAB, 08:00-08:50 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
31176 011 LAB, 11:15-12:05 W, Lind Hall 40, In Person Term Based; Christopher Kauffman ; 4 cr.  
32896 003 LAB, 09:05-09:55 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
32898 005 LAB, 10:10-11:00 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
32899 006 LAB, 10:10-11:00 W, Lind Hall 40, In Person Term Based; Christopher Kauffman ; 4 cr.  
32900 007 LAB, 11:15-12:05 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
32902 012 LAB, 12:20-13:10 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
32903 013 LAB, 12:20-13:10 W, Lind Hall 40, In Person Term Based; Christopher Kauffman ; 4 cr.  
32904 014 LAB, 13:25-14:15 W, Keller Hall 1-250, In Person Term Based; Christopher Kauffman ; 4 cr.  
33121 015 LAB, 13:25-14:15 W, Lind Hall 40, 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])**  
26026 001 LEC, 09:05-09:55 MWF, Tate Hall 105, In Person Term Based; Gary Meyer ; 4 cr.  
26027 002 DIS, 08:00-08:50 T, Bruininks Hall 512B, In Person Term Based; Gary Meyer ; 4 cr.  
26028 003 DIS, 09:05-09:55 T, Cooke Hall 215, In Person Term Based; Gary Meyer ; 4 cr.  
26029 004 DIS, 10:10-11:00 T, Amundson Hall 240, In Person Term Based; Gary Meyer ; 4 cr.  
26726 011 DIS, 11:15-12:05 T, Amundson Hall 240, In Person Term Based; Carl Sturivant ; 4 cr.  
26727 012 DIS, 12:20-13:10 T, Amundson Hall 240, In Person Term Based; Carl Sturivant ; 4 cr.  
26728 013 DIS, 13:25-14:15 T, Amundson Hall 240, In Person Term Based; Carl Sturivant ; 4 cr.  
26873 010 LEC, 11:15-12:05 MWF, Keller Hall 3-210, In Person Term Based; Carl Sturivant ; 4 cr.  
27132 014 DIS, 14:30-15:20 T, Peik Hall 28, In Person Term Based; Carl Sturivant ; 4 cr.

## 2041 Advanced Programming Principles

**(Student Option; Prereq: [1913 or 1933], 2011)**  
26384 001 LEC, 09:05-09:55 MWF, Bruininks Hall 230, In Person Term Based; James Moen ; 4 cr.  
26385 002 LAB, 08:00-08:50 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.  
26386 003 LAB, 09:05-09:55 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.  
26387 004 LAB, 10:10-11:00 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.  
26388 005 LAB, 11:15-12:05 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.  
26389 006 LAB, 12:20-13:10 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.  
26390 014 LAB, 17:45-18:35 T, Keller Hall 1-250, In Person Term Based; F. Favonia ; 4 cr.  
26567 015 LAB, 18:55-19:45 T, Keller Hall 1-250, In Person Term Based; F. Favonia ; 4 cr.  
26637 010 LEC, 13:25-14:15 MWF, Fraser Hall 102, In Person Term Based; F. Favonia ; 4 cr.  
26638 011 LAB, 14:30-15:20 T, Keller Hall 1-250, In Person Term Based; F. Favonia ; 4 cr.  
26639 012 LAB, 15:35-16:25 T, Keller Hall 1-250, In Person Term Based; F. Favonia ; 4 cr.  
26972 013 LAB, 16:40-17:30 T, Keller Hall 1-250, In Person Term Based; F. Favonia ; 4 cr.  
27135 007 LAB, 13:25-14:15 T, Keller Hall 1-250, In Person Term Based; James Moen ; 4 cr.

## 2980 Special Topics in Computer Science (A-F or Audit;)

34025 001 LEC, 18:00-20:00 M, Bruininks Hall 230, In Person Term Based; Maria Gini, Shana Watters ; 1-4 cr.  
35061 002 LEC, 18:00-20:00 Th, Mechanical Engineering 212, In Person Term Based; Daniel Kluver, Shana Watters ; 1-4 cr.

## 3003 Introduction to Computing in Biology

**(Student Option; Prereq: introductory biology course.)**  
33950 001 LEC, 14:30-15:45 TTh, Keller Hall 3-115, In Person Term Based; Meets With: 001 CSCI 5465; Chad Myers ; 3 cr.  
33962 002 LAB, 11:15-13:10 F, Lind Hall 40, In Person Term Based; Chad Myers ; 3 cr.  
34049 003 LAB, 13:25-15:20 F, Lind Hall 40, In Person Term Based; Chad Myers ; 3 cr.  
35096 883 LEC, 14:30-15:45 TTh, ONLINE, Completely Online; Chad Myers ; 3 cr.  
35097 884 LAB, 13:25-15:20 F, ONLINE, Completely Online; Chad Myers ; 3 cr.  
35121 887 LAB, 11:15-13:10 F, ONLINE, Completely Online; Chad Myers ; 3 cr.

## 3081W Program Design and Development (Student Option; Prereq: [2021, 2041]; CS upper div, CS grad, or dept. permission[W])

31167 001 LEC, 09:45-11:00 TTh, Tate Hall 105, In Person Term Based; Daniel Challou ; 4 cr.  
31168 010 LEC, 13:00-14:15 TTh, Bruininks Hall 412, In Person Term Based; Kevin Wendt ; 4 cr.  
31177 002 LAB, 08:00-08:50 F, Keller Hall 1-250, In Person Term Based; Daniel Challou ; 4 cr.  
31178 011 LAB, 12:20-13:10 F, Keller Hall 1-250, In Person Term Based; Kevin Wendt ; 4 cr.  
32926 003 LAB, 09:05-09:55 F, Keller Hall 1-250, In Person Term Based; Daniel Challou ; 4 cr.  
32927 004 LAB, 10:10-11:00 F, Keller Hall 1-250, In Person Term Based; Daniel Challou ; 4 cr.  
32928 005 LAB, 11:15-12:05 F, Keller Hall 1-250, In Person Term Based; Daniel Challou ; 4 cr.  
32929 012 LAB, 13:25-14:15 F, Keller Hall 1-250, In Person Term Based; Kevin Wendt ; 4 cr.  
32930 013 LAB, 14:30-15:20 F, Keller Hall 1-250, In Person Term Based; Kevin Wendt ; 4 cr.  
34971 014 LAB, 11:15-12:05 F, Keller Hall 1-262, In Person Term Based; Kevin Wendt ; 4 cr.

## 3921W Social, Legal, and Ethical Issues in Computing (Student Option; Prereq: At least soph or instr consent[CIV,W])

26383 001 LEC, 18:30-21:00 T, Bruininks Hall 131B, In Person Term Based; Phillip Barry ; 3 cr.

## 3970 Industrial Student Co-op Assignment (S-N or Audit; Prereq: CSci, in co-op program, instr consent)

24791 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)**  
24177 001 LEC, 13:00-14:15 MW, Tate Hall 101, In Person Term Based; Nick Hopper ; 4 cr.  
24178 002 DIS, 11:15-12:05 F, Amundson Hall 240, In Person Term Based; Nick Hopper ; 4 cr.  
24179 003 DIS, 12:20-13:10 F, Amundson Hall 240, In Person Term Based; Nick Hopper ; 4 cr.  
27009 004 DIS, 13:25-14:15 F, Amundson Hall 240, In Person Term Based; Nick Hopper ; 4 cr.  
33138 005 DIS, 14:30-15:20 F, Amundson Hall 162, In Person Term Based; Nick Hopper ; 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)**  
24249 001 LEC, 11:15-12:30 TTh, 10 Church Street SE 100, In Person Term Based; Kathryn Jensen ; 4 cr.  
24250 002 DIS, 08:00-08:50 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
24251 003 DIS, 09:05-09:55 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
24252 004 DIS, 10:10-11:00 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
25936 005 DIS, 11:15-12:05 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
26122 006 DIS, 12:20-13:10 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
26327 007 DIS, 13:25-14:15 F, Akerman Hall 225, In Person Term Based; Kathryn Jensen ; 4 cr.  
26394 010 LEC, 18:30-21:00 T, Keller Hall 3-210, In Person Term Based; Carl Sturivant ; 4 cr.  
26395 011 DIS, 15:35-16:25 Th, Cooke Hall 214, In Person Term Based; Carl Sturivant ; 4 cr.  
26396 012 DIS, 16:40-17:30 Th, Cooke Hall 214, In Person Term Based; Carl Sturivant ; 4 cr.  
26795 013 DIS, 17:45-18:35 Th, Keller Hall 3-111, In Person Term Based; Carl Sturivant ; 4 cr.  
26973 014 DIS, 18:50-19:40 Th, Keller Hall 3-111, In Person Term Based; Carl Sturivant ; 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, ITI upper div, Univ. honors student, or dept. permission; no cr for grads in CSci.)**  
31169 001 LEC, 13:00-14:15 TTh, Keller Hall 3-210, In Person Term Based; Abhishek Chandra ; 4 cr.  
31171 010 LEC, 16:00-17:15 TTh, Tate Hall 101, In Person Term Based; Abhishek Chandra ; 4 cr.  
31179 002 LAB, 08:00-08:50 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
31180 011 LAB, 14:30-15:20 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32931 003 LAB, 09:05-09:55 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32932 004 LAB, 10:10-11:00 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32933 005 LAB, 11:15-12:05 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32934 006 LAB, 12:20-13:10 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32935 007 LAB, 13:25-14:15 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32936 012 LAB, 15:35-16:25 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32937 013 LAB, 16:40-17:30 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.  
32938 014 LAB, 17:45-18:35 M, Keller Hall 1-250, In Person Term Based; Abhishek Chandra ; 4 cr.

## 4131 Internet Programming

**(Student Option; Prereq: 4061, 4211 recommended, cannot be taken for grad CSci cr)**  
26148 001 LEC, 09:45-11:00 MW, Blegen Hall 5, In Person Term Based; Bradley Miller ; 3 cr.

## 4203 Computer Architecture

**(Student Option; Prereq: 2021 or instr consent)**  
24883 001 LEC, 11:15-12:30 TTh, Keller Hall 3-210, 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)**  
24844 001 LEC, 14:30-15:45 MW, Rapson Hall 100, In Person Term Based; Feng Qian ; 3 cr.

## 4511W Introduction to Artificial Intelligence

**(Student Option; Prereq: 2041 or instr consent[W])**  
26414 001 LEC, 16:00-17:15 TTh, Bruininks Hall 220, In Person Term Based; James Parker ; 4 cr.  
26974 002 LEC, 09:45-11:00 TTh, Smith Hall 231, In Person Term Based; James Parker ; 4 cr.

## 4611 Programming Interactive Computer Graphics and Games

**(Student Option; Prereq: 2021 or instr consent)**  
26644 001 LEC, 11:15-12:30 TTh, Tate Hall 105, In Person Term Based; Daniel Keefe ; 3 cr.

## 4707 Practice of Database Systems

**(Student Option; Prereq: 4041 or instr consent)**  
24845 001 LEC, 13:00-14:15 TTh, Bruininks Hall 220, In Person Term Based; Shana Watters ; 3 cr.  
33934 002 LEC, 16:00-17:15 MW, Keller Hall 3-125, In Person Term Based; Travis Noll ; 3 cr.

## 4921 History of Computing

**(Student Option; HIS, TS)**  
26510 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 221, In Person Term Based; Meets With: 001 HSCI 4321; Honghong Tinn ; 3 cr.

## 4950 Senior Software Project

**(A-F only; Prereq: Upper div CSci, instr consent)**  
25901 001 LEC, 08:00-09:30 W, Akerman Hall 327, In Person Term Based; Amit Thakore, Travis Galloway, Jeff Lemmerman ; 3 cr.

## 4970W Advanced Project Laboratory

**(Student Option; Prereq: Upper div CSci, 4061, instr consent; cannot be taken for grad cr[W])**  
24592 001 IND, 00:00-00:00 , Independent/Directed Study; 3 cr.  
24944 002 IND, 00:00-00:00 , In Person Term Based; Daniel Boley ; 3 cr.  
24945 003 IND, 00:00-00:00 , In Person Term Based; 3 cr.  
24946 004 IND, 00:00-00:00 , In Person Term Based; Arindam Banerjee ; 3 cr.  
24947 005 IND, 00:00-00:00 , In Person Term Based; 3 cr.  
24948 006 IND, 00:00-00:00 , In Person Term Based; Mattia Fazzini ; 3 cr.  
24949 007 IND, 00:00-00:00 , In Person Term Based; David Du ; 3 cr.

24950 008 IND, 00:00-00:00 , , In Person Term Based; Tian He ; 3 cr.  
 24951 009 IND, 00:00-00:00 , , In Person Term Based; Maria Gini ; 3 cr.  
 24952 010 IND, 00:00-00:00 , , In Person Term Based; Mats Heimdahl ; 3 cr.  
 24953 011 IND, 00:00-00:00 , , In Person Term Based; Stephen Guy ; 3 cr.  
 24954 012 IND, 00:00-00:00 , , In Person Term Based; Victoria Interrante ; 3 cr.  
 24955 013 IND, 00:00-00:00 , , In Person Term Based; Ravi Janardan ; 3 cr.  
 24956 014 IND, 00:00-00:00 , , In Person Term Based; George Karypis ; 3 cr.  
 24957 015 IND, 00:00-00:00 , , In Person Term Based; Dan Knights ; 3 cr.  
 24958 016 IND, 00:00-00:00 , , In Person Term Based; Joseph Konstan ; 3 cr.  
 24959 017 IND, 00:00-00:00 , , In Person Term Based; Vipin Kumar ; 3 cr.  
 24960 018 IND, 00:00-00:00 , , In Person Term Based; Rui Kuang ; 3 cr.  
 24961 019 IND, 00:00-00:00 , , In Person Term Based; Gary Meyer ; 3 cr.  
 24962 020 IND, 00:00-00:00 , , In Person Term Based; Gopalan Nadathur ; 3 cr.  
 24963 021 IND, 00:00-00:00 , , In Person Term Based; Mohamed Mokbel ; 3 cr.  
 24964 022 IND, 00:00-00:00 , , In Person Term Based; Nikolaos Papanikolopoulos ; 3 cr.  
 24965 023 IND, 00:00-00:00 , , In Person Term Based; Chad Myers ; 3 cr.  
 24966 024 IND, 00:00-00:00 , , In Person Term Based; Stephen McCamant ; 3 cr.  
 24967 025 IND, 00:00-00:00 , , In Person Term Based; Stergios Roumeliotis ; 3 cr.  
 24968 026 IND, 00:00-00:00 , , In Person Term Based; Yousef Saad ; 3 cr.  
 24969 027 IND, 00:00-00:00 , , In Person Term Based; Paul Schrater ; 3 cr.  
 24970 028 IND, 00:00-00:00 , , In Person Term Based; Hyun Soo Park ; 3 cr.  
 24971 029 IND, 00:00-00:00 , , In Person Term Based; Shashi Shekhar ; 3 cr.  
 24972 030 IND, 00:00-00:00 , , In Person Term Based; Rahul Narain ; 3 cr.  
 24973 031 IND, 00:00-00:00 , , In Person Term Based; Jaideep Srivastava ; 3 cr.  
 24974 032 IND, 00:00-00:00 , , In Person Term Based; Kangjie Lu ; 3 cr.  
 24975 033 IND, 00:00-00:00 , , In Person Term Based; Junaed Sattar ; 3 cr.  
 24976 034 IND, 00:00-00:00 , , In Person Term Based; Loren Terveen ; 3 cr.  
 24977 035 IND, 00:00-00:00 , , In Person Term Based; Anand Tripathi ; 3 cr.  
 24978 036 IND, 00:00-00:00 , , In Person Term Based; Eric Van Wyk ; 3 cr.  
 24979 037 IND, 00:00-00:00 , , In Person Term Based; Volkan Isler ; 3 cr.  
 24980 038 IND, 00:00-00:00 , , In Person Term Based; Jon Weissman ; 3 cr.  
 24981 039 IND, 00:00-00:00 , , In Person Term Based; Pen-Chung Yew ; 3 cr.  
 24982 040 IND, 00:00-00:00 , , In Person Term Based; Zhi-Li Zhang ; 3 cr.  
 25398 042 IND, 00:00-00:00 , , In Person Term Based; Nick Hopper ; 3 cr.  
 25399 043 IND, 00:00-00:00 , , In Person Term Based; Antonia Zhai ; 3 cr.  
 25418 041 IND, 00:00-00:00 , , In Person Term Based; Abhishhek Chandra ; 3 cr.  
 25869 044 IND, 00:00-00:00 , , In Person Term Based; Daniel Keefe ; 3 cr.  
 26550 045 IND, 00:00-00:00 , , In Person Term Based; Lana Yarosh ; 3 cr.  
 26613 046 IND, 00:00-00:00 , , In Person Term Based; Haiyi Zhu ; 3 cr.  
 26759 047 IND, In Person Term Based; Qi Zhao ; 3 cr.

**4994H Honors Thesis**

(A-F only; Prereq: Honors student, instr consent)  
 25990 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-3 cr.

**5103 Operating Systems**

(Student Option; Prereq: 4061 or instr consent)  
 24650 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 212, In Person Term Based; Jon Weissman ; 3 cr.  
 25364 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; Jon Weissman ; 3 cr.

**5106 Programming Languages**

(Student Option; Prereq: 4011 or instr consent)  
 24651 001 LEC, 14:30-15:45 TTh, Akerman Hall 209, In Person Term Based; Gopalan Nadathur ; 3 cr.

**5115 User Interface Design, Implementation and Evaluation**

(Student Option; Prereq: 4041 or instr consent)  
 24180 001 LEC, 09:45-11:00 MW, Keller Hall 3-111, In Person Term Based; Loren Terveen ; 3 cr.  
 26648 002 LEC, 14:30-15:45 MW, Armory Building 116, In Person Term Based; Loren Terveen ; 3 cr.

**5123 Recommender Systems**

(Student Option; Prereq: Java programming and 2033 and 3081, or instructor consent.)  
 33193 001 LEC, 18:30-21:00 M, Bruininks Hall 432, In Person Term Based; Joseph Konstan ; 3 cr.

**5204 Advanced Computer Architecture**

(Student Option; Prereq: 4203 or EE 4363)  
 24906 001 LEC, 09:45-11:00 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 EE 5364; Antonia Zhai ; 3 cr.  
 25371 883 LEC, 09:45-11:00 TTh, ONLINE, Completely Online; Antonia Zhai ; 3 cr.

**5271 Introduction to Computer Security**

(Student Option; Prereq: 4061 or equiv or instr consent)  
 25397 001 LEC, 13:00-14:15 MW, Mechanical Engineering 108, In Person Term Based; Stephen McCamant ; 3 cr.  
 27106 883 LEC, 13:00-14:15 MW, ONLINE, Completely Online; Stephen McCamant ; 3 cr.

**5304 Computational Aspects of Matrix Theory**

(Student Option; Prereq: 2031 or 2033 or instr consent)  
 24175 001 LEC, 08:15-09:30 MW, Mechanical Engineering 108, In Person Term Based; Yousef Saad ; 3 cr.  
 26195 883 LEC, 08:15-09:30 MW, ONLINE, Completely Online; Yousef Saad ; 3 cr.

**5421 Advanced Algorithms and Data Structures**

(Student Option; Prereq: 4041 or instr consent)  
 24173 001 LEC, 08:15-09:30 TTh, Mechanical Engineering 212, In Person Term Based; Ravi Janardan ; 3 cr.  
 25358 883 LEC, 08:15-09:30 TTh, ONLINE, Completely Online; Ravi Janardan ; 3 cr.

**5465 Introduction to Computing for Biologists**

(Student Option; Prereq: Introductory biology course; non-CSE students only.)  
 33955 001 LEC, 14:30-15:45 TTh, Keller Hall 3-115, In Person Term Based; Meets With: 001 CSCI 3003; Chad Myers ; 3 cr.  
 34322 883 LEC, 14:30-15:45 TTh, ONLINE, Completely Online; Chad Myers ; 3 cr.

**5481 Computational Techniques for Genomics**

(Student Option; Prereq: 4041 or instr consent)  
 26801 001 LEC, 11:15-12:30 MW, Keller Hall 3-111, In Person Term Based; Dan Knights ; 3 cr.  
 26804 883 LEC, 11:15-12:30 MW, ONLINE, Completely Online; Dan Knights ; 3 cr.

**5511 Artificial Intelligence I**

(Student Option; Prereq: [2041 or instr consent], grad student)  
 24174 001 LEC, 18:30-21:00 T, Mechanical Engineering 212, In Person Term Based; Nikolaos Papanikolopoulos ; 3 cr.  
 25361 883 LEC, 18:30-21:00 T, ONLINE, Completely Online; Nikolaos Papanikolopoulos ; 3 cr.

**5512 Artificial Intelligence II**

(Student Option; Prereq: [STAT 3021, 4041] or instr consent)  
 33935 001 LEC, 18:30-21:00 Th, Keller Hall 3-115, In Person Term Based; Nicholas Johnson ; 3 cr.  
 34329 883 LEC, 18:30-21:00 Th, ONLINE, Completely Online; Nicholas Johnson ; 3 cr.

**5521 Introduction to Machine Learning**

(Student Option; Prereq: [[2031 or 2033], STAT 3021] or instr consent)  
 26430 001 LEC, 16:00-17:15 TTh, Mechanical Engineering 212, In Person Term Based; Arindam Banerjee ; 3 cr.  
 26432 883 LEC, 16:00-17:15 TTh, ONLINE, Completely Online; Arindam Banerjee ; 3 cr.  
 26951 002 LEC, 14:30-15:45 MW, Akerman Hall 319, In Person Term Based; Qi Zhao ; 3 cr.  
 33218 003 LEC, 13:00-14:15 TTh, Peik Hall 28, In Person Term Based; Rui Kuang ; 3 cr.

**5523 Introduction to Data Mining**

(Student Option; Prereq: 4041 or equiv or instr consent)

26030 001 LEC, 09:45-11:00 TTh, Keller Hall 3-230, In Person Term Based; Michael Steinbach ; 3 cr.  
 26056 883 LEC, 09:45-11:00 TTh, ONLINE, Completely Online; Michael Steinbach ; 3 cr.

**5525 Machine Learning**

(Student Option; Prereq: Grad student or instr consent)  
 26123 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 108, In Person Term Based; Steven Wu ; 3 cr.  
 26198 883 LEC, 11:15-12:30 TTh, ONLINE, Completely Online; Steven Wu ; 3 cr.

**5551 Introduction to Intelligent Robotic Systems**

(Student Option; Prereq: 2031 or 2033 or instr consent)  
 24846 001 LEC, 13:00-14:15 MW, Mechanical Engineering 212, In Person Term Based; Junaed Sattar ; 3 cr.  
 25338 883 LEC, 13:00-14:15 MW, ONLINE, Completely Online; Junaed Sattar ; 3 cr.

**5561 Computer Vision**

(Student Option; Prereq: 5511 or instr consent)  
 33219 001 LEC, 16:00-17:15 TTh, Keller Hall 3-125, In Person Term Based; Hyun Soo Park ; 3 cr.  
 33381 883 LEC, 16:00-17:15 TTh, ONLINE, 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)  
 24827 001 LEC, 16:00-17:15 MW, Mechanical Engineering 212, In Person Term Based; Victoria Interrante ; 3 cr.  
 25349 883 LEC, 16:00-17:15 MW, ONLINE, Completely Online; Victoria Interrante ; 3 cr.

**5619 Virtual Reality and 3D Interaction**

(Student Option; Prereq: 4611 or 5607 or 5115 or equiv or instr consent)  
 26802 001 LEC, 14:30-15:45 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Evan Suma Rosenberg ; 3 cr.

**5707 Principles of Database Systems**

(Student Option; Prereq: [4041 or instr consent], grad student)  
 24881 001 LEC, 14:30-15:45 TTh, Mechanical Engineering 108, In Person Term Based; Jaideep Srivastava ; 3 cr.  
 25352 883 LEC, 14:30-15:45 TTh, ONLINE, Completely Online; Jaideep Srivastava ; 3 cr.

**5715 From GPS and Virtual Globes to Spatial Computing**

(Student Option; Prereq: Familiarity with Java, C++, or Python)  
 26415 001 LEC, 11:15-12:30 TTh, Keller Hall 3-111, In Person Term Based; Shashi Shekhar ; 3 cr.  
 26743 883 LEC, 11:15-12:30 TTh, ONLINE, Completely Online; Shashi Shekhar ; 3 cr.

**5751 Big Data Engineering and Architecture**

(Student Option; Prereq: 4041, 5707, or instructor consent.)  
 35060 001 LEC, 18:30-21:00 W, Keller Hall 3-115, In Person Term Based; Donald Sawyer ; 3 cr.

**5801 Software Engineering I**

(Student Option; Prereq: 2041 or instr consent)  
 24311 001 LEC, 09:45-11:00 TTh, Bruininks Hall 412, In Person Term Based; Shana Watters ; 3 cr.

**5991 Independent Study**

(Student Option; Prereq: instr consent; may be repeated for cr)  
 24487 001 IND, 00:00-00:00 , , In Person Term Based; Joseph Nieszner ; 1-3 cr.  
 24983 002 IND, 00:00-00:00 , , In Person Term Based; Daniel Boley ; 1-3 cr.  
 24984 003 IND, 00:00-00:00 , , In Person Term Based; Carl Sturtivant ; 1-3 cr.  
 24985 004 IND, 00:00-00:00 , , In Person Term Based; Arindam Banerjee ; 1-3 cr.  
 24986 005 IND, 00:00-00:00 , , In Person Term Based; Feng Qian ; 1-3 cr.  
 24987 006 IND, 00:00-00:00 , , In Person Term Based; Chris Dovolis ; 1-3 cr.  
 24988 007 IND, 00:00-00:00 , , In Person Term Based; David Du ; 1-3 cr.  
 24989 008 IND, 00:00-00:00 , , In Person Term Based; Tian He ; 1-3 cr.  
 24990 009 IND, 00:00-00:00 , , In Person Term Based; Maria Gini ; 1-3 cr.

24991 010 IND, 00:00-00:00 , , In Person Term Based; Mats Heimdahl; 1-3 cr.	25026 006 IND, 00:00-00:00 , , In Person Term Based; Mattia Fazzini; 1-3 cr.	25064 005 FWK, 00:00-00:00 , , In Person Term Based; 1 cr.
24992 011 IND, 00:00-00:00 , , In Person Term Based; Stephen Guy; 1-3 cr.	25027 007 IND, 00:00-00:00 , , In Person Term Based; David Du; 1-3 cr.	25065 006 FWK, 00:00-00:00 , , In Person Term Based; Chris Dovolis; 1 cr.
24993 012 IND, 00:00-00:00 , , In Person Term Based; Victoria Interrante; 1-3 cr.	25028 008 IND, 00:00-00:00 , , In Person Term Based; Tian He; 1-3 cr.	25066 007 FWK, 00:00-00:00 , , In Person Term Based; David Du; 1 cr.
24994 013 IND, 00:00-00:00 , , In Person Term Based; Ravi Janardan; 1-3 cr.	25029 009 IND, 00:00-00:00 , , In Person Term Based; Maria Gini; 1-3 cr.	25067 008 FWK, 00:00-00:00 , , In Person Term Based; Tian He; 1 cr.
24995 014 IND, 00:00-00:00 , , In Person Term Based; George Karypis; 1-3 cr.	25030 010 IND, 00:00-00:00 , , In Person Term Based; Mats Heimdahl; 1-3 cr.	25068 009 FWK, 00:00-00:00 , , In Person Term Based; Maria Gini; 1 cr.
24996 015 IND, 00:00-00:00 , , In Person Term Based; Dan Knights; 1-3 cr.	25031 011 IND, 00:00-00:00 , , In Person Term Based; Stephen Guy; 1-3 cr.	25069 010 FWK, 00:00-00:00 , , In Person Term Based; Mats Heimdahl, Michael Whalen; 1 cr.
24997 016 IND, 00:00-00:00 , , In Person Term Based; Joseph Konstan; 1-3 cr.	25032 012 IND, 00:00-00:00 , , In Person Term Based; Victoria Interrante; 1-3 cr.	25070 011 FWK, 00:00-00:00 , , In Person Term Based; Stephen Guy; 1 cr.
24998 017 IND, 00:00-00:00 , , In Person Term Based; Vipin Kumar; 1-3 cr.	25033 013 IND, 00:00-00:00 , , In Person Term Based; Ravi Janardan; 1-3 cr.	25071 012 FWK, 00:00-00:00 , , In Person Term Based; Victoria Interrante; 1 cr.
24999 018 IND, 00:00-00:00 , , In Person Term Based; Rui Kuang; 1-3 cr.	25034 014 IND, 00:00-00:00 , , In Person Term Based; George Karypis; 1-3 cr.	25072 013 FWK, 00:00-00:00 , , In Person Term Based; Ravi Janardan; 1 cr.
25000 019 IND, 00:00-00:00 , , In Person Term Based; Gary Meyer; 1-3 cr.	25035 015 IND, 00:00-00:00 , , In Person Term Based; Dan Knights; 1-3 cr.	25073 014 FWK, 00:00-00:00 , , In Person Term Based; George Karypis; 1 cr.
25001 020 IND, 00:00-00:00 , , In Person Term Based; Gopalan Nadathur; 1-3 cr.	25036 016 IND, 00:00-00:00 , , In Person Term Based; Joseph Konstan; 1-3 cr.	25074 015 FWK, 00:00-00:00 , , In Person Term Based; Dan Knights; 1 cr.
25002 021 IND, 00:00-00:00 , , In Person Term Based; Mohamed Mokbel; 1-3 cr.	25037 017 IND, 00:00-00:00 , , In Person Term Based; Vipin Kumar; 1-3 cr.	25075 016 FWK, 00:00-00:00 , , In Person Term Based; Joseph Konstan; 1 cr.
25003 022 IND, 00:00-00:00 , , In Person Term Based; Nikolaos Papanikolopoulos; 1-3 cr.	25038 018 IND, 00:00-00:00 , , In Person Term Based; Rui Kuang; 1-3 cr.	25076 017 FWK, 00:00-00:00 , , In Person Term Based; Vipin Kumar; 1 cr.
25004 023 IND, 00:00-00:00 , , In Person Term Based; Chad Myers; 1-3 cr.	25039 019 IND, 00:00-00:00 , , In Person Term Based; Gary Meyer; 1-3 cr.	25077 018 FWK, 00:00-00:00 , , In Person Term Based; Rui Kuang; 1 cr.
25005 024 IND, 00:00-00:00 , , In Person Term Based; Stephen McCamant; 1-3 cr.	25040 020 IND, 00:00-00:00 , , In Person Term Based; Gopalan Nadathur; 1-3 cr.	25078 019 FWK, 00:00-00:00 , , In Person Term Based; Gary Meyer; 1 cr.
25006 025 IND, 00:00-00:00 , , In Person Term Based; Stergios Roumeliotis; 1-3 cr.	25041 021 IND, 00:00-00:00 , , In Person Term Based; Mohamed Mokbel; 1-3 cr.	25079 020 FWK, 00:00-00:00 , , In Person Term Based; Gopalan Nadathur; 1 cr.
25007 026 IND, 00:00-00:00 , , In Person Term Based; Yousef Saad; 1-3 cr.	25042 022 IND, 00:00-00:00 , , In Person Term Based; Nikolaos Papanikolopoulos; 1-3 cr.	25080 021 FWK, 00:00-00:00 , , In Person Term Based; Mohamed Mokbel; 1 cr.
25008 027 IND, 00:00-00:00 , , In Person Term Based; Paul Schrater; 1-3 cr.	25043 023 IND, 00:00-00:00 , , In Person Term Based; Chad Myers; 1-3 cr.	25081 022 FWK, 00:00-00:00 , , In Person Term Based; Nikolaos Papanikolopoulos; 1 cr.
25009 028 IND, 00:00-00:00 , , In Person Term Based; Hyun Soo Park; 1-3 cr.	25044 024 IND, 00:00-00:00 , , In Person Term Based; Stephen McCamant; 1-3 cr.	25082 023 FWK, 00:00-00:00 , , In Person Term Based; Chad Myers; 1 cr.
25010 029 IND, 00:00-00:00 , , In Person Term Based; Shashi Shekhar; 1-3 cr.	25045 025 IND, 00:00-00:00 , , In Person Term Based; Stergios Roumeliotis; 1-3 cr.	25083 024 FWK, 00:00-00:00 , , In Person Term Based; Stephen McCamant; 1 cr.
25011 030 IND, 00:00-00:00 , , In Person Term Based; F. Favonia; 1-3 cr.	25046 026 IND, 00:00-00:00 , , In Person Term Based; Yousef Saad; 1-3 cr.	25084 025 FWK, 00:00-00:00 , , In Person Term Based; Stergios Roumeliotis; 1 cr.
25012 031 IND, 00:00-00:00 , , In Person Term Based; Jaideep Srivastava; 1-3 cr.	25047 027 IND, 00:00-00:00 , , In Person Term Based; Paul Schrater; 1-3 cr.	25085 026 FWK, 00:00-00:00 , , In Person Term Based; Yousef Saad; 1 cr.
25013 032 IND, 00:00-00:00 , , In Person Term Based; Kangjie Lu; 1-3 cr.	25048 028 IND, 00:00-00:00 , , In Person Term Based; Hyun Soo Park; 1-3 cr.	25086 027 FWK, 00:00-00:00 , , In Person Term Based; Paul Schrater; 1 cr.
25014 033 IND, 00:00-00:00 , , In Person Term Based; Junaed Sattar; 1-3 cr.	25049 029 IND, 00:00-00:00 , , In Person Term Based; Shashi Shekhar; 1-3 cr.	25087 028 FWK, 00:00-00:00 , , In Person Term Based; Hyun Soo Park; 1 cr.
25015 034 IND, 00:00-00:00 , , In Person Term Based; Loren Terveen; 1-3 cr.	25050 030 IND, 00:00-00:00 , , In Person Term Based; Rahul Narain; 1-3 cr.	25088 029 FWK, 00:00-00:00 , , In Person Term Based; Shashi Shekhar; 1 cr.
25016 035 IND, 00:00-00:00 , , In Person Term Based; Anand Tripathi; 1-3 cr.	25051 031 IND, 00:00-00:00 , , In Person Term Based; Jaideep Srivastava; 1-3 cr.	25089 030 FWK, 00:00-00:00 , , In Person Term Based; Rahul Narain; 1 cr.
25017 036 IND, 00:00-00:00 , , In Person Term Based; Eric Van Wyk; 1-3 cr.	25052 032 IND, 00:00-00:00 , , In Person Term Based; Kangjie Lu; 1-3 cr.	25090 031 FWK, 00:00-00:00 , , In Person Term Based; Jaideep Srivastava; 1 cr.
25018 037 IND, 00:00-00:00 , , In Person Term Based; Volkan Isler; 1-3 cr.	25053 033 IND, 00:00-00:00 , , In Person Term Based; Junaed Sattar; 1-3 cr.	25091 032 FWK, 00:00-00:00 , , In Person Term Based; Kangjie Lu; 1 cr.
25019 038 IND, 00:00-00:00 , , In Person Term Based; Jon Weissman; 1-3 cr.	25054 034 IND, 00:00-00:00 , , In Person Term Based; Loren Terveen; 1-3 cr.	25092 033 FWK, 00:00-00:00 , , In Person Term Based; Junaed Sattar; 1 cr.
25020 039 IND, 00:00-00:00 , , In Person Term Based; Pen-Chung Yew; 1-3 cr.	25055 035 IND, 00:00-00:00 , , In Person Term Based; Anand Tripathi; 1-3 cr.	25093 034 FWK, 00:00-00:00 , , In Person Term Based; Loren Terveen; 1 cr.
25021 040 IND, 00:00-00:00 , , In Person Term Based; Zhi-Li Zhang; 1-3 cr.	25056 036 IND, 00:00-00:00 , , In Person Term Based; Eric Van Wyk; 1-3 cr.	25094 035 FWK, 00:00-00:00 , , In Person Term Based; Anand Tripathi; 1 cr.
25400 041 IND, 00:00-00:00 , , In Person Term Based; Abhishek Chandra; 1-3 cr.	25057 037 IND, 00:00-00:00 , , In Person Term Based; Volkan Isler; 1-3 cr.	25095 036 FWK, 00:00-00:00 , , In Person Term Based; Eric Van Wyk; 1 cr.
25401 042 IND, 00:00-00:00 , , In Person Term Based; Nick Hopper; 1-3 cr.	25058 038 IND, 00:00-00:00 , , In Person Term Based; Jon Weissman; 1-3 cr.	25096 037 FWK, 00:00-00:00 , , In Person Term Based; Volkan Isler; 1 cr.
25402 043 IND, 00:00-00:00 , , In Person Term Based; Antonia Zhai; 1-3 cr.	25059 039 IND, 00:00-00:00 , , In Person Term Based; Pen-Chung Yew; 1-3 cr.	25097 038 FWK, 00:00-00:00 , , In Person Term Based; Jon Weissman; 1 cr.
25870 044 IND, 00:00-00:00 , , In Person Term Based; Daniel Keefe; 1-3 cr.	25060 040 IND, 00:00-00:00 , , In Person Term Based; Zhi-Li Zhang; 1-3 cr.	25098 039 FWK, 00:00-00:00 , , In Person Term Based; Pen-Chung Yew; 1 cr.
26544 045 IND, 00:00-00:00 , , In Person Term Based; Lana Yarosh; 1-3 cr.	25403 041 IND, 00:00-00:00 , , In Person Term Based; Abhishek Chandra; 1-3 cr.	25099 040 FWK, 00:00-00:00 , , In Person Term Based; Zhi-Li Zhang; 1 cr.
26614 046 IND, 00:00-00:00 , , In Person Term Based; Haiyi Zhu; 1-3 cr.	25404 042 IND, 00:00-00:00 , , In Person Term Based; Nick Hopper; 1-3 cr.	25406 041 FWK, 00:00-00:00 , , In Person Term Based; Abhishek Chandra; 1 cr.
26760 047 IND, 00:00-00:00 , , In Person Term Based; Qi Zhao; 1-3 cr.	25405 043 IND, 00:00-00:00 , , In Person Term Based; Antonia Zhai; 1-3 cr.	25407 042 FWK, 00:00-00:00 , , In Person Term Based; Nick Hopper; 1 cr.
27145 048 IND, 00:00-00:00 , , In Person Term Based; Max Harper; 1-3 cr.	25871 044 IND, 00:00-00:00 , , In Person Term Based; Daniel Keefe; 1-3 cr.	25408 043 FWK, 00:00-00:00 , , In Person Term Based; Antonia Zhai; 1 cr.
34638 049 IND, 00:00-00:00 , , In Person Term Based; Nathan Taylor; 1-3 cr.	26545 045 IND, 00:00-00:00 , , In Person Term Based; Lana Yarosh; 1-3 cr.	25872 044 FWK, 00:00-00:00 , , In Person Term Based; Daniel Keefe; 1 cr.
35597 050 IND, 00:00-00:50 , , In Person Term Based; Mattia Fazzini; 1-3 cr.	26615 046 IND, 00:00-00:00 , , In Person Term Based; Haiyi Zhu; 1-3 cr.	26546 045 FWK, 00:00-00:00 , , In Person Term Based; Lana Yarosh; 1 cr.
	26761 047 IND, In Person Term Based; Qi Zhao; 1-3 cr.	26616 046 FWK, 00:00-00:00 , , In Person Term Based; Haiyi Zhu; 1 cr.
	35628 048 IND, 00:00-00:00 , , In Person Term Based; Ju Sun; 1-3 cr.	26762 047 FWK, In Person Term Based; Qi Zhao; 1 cr.

**5994 Directed Research**

(Student Option; Prereq: instr consent; may be repeated for cr)

24488 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.
25022 002 IND, 00:00-00:00 , , In Person Term Based; Daniel Boley; 1-3 cr.
25023 003 IND, 00:00-00:00 , , In Person Term Based; James Parker; 1-3 cr.
25024 004 IND, 00:00-00:00 , , In Person Term Based; Arindam Banerjee; 1-3 cr.
25025 005 IND, 00:00-00:00 , , In Person Term Based; Feng Qian; 1-3 cr.

**5996 Curricular Practical Training**

(S-N or Audit; Prereq: [CSci or CompE] major, instr consent)

24599 001 FWK, 00:00-00:00 , , In Person Term Based; Joseph Nieszner; 1 cr.
25061 002 FWK, 00:00-00:00 , , In Person Term Based; Daniel Boley; 1 cr.
25062 003 FWK, 00:00-00:00 , , In Person Term Based; 1 cr.
25063 004 FWK, 00:00-00:00 , , In Person Term Based; Arindam Banerjee; 1 cr.

**5997 Curricular Practical Training****Extension**

(S-N only; Prereq: [CSci or CompE] major, instr consent)

34082 001 FWK, 00:00-12:00 , , In Person Term Based; Joseph Nieszner; 1 cr.
34083 002 FWK, 00:00-12:00 , , In Person Term Based; Chris Dovolis; 1 cr.





with skills that can be immediately applied to nursing practice, advanced nursing practice, and nurse leadership. Clinical case studies and interactive discussion will be used for students to learn how to practice integratively in their current healthcare role or to develop into a new role or paradigm. Case studies will be individualized to fit the needs of all learners for applicable skill building.)

34462 004 LEC, 09:00-17:00 MT, AHC ROOM TBA, In Person Term Based; Megan Voss ; 1 cr.

### 5313 Acupressure

(Student Option; )  
34467 001 LEC, 08:00-17:00 SaSu, Mayo Bldg B393  
Meditation Rm, Primarily Online; Portia Richardson ; 1 cr.

### 5315 Traditional Tibetan Medicine: Ethics, Spirituality, and Healing

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
14050 001 LEC, Completely Online; Miriam Cameron ; 2 cr.

### 5317 Yoga: Ethics, Spirituality, and Healing

(Student Option; )  
14094 001 LEC, Completely Online; Katie Schuver ; 2 cr.

### 5341 Overview of Indigenous Hawaiian Healing

(Student Option; )  
13991 001 LEC, 09:00-17:00 Su, No Room Required, In Person Term Based; MaryJo Kreitzer ; 2 cr.

### 5343 Ayurveda Medicine: The Science of Self-healing

(Student Option; )  
13993 001 LEC, Completely Online; Asavari Manvikar ; 2 cr.

### 5421 Botanical Medicines in Integrative Healthcare

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
14051 001 LEC, Completely Online; Amy Taylor ; 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)  
14080 001 LEC, Completely Online; Andrew Litchy ; 2 cr.

### 5503 Aromatherapy Fundamentals

(Student Option; Prereq: Jr or sr or grad student)  
13992 001 LEC, 09:00-17:00 MT, No Room Required, In Person Term Based; Janet Tomaino ; 1 cr.  
14109 002 LEC, Completely Online; Janet Tomaino ; 1 cr.

### 5513 Living Well, Dying Well: Empowering Patient Communication at the End of Life

(Student Option No Audit; )  
14124 001 LEC, 17:00-20:00 T, Mayo Bldg B393 Meditation Rm, In Person Term Based; Susan O'Conner-Von, Frank Bennett ; 2 cr.

### 5535 Reiki Healing

(S-N only; Prereq: Jr or sr or grad student or instr consent)  
14116 001 LEC, 09:00-17:00 SaSu, Mayo Bldg B393  
Meditation Rm, In Person Term Based; Deborah Ringdahl ; 1 cr.  
14135 002 LEC, 09:00-17:00 SaSu, Mayo Bldg B393  
Meditation Rm, In Person Term Based; Deborah Ringdahl ; 1 cr.  
14137 004 LEC, 09:00-17:00 ThF, No Room Required, In Person Term Based; Deborah Ringdahl ; 1 cr.  
33754 005 LEC, 09:00-17:00 F, University Square ITV Room 397, 09:00-17:00 Sa, University Square ITV Room 397, In Person Term Based; Deborah Ringdahl ; 1 cr.

### 5536 Advanced Reiki Healing: Level II

(S-N only; Prereq: 5535, instr consent)  
13968 001 LEC, 09:00-17:00 MT, No Room Required, In Person Term Based; Deborah Ringdahl ; 1 cr.

### 5541 Emotional Healing and Happiness: Eastern and Western Approaches to Transforming the Mind

(Student Option; Prereq: Sr or grad student or instr consent)  
14136 001 LEC, 12:30-15:30 W, Mayo Bldg B393 Meditation Rm, 18:00-21:00 F, Mayo Bldg B393 Meditation Rm, 09:00-17:00 Sa, Mayo Bldg B393 Meditation Rm, In Person Term Based; Merrica Young ; 2 cr.

### 5631 Healing Imagery I

(Student Option; Prereq: Jr or sr or grad student)  
14110 004 LEC, 09:00-17:00 ThFsa, No Room Required, In Person Term Based; Susan Thompson ; 2 cr.

### 5642 Nature Heals: An Introduction to Nature-Based Therapeutics

(Student Option; )  
14107 001 LEC, Completely Online; Jean Larson ; 3 cr.

### 5643 Horse as Teacher: Intro to Nature-Based Therapeutics Equine-Assisted Activities & Therapies (EAAT)

(Student Option; Prereq: jr or sr or grad or instr consent)  
33027 001 LEC, 08:00-17:30 Sa, AHC ROOM TBA, Primarily Online; Jean Larson ; 3 cr.

### 5701 Fundamentals of Health Coaching I

(A-F only; Prereq: admitted to Integrative Health and Wellbeing Coaching MA program; or, Integrative Therapies and Healing Practices Certificate-Health Coaching track; or, instr consent.)  
13895 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.

### 5703 Advanced Health Coaching Practicum

(A-F only; Prereq: 5101, 5701, 5702, admitted to Integrative Health and Wellbeing Coaching MA; or, Integrative Therapies and Healing Practices Certificate-Health Coaching track.)  
13917 001 LEC, 08:00-17:00 SaSu, AHC ROOM TBA, 18:00-21:00 M, AHC ROOM TBA, 18:00-21:00 M, AHC ROOM TBA, 18:00-21:00 M, AHC ROOM TBA, 08:00-17:00 SaSu, AHC ROOM TBA, Partially Online; Theresa Nutt, Kelly O'Brien ; 3 cr.

### 5704 Business of Health Coaching

(A-F only; Prereq: 5101, 5701, 5702, admitted to Integrative Health and Wellbeing Coaching MA; or, Integrative Therapies and Healing Practices Certificate-Health Coaching track; or instr consent.)  
13918 001 LEC, 09:00-16:00 F, AHC ROOM TBA, 09:00-16:00 F, AHC ROOM TBA, Primarily Online; Theresa Nutt, Michele Rae ; 2 cr.

### 5706 Lifestyle Medicine

(Student Option; Prereq: basic course in Biology or Human Physiology.)  
14096 001 LEC, Completely Online; Andrew Litchy ; 2 cr.

### 5711 Optimal Healing Environments

(Student Option; Prereq: Jr or sr or grad student or instr consent)  
13955 001 LEC, 13:30-17:30 T, AHC ROOM TBA, Primarily Online; Theresa Zborowsky ; 3 cr.

### 5805 Wellbeing in the Workplace

(Student Option No Audit; )  
14097 001 LEC, Completely Online; Brandon Sullivan ; 3 cr.

### 5806 Wellbeing and Resiliency for Health Professionals

(Student Option; )  
14098 001 LEC, Completely Online; Kate Hathaway ; 1 cr.  
14108 004 LEC, 09:00-17:00 ThF, No Room Required, In Person Term Based; Megan Voss ; 1 cr.

### 5807 Mindfulness in the Workplace: Pause, Practice, Perform

(Student Option; )  
14112 001 LEC, Completely Online; Alex Haley ; 2 cr.

### 5905 Food Matters: Cook Like Your Life Depends On It

(Student Option; )  
14114 001 LEC, 16:00-19:00 F, No Room Required, 09:00-17:00 SaSu, No Room Required, In Person Term Based; Jennifer Breen, Kate Shafro ; 1 cr.

## Cultural Stdy/Comparative Lit (CSCL)

### 1001 Introduction to Cultural Studies:

Rhetoric, Power, Desire  
(Student Option; AH,DSJ)  
16893 001 LEC, 09:45-11:00 TTh, Nicholson Hall 155, In Person Term Based; Matthew Hadley ; 3 cr.

### 1101 Literature

(Student Option; LITR)  
17265 001 LEC, 12:45-14:00 TTh, Nicholson Hall 155, In Person Term Based; Adam Lewis ; 4 cr.

### 1201W Cinema

(Student Option; AH,WI)  
19919 001 LEC, 09:05-12:05 F, Blegen Hall 10, In Person Term Based; Meets With: 001 SCMC 1201W; Michelle Lekas ; 4 cr.  
19987 002 DIS, 09:05-09:55 T, Wulling Hall 220, In Person Term Based; Meets With: 002 SCMC 1201W; Nicholas Henderson ; 4 cr.  
19988 003 DIS, 10:10-11:00 T, Wulling Hall 220, In Person Term Based; Meets With: 003 SCMC 1201W; Nicholas Henderson ; 4 cr.  
19989 004 DIS, 09:05-09:55 W, Kolthoff Hall 140, In Person Term Based; Meets With: 004 SCMC 1201W; Drishadwati Bargi ; 4 cr.  
19990 005 DIS, 10:10-11:00 W, Kolthoff Hall 140, In Person Term Based; Meets With: 005 SCMC 1201W; Drishadwati Bargi ; 4 cr.  
20184 006 DIS, 11:15-12:05 Th, Appleby Hall 223, In Person Term Based; Meets With: 006 SCMC 1201W; Zosha Winegar-Schultz ; 4 cr.

### 1202W Media: Word, Image, Sound

(Student Option; AH,WI,TS)  
19969 001 LEC, 11:15-12:30 MW, Nicholson Hall 155, In Person Term Based; Meets With: 001 SCMC 1202W; Meredith Gill ; 4 cr.  
19970 003 DIS, 10:10-11:00 M, Smith Hall 111, In Person Term Based; Meets With: 003 SCMC 1202W; Lucas Martin ; 4 cr.  
19971 004 DIS, 09:05-09:55 F, Nicholson Hall 125, In Person Term Based; Meets With: 004 SCMC 1202W; Xiaoqi Yang ; 4 cr.  
20186 002 DIS, 09:05-09:55 M, Smith Hall 111, In Person Term Based; Meets With: 002 SCMC 1202W; Lucas Martin ; 4 cr.  
20187 005 DIS, 10:10-11:00 F, Nicholson Hall 125, In Person Term Based; Meets With: 005 SCMC 1202W; Xiaoqi Yang ; 4 cr.  
33463 006 DIS, 09:05-09:55 W, Nicholson Hall 335, In Person Term Based; Meets With: 006 SCMC 1202W; Abhay Doshi ; 4 cr.

### 1301W Reading Culture: Theory and Practice

(Student Option; AH,WI)  
19490 001 LEC, 08:15-09:30 MW, Nicholson Hall 345, In Person Term Based; Heidar Azadanloo ; 3 cr.  
19491 002 LEC, 11:15-12:05 MWF, Mechanical Engineering 221, In Person Term Based; Matthew Henseler ; 3 cr.  
19492 003 LEC, 09:45-11:00 TTh, Nicholson Hall 345, In Person Term Based; Harshit Rathi ; 3 cr.

### 1401W Reading Literature: Theory and Practice

(Student Option; LITR,WI)  
18905 001 LEC, 14:30-15:45 MW, Nicholson Hall 345, In Person Term Based; Courtney Gildersleeve ; 3 cr.  
18906 002 LEC, 10:10-11:00 MWF, Nicholson Hall 110, In Person Term Based; Alexandra Leong ; 3 cr.  
18907 003 LEC, 16:00-17:15 TTh, Folwell Hall 31, In Person Term Based; Andrea Gyenge ; 3 cr.  
19498 004 LEC, 18:20-20:50 W, Nicholson Hall 345, In Person Term Based; Eva Hudecova ; 3 cr.  
20461 006 LEC, 14:30-15:45 TTh, Lind Hall 303, In Person Term Based; Elisabeth Alderks ; 3 cr.  
21438 007 LEC, 08:15-09:30 MW, Nicholson Hall 145, In Person Term Based; Thomas David ; 3 cr.  
34856 008 LEC, Completely Online; Isaac Vayo ; 3 cr.

### 1501W Reading History: Theory and Practice

(Student Option; HIS,WI)  
17501 001 LEC, 11:15-12:30 TTh, Nicholson Hall 355, In Person Term Based; Alexis Zanghi ; 3 cr.  
18986 002 LEC, 18:20-20:50 Th, Nicholson Hall 345, In Person Term Based; Kyle Baasch ; 3 cr.  
34096 003 LEC, 18:20-20:50 W, Amundson Hall 104, In Person Term Based; Adam Lewis ; 3 cr.

### 1912 Fake News

(Student Option; )  
33847 001 DIS, 12:45-14:00 TTh, Lind Hall 215, In Person Term Based; Margaret Hennessee ; 3 cr.

### 1913W Do We Live in a Fictional World?

(Student Option; WI)  
34916 001 DIS, 14:30-15:45 MW, Appleby Hall 223, In Person Term Based; Christian Uwe ; 3 cr.

**3005 Seminar in Critical Thought**

(A-F only ; )  
20829 001 LEC, 14:00-17:00 Th, Nicholson Hall 325, In Person Term Based; Cesare Casarino ; 3 cr.

**3117 Concepts of Literary Study**

(Student Option; LITR)  
20249 001 LEC, 14:30-15:45 MW, Nicholson Hall 145, 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)  
33466 001 LEC, 11:15-12:30 MW, Akerman Hall 215, In Person Term Based; Christian Uwe ; 3 cr.

**3141 Classics of World Literature**

(A-F only; LITR)  
34600 001 LEC, 11:15-12:30 TTh, Carlson School of Mgmt L-118, In Person Term Based; Timothy Brennan ; 3 cr.

**3211 Global & Transnational Cinemas**

(Student Option; GP)  
20465 001 LEC, 14:30-17:15 Th, Nicholson Hall 125, 14:30-15:45 T, Nicholson Hall 125, In Person Term Based; Meets With: 001 SCMC 3211; Keya Ganguly ; 4 cr.

**3221 On Television**

(Student Option; CIV)  
34003 001 LEC, Completely Online; Meets With: 001 SCMC 3221; Meredith Gill ; 3 cr.

**3231 Comedy: Media, Politics & Society**

(Student Option; AH)  
33470 001 LEC, 12:45-14:00 MW, Nicholson Hall 35, In Person Term Based; Eva Hudecova ; 3 cr.

**3251 Popular Music and Mass Culture**

(Student Option; AH)  
20611 001 LEC, 13:00-14:15 MW, Nicholson Hall 110, In Person Term Based; Matthew Henseler ; 3 cr.

**3310W The Rhetoric of Everyday Life**

(Student Option; CIV,WI)  
19176 001 LEC, 14:30-15:45 TTh, Civil Engineering Bldg 212, In Person Term Based; Brad Stiffler ; 3 cr.

**3323 Science and Culture**

(Student Option; AH)  
20831 001 LEC, 14:30-15:45 TTh, Nicholson Hall 110, In Person Term Based; Matthew Hadley ; 3 cr.

**3334 Monsters, Robots, Cyborgs**

(Student Option; LITR)  
17868 001 LEC, 13:00-14:15 MW, Nicholson Hall 155, In Person Term Based; Matthew Hadley ; 3 cr.

**3335 Aliens: Science Fiction to Social Theory**

(Student Option; DSJ)  
19501 001 LEC, 18:20-20:50 Th, Nicholson Hall 355, In Person Term Based; Brad Stiffler ; 3 cr.

**3350W Sexuality and Culture**

(Student Option; DSJ,WI)  
33845 001 LEC, 13:00-14:15 MW, Burton Hall 120, In Person Term Based; Michelle Lekas ; 3 cr.

**3351W The Body and the Politics of Representation**

(Student Option; HIS,WI)  
16894 001 LEC, 09:45-11:00 MW, Nicholson Hall 125, In Person Term Based; Eva Hudecova ; 3 cr.

**3405 Marx for Today**

(Student Option; AH,DSJ)  
33473 001 LEC, 16:00-17:15 TTh, Bruininks Hall 117, In Person Term Based; Sumanth Gopinath ; 3 cr.

**3412W Psychoanalysis**

(Student Option; WI)  
33471 001 LEC, 13:00-15:30 W, Appleby Hall 302, In Person Term Based; Andrea Gyenge ; 3 cr.

**3425W Theories of Culture**

(Student Option; AH,WI)  
33495 001 LEC, 13:00-14:15 MW, Nicholson Hall 120, In Person Term Based; Meredith Gill ; 3 cr.

**3896 Internship for Academic Credit**

(Student Option; )

33941 001 FWK, In Person Term Based; Graeme Stout ; 1-4 cr.

34320 002 FWK, In Person Term Based; Graeme Stout ; 1-4 cr.

**3993 Directed Study**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
17921 001 IND, 00:00-00:00 , , In Person Term Based; Graeme Stout ; 1-3 cr.  
19887 010 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.  
20788 012 IND, In Person Term Based; Michelle Lekas ; 1-3 cr.  
20789 013 IND, In Person Term Based; Meredith Gill ; 1-3 cr.  
21177 014 IND, In Person Term Based; Eva Hudecova ; 1-3 cr.  
21203 015 IND, In Person Term Based; Eva Hudecova ; 1-3 cr.

**4993 Directed Study**

(A-F or Audit; )  
18468 002 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.  
19323 001 IND, 00:00-00:00 , , In Person Term Based; Eva Hudecova ; 1-3 cr.  
19797 003 IND, 00:00-00:00 , , In Person Term Based; Michelle Lekas ; 1-3 cr.  
20394 005 IND, In Person Term Based; 1-3 cr.  
20397 007 IND, In Person Term Based; Michelle Lekas ; 1-3 cr.

**5411 Avant-Garde Cinema**

(A-F or Audit; )  
33474 001 DIS, 18:30-20:30 W, Nicholson Hall 145, 18:20-20:50 Th, Nicholson Hall 145, In Person Term Based; Emily Capper ; 4 cr.

**5910 Topics in Cultural Studies and**

**Comparative Literature**

(Student Option; )  
34282 001 DIS, 11:15-12:30 TTh, Nicholson Hall 325, In Person Term Based; Keya Ganguly ; 3 cr.

**5944H Honors Thesis**

(A-F only; Prereq: Candidate for honors in CSCL, consent of CSCL honors adviser)  
17972 001 IND, 00:00-00:00 , , In Person Term Based; Margaret Hennefeld ; 3 cr.  
20396 004 IND, In Person Term Based; Erin Trapp ; 3 cr.  
20786 005 IND, In Person Term Based; Michael Gallope ; 3 cr.

**5993 Directed Study**

(Student Option; Prereq-instr consent, dept consent, college consent.)  
17277 001 IND, 00:00-00:00 , , In Person Term Based; Alice Lovejoy ; 1-3 cr.  
20085 014 IND, 00:00-00:00 , , In Person Term Based; James Snapko ; 1-3 cr.  
21490 015 IND, In Person Term Based; Matthew Hadley ; 1-3 cr.  
35623 016 IND, In Person Term Based; Laurie Ouellette ; 1-3 cr.

**Curriculum and Instruction (CI)****1001 Introduction to the Elementary School**

(A-F or Audit; )  
15387 001 LEC, 09:45-11:00 TTh, Peik Hall 215, In Person Term Based; Qui Alexander ; 3 cr.  
15426 002 LEC, 11:15-12:30 TTh, Peik Hall 325, In Person Term Based; Asha Omar ; 3 cr.  
15775 003 LEC, 12:45-14:00 TTh, Peik Hall 325, In Person Term Based; Younkyoung Hong ; 3 cr.

**1032 Creating Identities: Learning In and**

**Through the Arts**

(Student Option; AH)  
16442 001 LAB, 13:25-15:20 MW, Appleby Hall 201, In Person Term Based; Rae Charles Harge ; 4 cr.  
16444 002 LAB, 11:15-13:10 WF, Peik Hall 40, In Person Term Based; Betsy Maloney Leaf ; 4 cr.  
16445 003 LAB, 11:15-13:10 TTh, Appleby Hall 201, In Person Term Based; Danielle Christensen ; 4 cr.  
16446 004 LAB, 13:25-15:20 TTh, Appleby Hall 201, In Person Term Based; Linda Buturian ; 4 cr.  
34530 005 LAB, 09:05-11:00 MW, Appleby Hall 201, In Person Term Based; Amanda Brown ; 4 cr.

**1121 Educational Movements Past and**

**Present: Multicultural Perspectives**

(Student Option; DSJ,HIS)

16390 002 LEC, 12:20-14:15 TTh, Bruininks Hall 420B, In Person Term Based; Robert Poch ; 4 cr.  
16704 001 LEC, 13:25-15:20 MW, Bruininks Hall 512B, In Person Term Based; Micah Laz Davis ; 4 cr.  
35227 003 LEC, 08:00-09:55 MW, Bruininks Hall 420B, In Person Term Based; Robert Poch ; 4 cr.

**1124 Global Stories of Education:**

**Literature for Young Adults**

(Student Option; GP,LITR)  
16449 001 DIS, 09:45-11:00 MW, Nicholson Hall 315, In Person Term Based; Abby Boehm-Turner ; 3 cr.  
16450 002 DIS, 13:00-14:15 MW, Appleby Hall 226, In Person Term Based; Elise Toedt ; 3 cr.  
16451 003 DIS, 14:30-15:45 MW, Appleby Hall 3, In Person Term Based; Abby Boehm-Turner ; 3 cr.  
16488 004 DIS, 09:45-11:00 TTh, Appleby Hall 204, In Person Term Based; Denise Huynh ; 3 cr.  
16599 005 DIS, 11:15-12:30 TTh, Appleby Hall 226, In Person Term Based; Linda Buturian ; 3 cr.  
16631 006 DIS, 13:00-14:15 TTh, Appleby Hall 3, In Person Term Based; Elise Toedt ; 3 cr.

**1512 Nature in the City**

(Student Option; BIOL,ENV)  
16499 001 LAB, 12:20-16:10 MW, Peik Hall 365, In Person Term Based; Jay Hatch ; 4 cr.  
16500 002 LAB, 12:20-16:10 TTh, Peik Hall 365, In Person Term Based; Jay Hatch ; 4 cr.

**1563 Physics by Inquiry**

(Student Option; PHYS)  
16494 001 LAB, 14:30-16:25 MW, Bruininks Hall 131B, In Person Term Based; Marta Stoeckel-Rogers ; 4 cr.  
16632 002 LAB, 16:40-20:15 M, Bruininks Hall 131B, In Person Term Based; Travis Churchward ; 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))  
16405 001 LEC, 11:15-12:30 MW, Nicholson Hall 110, In Person Term Based; Bismark Akoto ; 3 cr.  
16408 002 LEC, 13:00-14:15 MW, Appleby Hall 204, In Person Term Based; Bismark Akoto ; 3 cr.  
16409 003 LEC, 11:15-12:30 TTh, Peik Hall 215, In Person Term Based; Dexter Lim ; 3 cr.

**1826 Social Change, Social Justice: An**

**Introduction to Applied Calculus**

(Student Option; Prerequisites: four years high school math OR grade of at least B+ in CI 0832 or PSTL 0732 OR placement test score OR instructor consent. MATH)  
16639 001 LEC, 09:45-11:00 MW, Peik Hall 165, In Person Term Based; Susan Staats ; 3 cr.  
33055 002 LEC, 14:30-15:45 MW, Appleby Hall 204, In Person Term Based; Susan Staats ; 3 cr.

**1871 Computer Literacy and Problem**

**Solving**

(Student Option; )  
16411 001 LAB, 13:25-15:20 MW, Appleby Hall 128, In Person Term Based; Meets With: 001 CI 832; Douglas Robertson ; 4 cr.  
16412 002 LAB, 09:05-11:00 TTh, Appleby Hall 128, In Person Term Based; Meets With: 002 CI 832; Douglas Robertson ; 4 cr.  
16413 003 LAB, 13:25-15:20 TTh, Appleby Hall 128, In Person Term Based; Meets With: 003 CI 832; Douglas Robertson ; 4 cr.  
16443 004 LAB, Completely Online; Douglas Robertson ; 4 cr.

**1908W Children and Other Talking**

**Animals: Animal Tales in (Mostly)**

**Children's Literature**

(Student Option; CIV,WI)  
33530 001 LEC, 09:45-11:00 TTh, Peik Hall 365, In Person Term Based; Marek Oziewicz ; 3 cr.

**2311W Introduction to Technology and**

**Ethics in Society**

(Student Option; CIV,WI)  
15947 001 LEC, Completely Online; Basel Hussein ; 3 cr.  
15948 002 LEC, Completely Online; Basel Hussein ; 3 cr.

**2312 Sex, Drugs, and the Internet:**

**Educational Perspectives**

(A-F only; )  
15952 001 DIS, Completely Online; Fan Zheng ; 3 cr.  
15953 002 DIS, Completely Online; Matti Koivula ; 3 cr.

**3001 Engaged Arts Learning in Elementary Classrooms**

(A-F or Audit; )  
15929 001 LAB, 09:05-11:00 T, Appleby Hall 201, In Person Term Based; Samuel Peck ; 2 cr.  
15930 002 LAB, 09:05-11:00 F, Peik Hall 40, In Person Term Based; Heather Delisle ; 2 cr.

**3101 Issues in Urban Education**  
(Student Option; )

16501 001 LEC, 12:20-14:15 WF, Peik Hall 375, In Person Term Based; Abigail Rombalski ; 3 cr.

**3211 Introduction to Elementary Teaching**  
(A-F only; Prereq: [Elementary ed or early childhood ed foundations major], concurrent practicum experience)

15931 001 DIS, 08:30-11:00 T, Peik Hall 48, In Person Term Based; Cynthia Zwicky ; 3 cr.  
15932 002 DIS, 08:30-11:00 T, Peik Hall 325, In Person Term Based; Ryan Kiesel ; 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)  
15898 001 FWK, 08:00-12:00 WF, No Room Required, 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)  
15934 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; )  
16758 001 DIS, Completely Online; Angelica Pazurek ; 3 cr.  
33132 002 DIS, Completely Online; Angelica Pazurek ; 3 cr.

**3401W Diversity in Children's Literature**  
(A-F or Audit; WI)

15849 001 LEC, 12:20-14:50 M, Peik Hall 48, In Person Term Based; Denise Huynh ; 3 cr.  
15850 002 LEC, 12:20-14:50 W, Peik Hall 48, In Person Term Based; Kristin Bauck ; 3 cr.  
15851 003 LEC, 15:35-18:15 W, Peik Hall 385, In Person Term Based; Nicholas Kleese ; 3 cr.

**3610 Linguistics for Teachers**  
(A-F only; SOCS)

15988 001 LEC, 09:45-11:00 MW, Peik Hall 40, In Person Term Based; James McKenzie ; 3 cr.  
15989 002 LEC, 14:30-15:45 MW, Appleby Hall 11, In Person Term Based; Amanda Swearingen ; 3 cr.  
16244 003 LEC, 09:45-11:00 TTh, Peik Hall 335, In Person Term Based; Margaret Buchanan ; 3 cr.  
16602 004 LEC, 14:30-15:45 TTh, Peik Hall 335, In Person Term Based; Margaret Buchanan ; 3 cr.

**3611W Basics in Teaching English as a Second Language**

(Student Option No Audit; Prereq: Have studied another language.WI)  
16176 001 LEC, 14:30-15:45 MW, Appleby Hall 102, Partially Online; Sean Salek ; 4 cr.  
16177 002 LEC, 10:10-12:05 TTh, Peik Hall 46, In Person Term Based; Mabindra Regmi ; 4 cr.  
16279 003 LEC, 14:30-16:25 TTh, Peik Hall 325, In Person Term Based; Amanda Swearingen ; 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)  
16178 001 LEC, 10:10-12:05 MW, Peik Hall 335, In Person Term Based; David Atterberry ; 4 cr.  
16243 002 LEC, 13:25-15:20 TTh, Peik Hall 355, In Person Term Based; Suzanne McCurdy ; 4 cr.

**3613 Intercultural Communication and English Language Teaching**

(Student Option No Audit; )  
16179 001 LEC, 13:00-14:15 MW, Wulling Hall 220, In Person Term Based; Anuradha Gopalakrishnan ; 3 cr.  
16537 002 LEC, 11:15-12:30 TTh, Peik Hall 225, In Person Term Based; Saem Heo ; 3 cr.

**3901 Exploring the Teaching Profession I**  
(A-F only; Prereq: DirecTrack to Teaching program or department consent)

15263 001 LEC, 17:00-20:00 T, Peik Hall 28, In Person Term Based; Jehanne Beaton ; 2 cr.  
16310 002 LEC, 17:00-20:00 T, Peik Hall 28, In Person Term Based; Jehanne Beaton ; 2 cr.

**3993 Directed Study: Curriculum and Instruction**

(Student Option No Audit; Prereq instr consent.)  
33230 001 IND, In Person Term Based; 1-6 cr.  
34795 002 IND, In Person Term Based; 1-6 cr.

**4121 Culture Power and Education**  
(A-F only; )

16343 001 DIS, 08:30-11:00 M, Peik Hall 355, In Person Term Based; Nuhu Sims ; 3 cr.  
16581 002 DIS, 08:30-11:00 Th, Peik Hall 325, In Person Term Based; Ariana Yang ; 3 cr.  
33232 003 DIS, 08:30-11:00 Th, Peik Hall 48, In Person Term Based; Diana Chandara ; 3 cr.

**4122 Social Class Education and Pedagogy**  
(A-F only; )

16281 001 DIS, 16:40-19:20 T, Peik Hall 355, In Person Term Based; Meets With: 001 CI 5122; Colleen Clements ; 3 cr.  
16582 002 DIS, 09:25-12:05 F, Peik Hall 355, In Person Term Based; Colleen Clements ; 3 cr.

**4311W Technology and Ethics in Society**  
(Student Option; CIV,WI)

15949 001 LEC, Completely Online; Jolie Kennedy ; 3 cr.  
15950 002 LEC, Completely Online; Rukmini Manasa Avadhanam ; 3 cr.  
16633 003 LEC, Completely Online; Robert Kremel ; 3 cr.  
16744 004 LEC, Completely Online; Robert Kremel ; 3 cr.

**4312 Sex, Drugs, and the Internet: Educational Perspectives**

(A-F only; )  
15951 001 DIS, Completely Online; Matti Koivula ; 3 cr.

**5065 Improving Arts Programs in the Schools**

(A-F or Audit; )  
16031 001 LEC, 16:40-19:20 Th, Peik Hall 40, In Person Term Based; James Bequette ; 3 cr.

**5069 Curriculum Innovations in Arts Education**

(A-F or Audit; )  
16032 001 LEC, 16:40-19:20 M, Peik Hall 40, In Person Term Based; Betsy Maloney Leaf ; 3 cr.

**5075 The Social, Historical and Cultural Foundations of Arts Education**

(A-F or Audit; )  
16247 001 LEC, 16:40-19:20 T, Peik Hall 40, In Person Term Based; Katherine Wiley ; 3 cr.

**5096 Arts Education Practicum**  
(A-F or Audit; )

16033 001 LEC, 19:30-20:20 MTh, Peik Hall 40, Partially Online; James Bequette, Betsy Maloney Leaf ; 1-6 cr.

**5150 Curriculum Topics**

(S-N only; )  
34396 001 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Nimo Abdi ; 1-4 cr.  
34477 002 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Nimo Abdi ; 1-4 cr.  
34478 003 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Stefanie Marshall ; 1-4 cr.  
34479 004 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Stefanie Marshall ; 1-4 cr.  
34480 005 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Nimo Abdi ; 1-4 cr.  
34481 006 DIS, 16:40-19:40 W, Fraser Hall 101, 16:40-19:40 W, Fraser Hall 101, In Person Term Based; Stefanie Marshall ; 1-4 cr.

**5155 Contemporary Approaches to Curriculum: Instruction and Assessment**

(A-F or Audit; Prereq: Grad students only)  
34490 001 LEC, 16:40-19:20 Th, Peik Hall 365, In Person Term Based; Emina Buzinkic ; 3 cr.

**5156 Popular Culture, Teaching, and Learning**

(A-F only; Prereq: Grad student or sr in a program that values teaching as a component of the discipline)  
16333 001 DIS, Completely Online; Thom Swiss ; 3 cr.

**5163 Child and Adolescent Development for Teaching and Learning I**

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
16143 001 DIS, 08:45-11:25 W, Peik Hall 355, In Person Term Based; Cristina Silva Gleason ; 1 cr.

**5164 Child and Adolescent Development for Teaching and Learning II**  
(A-F only; Prereq: Enrolled in teacher initial licensure program)

16057 001 DIS, 12:20-15:00 M, Elliott Hall N119, 12:20-15:00 M, Elliott Hall N119, 12:20-15:00 M, Elliott Hall N119, Partially Online; Cristina Silva Gleason, Vichet Chhuon ; 2 cr.  
16058 002 DIS, 16:40-19:20 M, Peik Hall 355, 16:40-19:20 M, Peik Hall 355, 16:40-19:20 M, Peik Hall 355, Partially Online; Vichet Chhuon ; 2 cr.  
16059 003 DIS, 16:40-19:20 T, Peik Hall 165, 16:40-19:20 T, Peik Hall 165, 16:40-19:20 T, Peik Hall 165, Partially Online; Vichet Chhuon ; 2 cr.  
16252 004 DIS, 08:45-11:25 W, Peik Hall 355, In Person Term Based; Cristina Silva Gleason ; 2 cr.

**5186 School-Related Projects**

(A-F or Audit; Prereq: MED student)  
15754 001 IND, In Person Term Based; James Bequette ; 1-4 cr.  
15755 003 IND, In Person Term Based; 1-4 cr.  
15756 004 IND, In Person Term Based; 1-4 cr.  
15760 005 IND, In Person Term Based; 1-4 cr.  
15820 002 IND, In Person Term Based; 1-4 cr.  
16128 006 IND, In Person Term Based; Martha Bigelow, Mary Hermes, Kendall King, Blanca Caldas Chumbes, Samuel David ; 1-4 cr.  
16129 007 IND, In Person Term Based; J.B. Mayo ; 1-4 cr.  
16130 008 IND, In Person Term Based; Lesa Clarkson, Terrence Wyberg, Erin Baldinger ; 1-4 cr.  
33111 200 IND, In Person Term Based; Jennifer Clifden, Nuhu Sims ; 1-4 cr.

**5190 Directed Individual Study in Curriculum and Instruction**

(Student Option; Prereq: Grad student, instr consent)  
16097 001 IND, In Person Term Based; James Bequette, Betsy Maloney Leaf ; 1-6 cr.  
16109 002 IND, In Person Term Based; 1-6 cr.  
16111 003 IND, In Person Term Based; 1-6 cr.  
16112 004 IND, In Person Term Based; 1-6 cr.  
16131 005 IND, In Person Term Based; 1-6 cr.  
16132 006 IND, In Person Term Based; 1-6 cr.  
16133 007 IND, In Person Term Based; J.B. Mayo ; 1-6 cr.  
16134 008 IND, In Person Term Based; 1-6 cr.

**5211 Elementary Education Content and Pedagogy I**

(A-F only; )  
16706 200 DIS, In Person Term Based; Jeff Henning-Smith, Merry Meltz Holloway, Danielle Beck ; 4 cr.

**5214 Elementary Education Content and Pedagogy IV**

(A-F only; )  
33343 200 DIS, In Person Term Based; James Schrankler, Merry Meltz Holloway, Danielle Beck ; 3 cr.

**5283 Practicum: Applying Instructional Methods in the Elementary Classroom**

(S-N only; Prereq: M.Ed./Elementary education initial licensure student, enrolled in elementary education methods course)  
32905 001 FWK, In Person Term Based; Jana LoBello ; 3 cr.  
32906 002 FWK, In Person Term Based; Jana LoBello ; 3 cr.  
32907 003 FWK, In Person Term Based; Jana LoBello ; 3 cr.  
32908 004 FWK, In Person Term Based; Jana LoBello ; 3 cr.

**5301 Foundations of Computer Applications for Business and Education**

(A-F only; )  
15954 001 DIS, Completely Online; Jolie Kennedy ; 3 cr.  
15955 002 DIS, Completely Online; Fan Zheng ; 3 cr.  
15981 003 DIS, Completely Online; Hong Shui ; 3 cr.  
16171 004 DIS, Completely Online; Hong Shui ; 3 cr.  
16354 005 DIS, Completely Online; Chen Chen ; 3 cr.  
16360 006 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)**

15290 006 LAB, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, Partially Online; Robert Olson, ; 1.5 cr.

15776 002 LAB, 16:40-19:40 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, Partially Online; Angela Kalthoff, ; 1.5 cr.

16241 003 LAB, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R260, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R260, Partially Online; Kelly Swanson, ; 1.5 cr.

16280 004 LAB, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, Partially Online; Ryan Monson, ; 1.5 cr.

16326 005 LAB, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, 16:40-19:20 T, Lrng & Environmental Sci R250, Primarily Online; Dave Lostetter ; 1.5 cr.

33340 007 LAB, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, 16:40-19:20 W, Lrng & Environmental Sci R260, In Person Term Based; Glen Irvin, ; 1.5 cr.

**5323 Online Learning Communities**  
(A-F or Audit; )  
16641 001 LEC, Completely Online; Jolie Kennedy ; 3 cr.

**5336 Planning for Multimedia Design and Development**  
(A-F or Audit; )  
16642 001 LEC, Completely Online; Matti Koivula ; 3 cr.

**5351 Technology Tools for Educators**  
(A-F or Audit; )  
34513 001 LEC, Completely Online; Sarah Barksdale ; 3 cr.

**5371 Learning Analytics: Theory and Practice**  
(Student Option; )  
16707 001 DIS, Completely Online; Bodong Chen ; 3 cr.

**5404 Multicultural Literature for Children and Adolescents**  
(A-F or Audit; )  
33109 001 DIS, Completely Online; Marek Oziewicz ; 3 cr.

**5413 Foundations of Reading**  
(A-F or Audit; Prereq: CI 3610 and concurrent registration with CI 5414)  
15936 001 LEC, 08:00-12:30 MW, Peik Hall 46, In Person Term Based; Lindsay Robinson ; 3 cr.  
15937 002 LEC, 08:00-12:30 TTh, Peik Hall 355, In Person Term Based; Eva Boehm ; 3 cr.  
16344 003 LEC, 08:00-12:30 TTh, Peik Hall 40, 08:00-12:30 TTh, Peik Hall 40, 08:00-12:30 TTh, Peik Hall 40, In Person Term Based; Elizabeth Fogarty ; 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)  
15935 001 FWK, In Person Term Based; Casey Norton ; 2 cr.  
15935 001 FWK, In Person Term Based; Casey Norton ; 2 cr.  
33265 002 FWK, In Person Term Based; Eva Boehm ; 2 cr.

33266 003 FWK, In Person Term Based; Elizabeth Fogarty ; 2 cr.

**5425 Reading Instruction in the Elementary Grades**

(A-F only; Prereq: [Elementary or early childhood] licensure student)  
15909 001 DIS, In Person Term Based; Anna Jennerjohn ; 3 cr.  
15910 002 DIS, In Person Term Based; Mekea Duffy ; 3 cr.  
15968 003 DIS, In Person Term Based; Elizabeth Fogarty ; 3 cr.  
16472 004 DIS, In Person Term Based; Catherine Cavanaugh ; 3 cr.

**5426 Language Arts Instruction in the Elementary Grades**

(A-F only; Prereq: Elementary or early childhood licensure student)  
15911 001 DIS, In Person Term Based; Debra Peterson ; 3 cr.  
15912 002 DIS, In Person Term Based; Catherine Cavanaugh ; 3 cr.  
15969 003 DIS, In Person Term Based; Abbey Payeur ; 3 cr.  
16473 004 DIS, In Person Term Based; Catherine Cavanaugh ; 3 cr.

**5432 Instructional Leadership in Reading in Kindergarten and the Elementary Grades**

(A-F or Audit; Prereq: 5431)  
33236 001 LEC, Completely Online; Lori Helman ; 3 cr.

**5441 Teaching Literature in the Secondary School**

(A-F or Audit; )  
33242 001 LEC, 09:05-11:45 T, Peik Hall 48, 09:05-11:45 T, Peik Hall 385, 09:05-11:45 M, Peik Hall 48, In Person Term Based; Justin Grinage, ; 2-3 cr.

**5451 Teaching Reading in Middle and Secondary Grades**

(A-F or Audit; )  
16166 001 LEC, 09:05-11:45 W, Peik Hall 325, In Person Term Based; Anna Taylor ; 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])  
15782 001 LEC, Completely Online; Yongjun Lee, Sean Golden ; 1-2 cr.

**5464 The Politics of Literacy and Race in Schools**

(A-F or Audit; )  
33279 001 DIS, 16:40-19:20 M, Peik Hall 365, In Person Term Based; Timothy Lensmire ; 3 cr.

**5471 Clinical Experience in Teaching Secondary English**

(A-F only; Prereq: Must register same semester as CI 5441 and CI 5451.)  
16374 001 FWK, 08:00-16:00 ThF, No Room Required, In Person Term Based; Anna Schick ; 3 cr.

**5472 Teaching Critical Media Analysis in Schools**

(A-F or Audit; )  
16491 001 LEC, Completely Online; Thom Swiss ; 3 cr.

**5502 Science Instruction in the Elementary Grades**

(A-F or Audit; Prereq: Early Childhood or Elementary Education ILP)  
15992 001 LEC, In Person Term Based; Elizabeth Stretch ; 3 cr.  
15993 002 LEC, In Person Term Based; Barbara Billington ; 3 cr.  
15994 003 LEC, In Person Term Based; Angelina Constantine ; 3 cr.  
16474 004 LEC, In Person Term Based; Elizabeth Stretch ; 3 cr.

**5531 Secondary Science Methods II**

(A-F or Audit; Prereq: Initial licensure student in science ed and CI 5530 Secondary Science Methods I)  
15369 001 DIS, 14:30-16:30 TTh, 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)  
16646 001 LEC, Completely Online; Bhaskar Upadhyay ; 3 cr.

**5541 Teaching History and Nature of Science**

(A-F or Audit; Prereq: MEd ILP or professional studies student in science education or instr consent)  
16138 001 LEC, 16:40-19:20 M, Lrng & Environmental Sci 139B, In Person Term Based; Stefanie Marshall ; 3 cr.

**5551 Reflecting on Science Classroom Practices I**

(A-F only; )  
16358 001 DIS, Completely Online; Barbara Billington ; 1.5 cr.

**5596 Clinical Experience in Middle School Science**

(A-F or Audit; )  
15370 001 LEC, In Person Term Based; Barbara Billington ; 4 cr.

**5611 Principles of Linguistics**

(A-F only; )  
33342 200 DIS, In Person Term Based; Jennifer Clifden ; 2 cr.

**5617 Academic Language and English Learners I**

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
16328 001 FWK, 13:00-16:00 M, Lrng & Environmental Sci 139A, 13:00-16:00 Th, Lrng & Environmental Sci 139A, Partially Online; Jane Riordan ; 1 cr.  
16329 002 FWK, 13:00-16:00 M, Lrng & Environmental Sci 139B, 13:00-16:00 Th, Lrng & Environmental Sci 139B, Partially Online; Jane Riordan ; 1 cr.  
16330 003 FWK, 13:00-16:00 Th, Room TBA, 09:00-12:00 W, Room TBA, Partially Online; Mary Bertrand ; 1 cr.  
16331 004 FWK, 13:00-16:00 Th, Room TBA, 13:00-16:00 W, Room TBA, Partially Online; Mary Bertrand ; 1 cr.  
16332 005 FWK, 13:00-16:00 Th, Room TBA, 13:00-16:00 W, Room TBA, Partially Online; Karla Stone ; 1 cr.

**5622 Exploring Learner Language: Puzzles and Tools for the Classroom**

(Student Option No Audit; )  
33341 200 DIS, 18:30-20:30 T, Wulling Hall 240, In Person Term Based; Jana Hilleren Bassett ; 2 cr.

**5628 Analyzing Learner Language in Second Language Acquisition**

(Student Option No Audit; Prereq: 5646, 5649 [or other course on the grammar of a language])  
33302 001 LEC, 16:40-19:20 Th, Peik Hall 385, In Person Term Based; Martha Bigelow ; 3 cr.

**5631 Second Language Curriculum Development and Assessment**

(A-F or Audit; Prereq: SLC initial licensure only)  
15350 001 LEC, 13:25-15:25 Th, Peik Hall 48, In Person Term Based; Karla Stone ; 1-3 cr.

**5632 Literacy and Language Development in Second Language Classrooms**

(A-F or Audit; Prereq: SLC initial licensure only)  
15351 001 LEC, 13:25-16:05 T, Peik Hall 48, In Person Term Based; Samuel David ; 3 cr.

**5642 Assessing English Learners**

(A-F or Audit; )  
33301 001 LEC, 16:40-19:20 T, Peik Hall 48, In Person Term Based; Leah Shepard-Carey ; 3 cr.

**5645 Methods for Teaching English Learners**

(A-F only; Prereq: Early Childhood or Elementary Education ILP or Special Education Major or Special Education M.Ed./M.A candidates)  
16027 001 LEC, In Person Term Based; Blanca Caldas Chumbes ; 3 cr.  
16028 002 LEC, In Person Term Based; Karla Stone ; 3 cr.  
16029 003 LEC, In Person Term Based; Leah Shepard-Carey ; 3 cr.  
16457 004 LEC, In Person Term Based; Leah Shepard-Carey ; 3 cr.  
33303 005 LEC, 16:40-19:30 Th, Peik Hall 355, In Person Term Based; Samuel David ; 3 cr.

**5646 English Grammar for ESL Teachers**

(Student Option; Prereq: LING 5001 or instr consent)  
15492 001 LEC, 13:25-16:05 M, Peik Hall 46, In Person  
Term Based; Kendall King ; 3 cr.

**5648 Advanced Practices in Teaching Academic Language**

(A-F only; Prereq: Grad student, instr consent)  
33281 004 DIS, Completely Online; Cory Mathieu ; 3 cr.

**5651 Foundations of Second Languages and Cultures Education**

(A-F or Audit; )  
15517 001 LEC, 16:40-19:20 M, Peik Hall 325, In Person  
Term Based; Martha Bigelow ; 3 cr.

**5653 Methods in Teaching English as a Second Language (ESL) in Higher Education**

(Student Option No Audit; Prereq: An intro to linguistics course)  
16191 001 LEC, 12:05-14:45 W, Peik Hall 325, In Person  
Term Based; Suzanne McCurdy ; 3 cr.

**5656 Teaching Literacy in Second Language Classrooms**

(Student Option No Audit; )  
15503 001 LEC, 16:40-19:20 W, Peik Hall 355, In Person  
Term Based; Anuradha Gopalakrishnan ; 3 cr.

**5672 Language-Focused Instructional Practices and Strategies for Dual Language/Immersion Classrooms**

(Student Option; Prereq: instr consent)  
33486 300 LEC, In Person Term Based; Stephanie Owen ; 3 cr.

**5693 Directed Study in Second Language Education**

(Student Option; Prereq: instr consent)  
15344 001 LEC, In Person Term Based; Kendall King, Martha Bigelow, Mary Hermes, Blanca Caldas Chumbes, Samuel David ; 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)  
15742 001 LEC, Independent/Directed Study; Alice Yang ; 2-6 cr.

**5697 Practicum: ESL in the Elementary School**

(Student Option; Prereq: Adviser approval)  
15748 001 LEC, Independent/Directed Study; Alice Yang ; 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)  
15371 001 FWK, In Person Term Based; Alice Yang ; 2-6 cr.

**5699 Clinical Experiences in Second Languages**

(A-F or Audit; Prereq: SLC initial licensure program only)  
15372 001 FWK, 13:25-16:25 W, Peik Hall 40, In Person  
Term Based; 3-12 cr.  
15372 001 FWK, 13:25-16:25 W, Peik Hall 40, In Person  
Term Based; 3-12 cr.

**5702 Social Studies Instruction in the Elementary Grades**

(A-F only; Prereq: Early Childhood or Elementary Education ILP)  
15995 001 LEC, In Person Term Based; Jeff Henning-Smith ; 3 cr.  
15996 002 LEC, In Person Term Based; Jana LoBello ; 3 cr.  
15997 003 LEC, In Person Term Based; Jeff Henning-Smith ; 3 cr.  
16475 004 LEC, In Person Term Based; Jana LoBello ; 3 cr.

**5742 Advanced Methods of Teaching the Social Studies**

(A-F only; Prereq: Secondary social studies initial licensure student)

16402 001 LEC, 13:25-15:55 T, Peik Hall 46, In Person Term  
Based; Holly Pottebaum ; 3 cr.

**5745 Engaging Youth With Social Studies Texts**

(A-F only; )  
16082 001 DIS, 13:25-15:55 Th, Peik Hall 46, In Person  
Term Based; Todd Beach ; 3 cr.

**5782 Clinical Experiences in Teaching Social Studies**

(S-N or Audit; Prereq: MEd/initial licensure student)  
15419 001 FWK, In Person Term Based; J.B. Mayo ; 1-8 cr.

**5822 Mathematics Instruction in the Elementary Grades**

(A-F or Audit; Prereq: Early Childhood or Elementary Education ILP)  
15998 001 LEC, In Person Term Based; Terrence Wyberg ; 3 cr.  
15999 002 LEC, In Person Term Based; Lesa Clarkson ; 3 cr.  
16000 003 LEC, In Person Term Based; Lesa Clarkson ; 3 cr.  
16476 004 LEC, In Person Term Based; Terrence Wyberg ; 3 cr.

**5980 Clinical Experiences for K-12 Teaching**

(A-F only; )  
16564 300 FWK, In Person Term Based; Stephanie Owen ; 1-4 cr.  
16709 200 FWK, Partially Online; Jennifer Clifden ; 1-4 cr.  
33091 201 FWK, In Person Term Based; Jennifer Clifden ; 1-4 cr.

**5981 Introduction to Equity-Based Pedagogy**

(A-F only; )  
16710 200 FWK, Partially Online; Rebecca Slaby ; 1 cr.

**5984 Planning Design and Management**

(A-F only; )  
16761 200 FWK, In Person Term Based; Jade Beauclair ; 1 cr.

**5988 Clinical Experience: Improvement of Teaching**

(A-F only; )  
16733 300 FWK, In Person Term Based; Stephanie Owen ; 2 cr.

**Dakota (DAKO)****3123 Intermediate Dakota I**

(Student Option; Prereq: 1122)  
18510 001 LEC, 10:10-11:00 MTWThF, Hubert H. Humphrey  
School 20, In Person Term Based; Meets With: 001 DAKO  
4123; Joe Bendickson ; 5 cr.  
34377 301 LEC, 10:10-11:00 MTWThF, ONLINE, Completely  
Online; Joe Bendickson ; 5 cr.

**3125 Introduction to Dakota Linguistics**

(Student Option; Prereq: 3124)  
18825 001 LEC, 11:45-13:00 TTh, No Room Required, In  
Person Term Based; Neil McKay ; 3 cr.

**4121 Beginning Dakota I**

(Student Option; Prereq: [1122, 1004] in another  
language or passing score on LPE or grad student)  
20352 001 LEC, 09:05-09:55 MTWThF, Hubert H. Humphrey  
School 20, In Person Term Based; Meets With: 001 DAKO  
1121; Joe Bendickson ; 3 cr.  
35539 301 LEC, 18:00-20:30 T, ONLINE, Completely Online;  
Joe Bendickson ; 3 cr.

**4123 Intermediate Dakota I**

(Student Option; Prereq: 1121, 3123, 5126)  
20353 001 LEC, 10:10-11:00 MTWThF, Hubert H. Humphrey  
School 20, In Person Term Based; Meets With: 001 DAKO  
3123; Joe Bendickson ; 3 cr.  
35414 301 LEC, Completely Online; Joe Bendickson ; 3 cr.

**5126 Advanced Dakota Language I**

(A-F or Audit; )  
18470 001 LEC, 14:30-15:20 MWF, Wulling Hall 240, In  
Person Term Based; Neil McKay ; 3 cr.

**Dance (DNCE)****1001 Modern/Contemporary Dance Technique 1**

(Student Option; )  
17187 001 LAB, 10:10-11:40 TTh, Barbara Barker Ctr Dance  
100, In Person Term Based; Darrius Strong ; 1 cr.

**1010 Modern/Contemporary Dance Technique 3**

(Student Option; Prereq: dept consent, audition)  
17874 002 LAB, 12:20-13:50 MTThF, Barbara Barker Ctr  
Dance 300, In Person Term Based; Carl Flink, Marciano  
Silva Dos Santos ; 1-2 cr.  
34497 001 LAB, 12:20-13:50 TTh, Room TBA, In Person  
Term Based; Carl Flink, Marciano Silva Dos Santos ; 1-2  
cr.

**1101 Ballet Technique 1**

(Student Option; )  
17185 001 LAB, 17:00-18:15 MW, Barbara Barker Ctr Dance  
300, In Person Term Based; Tina Wallum ; 1 cr.

**1110 Ballet Technique 3**

(Student Option; Prereq: dept consent, audition)  
17102 001 LAB, 08:25-09:55 MWF, Barbara Barker Ctr  
Dance 100, In Person Term Based; Tina Wallum ; 2 cr.

**1201 Jazz Technique 1**

(Student Option; )  
17260 001 LAB, 18:30-19:45 TTh, Barbara Barker Ctr Dance  
200, In Person Term Based; Karla Grotting ; 1 cr.

**1210 Jazz Technique 3**

(Student Option; Prereq: dept consent, audition)  
17261 001 LAB, 08:25-09:55 TTh, Barbara Barker Ctr Dance  
100, In Person Term Based; Karla Grotting ; 1 cr.

**1301 Tap Technique 1**

(Student Option; )  
17096 001 LAB, 17:00-18:15 TTh, Barbara Barker Ctr Dance  
300, In Person Term Based; Kaleena Miller ; 1 cr.

**1327 Argentine Tango**

(Student Option; )  
19288 002 LAB, 17:00-18:15 MW, Rarig Center 506 - Studio  
A, In Person Term Based; Andrea DuCane, Rebecca  
Troost ; 1 cr.

**1331 Yoga**

(Student Option; )  
17876 001 LAB, 08:25-09:55 TTh, Barbara Barker Ctr Dance  
300, In Person Term Based; Erin Jorich ; 1 cr.  
17945 002 LAB, 10:10-11:40 TTh, Barbara Barker Ctr Dance  
300, In Person Term Based; Erin Jorich ; 1 cr.  
19684 003 LAB, 09:00-10:30 TTh, Rarig Center 506 - Studio  
A, In Person Term Based; Lucinda Holshue ; 1 cr.

**1332 Yoga for Dancers**

(Student Option; )  
21456 001 LAB, 14:05-15:35 W, Barbara Barker Ctr Dance  
200, In Person Term Based; Ananya Chatterjea ; 1 cr.

**1335 T'ai Chi Ch'uan**

(Student Option; )  
18985 001 LAB, 18:30-19:45 MW, Barbara Barker Ctr Dance  
300, In Person Term Based; Lynn Dennis ; 1 cr.

**1343 Urban & Street Dance Forms 1: Introduction**

(Student Option No Audit; )  
18894 001 LAB, 10:10-11:40 TTh, Rarig Center 20, In  
Person Term Based; Jason Noer ; 1 cr.

**1353 African Diasporic Movement 3**

(Student Option No Audit; )  
18926 001 LAB, In Person Term Based; Meets With: 001  
DNCE 3351; 1 cr.

**1401 Introduction to Dance**

(Student Option No Audit; AH)  
17331 001 LEC, 10:10-11:40 W, Barbara Barker Ctr Dance  
300, 10:10-11:40 M, Carlson School of Mgmt 1-143, In  
Person Term Based; Jason Noer, Natalie Dollison ; 3 cr.

**1626 Music for Dance**

(Student Option; Prereq: dept consentAH)  
18893 001 LEC, 14:05-15:35 MTThF, Barbara Barker Ctr  
Dance 301, In Person Term Based; Michelle Kinney ; 3 cr.

**3010 Modern/Contemporary Dance Technique 5**

(Student Option; Prereq: dept consent, audition)  
17254 001 LAB, 14:05-15:35 MTThF, Barbara Barker Ctr  
Dance 100, In Person Term Based; Laura Anne Virtucio,  
Leslie Parker ; 2 cr.



**1101W Introduction to Design Thinking****(A-F only; AH,WI)**

- 14170 001 LEC, 08:45-10:00 TTh, McNeal Hall 33, In Person Term Based; Patricia Hemmis ; 4 cr.  
 14178 002 DIS, 11:45-12:35 W, McNeal Hall 250, In Person Term Based; 4 cr.  
 14179 003 DIS, 09:35-10:25 W, McNeal Hall 262, In Person Term Based; 4 cr.  
 14180 004 DIS, 10:40-11:30 W, McNeal Hall 262, In Person Term Based; 4 cr.  
 14181 005 DIS, 10:40-11:30 T, McNeal Hall 262, In Person Term Based; 4 cr.  
 14182 006 DIS, 10:40-11:30 Th, McNeal Hall 262, In Person Term Based; 4 cr.

**1111 Creative Problem Solving****(A-F only; )**

- 14538 001 LEC, 11:45-13:40 MW, McNeal Hall 33, In Person Term Based; Meets With: 001 DES 1111H; Brad Hokanson ; 3 cr.

**1111H Honors: Creative Problem Solving****(A-F only; Prereq: Honors)**

- 14536 001 LEC, 11:45-13:40 MW, McNeal Hall 33, Primarily Online; Meets With: 001 DES 1111; Brad Hokanson ; 3 cr.

**1407 Fashion and Feminism: Dressing for Change****(A-F only; )**

- 14672 001 DIS, 10:40-12:35 T, McNeal Hall 250, In Person Term Based; Jean McElvain ; 2 cr.

**2101 Design and Visual Presentation****(A-F only; )**

- 14563 001 LEC, 15:00-16:40 M, McNeal Hall 10, In Person Term Based; Valeria Lopez ; 2 cr.  
 14564 002 LEC, Completely Online; Caroline Houdek Solomon ; 2 cr.  
 14618 003 LEC, Completely Online; Caroline Houdek Solomon ; 2 cr.

**3131 User Experience in Design****(A-F only; )**

- 14471 001 LEC, 15:00-16:55 TTh, McNeal Hall 144, In Person Term Based; Debra Lawton ; 4 cr.  
 14637 002 LEC, 18:15-20:10 TTh, McNeal Hall 144, In Person Term Based; Debra Lawton ; 4 cr.  
 34748 003 LEC, 18:15-20:10 TTh, McNeal Hall 146, In Person Term Based; McLean Donnelly ; 4 cr.

**3201 Career and Internship Preparation for Design****(A-F only; Prereq: Pre-graphic design or graphic design or pre-interior design or interior design or pre-apparel design or apparel design or environmental design or architecture or product design)**

- 14279 001 LEC, 13:55-14:45 T, McNeal Hall 310, In Person Term Based; Heather Nagle ; 1 cr.  
 14280 002 LEC, 10:40-11:30 Th, McNeal Hall 310, In Person Term Based; Elizabeth Hruska ; 1 cr.  
 14502 003 LEC, 09:05-09:55 W, Bruininks Hall 144, In Person Term Based; Kara Branyon ; 1 cr.  
 14660 004 LEC, 09:05-09:55 F, Rapson Hall 9, In Person Term Based; Siri Sorensen ; 1 cr.

**3311 Travels in Typography****(A-F only; )**

- 14514 001 LAB, 18:20-20:50 M, Rapson Hall 109, In Person Term Based; Bill Moran ; 3 cr.

**3321 Furniture Design: Exploration****(A-F only; )**

- 14635 001 LEC, 18:20-20:50 T, Rapson Hall 109, In Person Term Based; Thomas Oliphant ; 3 cr.

**3322 Furniture Design, Practice****(A-F only; )**

- 14615 001 LEC, 09:05-14:05 F, Rapson Hall 109, In Person Term Based; Thomas Oliphant ; 4 cr.

**3331 Street Life Urban Design Seminar****(A-F only; )**

- 14614 001 LEC, 13:25-15:55 T, 1425 University Ave 75, In Person Term Based; Satoko Muratake ; 3 cr.

**4165 Design and Globalization****(A-F or Audit; Prereq: Jr or srDSJ)**

- 14501 001 DIS, 09:35-12:35 F, McNeal Hall 310, In Person Term Based; Meets With: 001 DES 5165; Tasoulla Hadjiyanni ; 3 cr.

**4193 Directed Study in Design****(A-F only; Prereq: dept consent)**

- 14266 001 IND, Independent/Directed Study; ; 1-6 cr.  
 14268 010 IND, Independent/Directed Study; ; 1-6 cr.

**5165 Design and Globalization****(A-F or Audit; Prereq: Grad student)**

- 14604 001 DIS, 09:35-12:35 F, McNeal Hall 310, In Person Term Based; Meets With: 001 DES 4165; Tasoulla Hadjiyanni ; 3 cr.

**5193 Directed Study in Design****(A-F only; Prereq: dept consent)**

- 14450 002 IND, Independent/Directed Study; ; 1-6 cr.  
 14475 003 IND, Independent/Directed Study; ; 1-6 cr.  
 14515 001 IND, Independent/Directed Study; 1-6 cr.

**Dutch (DTCH)****1001 Beginning Dutch****(Student Option; )**

- 17222 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 118, In Person Term Based; Meets With: 001 DTCH 4001; Jenneke Oosterhoff ; 5 cr.

**1003 Intermediate Dutch****(Student Option; Prereq: 1002)**

- 34905 001 DIS, 14:30-15:20 MTWThF, Peik Hall 155, In Person Term Based; Jenneke Oosterhoff ; 5 cr.

**3993 Directed Studies****(Student Option; Prereq-instr consent, dept consent, college consent.)**

- 17404 001 IND, In Person Term Based; Jenneke Oosterhoff ; 1-5 cr.  
 21520 002 IND, In Person Term Based; Jenneke Oosterhoff ; 1-5 cr.

**4001 Beginning Dutch for Graduate Research****(Student Option; )**

- 17472 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 118, In Person Term Based; Meets With: 001 DTCH 1001; Jenneke Oosterhoff ; 5 cr.

**4003 Intermediate Dutch for Graduate Research****(Student Option; )**

- 34906 001 DIS, 09:05-09:55 MTWThF, ONLINE, In Person Term Based; Meets With: 301 DTCH 1001; Jenneke Oosterhoff ; 5 cr.

**5993 Directed Studies****(Student Option; Prereq-instr consent, dept consent, college consent.)**

- 17405 001 IND, In Person Term Based; Jenneke Oosterhoff ; 1-4 cr.  
 21534 002 IND, In Person Term Based; Jenneke Oosterhoff ; 1-4 cr.

**Earth Sciences (ESCI)****1001 Earth and Its Environments****(Student Option; ENV,PHYS)**

- 24674 001 LEC, 11:15-12:05 MWF, Fraser Hall 102, In Person Term Based; Meets With: 101 ESCI 1101; Marc Hirschmann ; 4 cr.  
 24675 002 LEC, 12:20-13:10 MWF, Nicholson Hall 275, In Person Term Based; Meets With: 102 ESCI 1101; Justin Revenaugh ; 4 cr.  
 24676 003 LEC, 09:45-11:00 TTh, Nicholson Hall 275, In Person Term Based; Meets With: 103 ESCI 1101; Emi Ito ; 4 cr.  
 24677 004 LEC, 14:30-15:45 TTh, Fraser Hall 102, In Person Term Based; Meets With: 104 ESCI 1101; Annia Fayon ; 4 cr.  
 24678 101 LAB, 09:05-10:45 M, Ford Hall 185, In Person Term Based; 4 cr.  
 24679 102 LAB, 13:25-15:05 M, Ford Hall 185, In Person Term Based; 4 cr.  
 24680 103 LAB, 15:35-17:15 M, Ford Hall 185, In Person Term Based; 4 cr.  
 24681 105 LAB, 11:15-12:55 T, Ford Hall 185, In Person Term Based; 4 cr.  
 24682 106 LAB, 16:00-17:40 T, Ford Hall 185, In Person Term Based; 4 cr.  
 24684 108 LAB, 09:05-10:45 W, Ford Hall 185, In Person Term Based; 4 cr.  
 24685 109 LAB, 13:25-15:05 W, Ford Hall 185, In Person Term Based; 4 cr.  
 24686 110 LAB, 15:35-17:15 W, Ford Hall 185, In Person Term Based; Elena Chambers ; 4 cr.

- 24687 111 LAB, 17:30-19:10 W, Ford Hall 185, In Person Term Based; 4 cr.  
 24688 112 LAB, 11:15-12:55 Th, Ford Hall 185, In Person Term Based; 4 cr.  
 25476 104 LAB, 17:30-19:10 M, Ford Hall 185, In Person Term Based; 4 cr.  
 25899 113 LAB, 13:25-15:05 Th, Ford Hall 185, In Person Term Based; Alexis Stricker ; 4 cr.

**1006 Oceanography****(Student Option; ENV,PHYS)**

- 24689 101 LAB, 09:05-10:45 M, Tate Hall 185, In Person Term Based; 4 cr.  
 24690 102 LAB, 11:15-12:55 M, Tate Hall 185, In Person Term Based; 4 cr.  
 24692 106 LAB, 09:05-10:45 T, Tate Hall 185, In Person Term Based; 4 cr.  
 24693 108 LAB, 16:00-17:40 T, Tate Hall 185, In Person Term Based; 4 cr.  
 25823 103 LAB, 13:25-15:05 M, Tate Hall 185, In Person Term Based; 4 cr.  
 26103 002 LEC, 13:00-14:15 TTh, Tate Hall 101, In Person Term Based; Meets With: 002 ESCI 1106; William Seyfried ; 4 cr.  
 26105 104 LAB, 15:35-17:15 M, Tate Hall 185, In Person Term Based; 4 cr.  
 26106 107 LAB, 11:15-12:55 T, Tate Hall 185, In Person Term Based; 4 cr.  
 26107 110 LAB, 11:15-12:55 W, Tate Hall 185, In Person Term Based; 4 cr.  
 26108 111 LAB, 13:25-15:20 W, Tate Hall 185, In Person Term Based; 4 cr.  
 26109 112 LAB, 15:35-17:15 W, Tate Hall 185, In Person Term Based; 4 cr.  
 26274 001 LEC, 14:30-15:45 TTh, Bruininks Hall 230, In Person Term Based; Meets With: 001 ESCI 1106; Cara Santelli ; 4 cr.  
 26788 114 LAB, 09:05-10:45 Th, Tate Hall 185, In Person Term Based; 4 cr.  
 26789 115 LAB, 11:15-12:55 Th, Tate Hall 185, In Person Term Based; 4 cr.  
 34732 109 LAB, 09:05-10:45 W, Tate Hall 185, In Person Term Based; 4 cr.

**1007 From Microbes to Mammoths: History of Life on Earth****(Student Option; BIOL)**

- 25927 001 LEC, 09:45-11:00 TTh, Tate Hall 101, In Person Term Based; David Fox, Tina Loesekann ; 4 cr.  
 25928 101 LAB, 10:10-12:05 M, Tate Hall 160, In Person Term Based; 4 cr.  
 25929 102 LAB, 12:20-14:15 M, Tate Hall 160, In Person Term Based; 4 cr.  
 25930 103 LAB, 14:30-16:25 M, Tate Hall 160, In Person Term Based; 4 cr.  
 25931 104 LAB, 11:15-13:10 T, Tate Hall 160, In Person Term Based; 4 cr.  
 25932 105 LAB, 13:25-15:20 T, Tate Hall 160, In Person Term Based; 4 cr.  
 25933 107 LAB, 09:05-11:00 W, Tate Hall 160, In Person Term Based; 4 cr.  
 25938 108 LAB, 11:15-13:10 W, Tate Hall 160, In Person Term Based; 4 cr.

**1012 Natural Hazards and Disasters****(Student Option; TS)**

- 26031 001 LEC, 16:00-17:15 MW, Tate Hall 101, In Person Term Based; David Birlenbach ; 3 cr.

**1101 Introduction to Geology****(Student Option; ENV)**

- 24575 101 LEC, 11:15-12:05 MWF, Fraser Hall 102, In Person Term Based; Meets With: 001 ESCI 1001; Marc Hirschmann ; 3 cr.  
 25473 102 LEC, 12:20-13:10 MWF, Nicholson Hall 275, In Person Term Based; Meets With: 002 ESCI 1001; Justin Revenaugh ; 3 cr.  
 25474 103 LEC, 09:45-11:00 TTh, Nicholson Hall 275, In Person Term Based; Meets With: 003 ESCI 1001; Emi Ito ; 3 cr.  
 25475 104 LEC, 14:30-15:45 TTh, Fraser Hall 102, In Person Term Based; Meets With: 004 ESCI 1001; Annia Fayon ; 3 cr.

**1106 Oceanography****(Student Option; ENV)**

- 26104 002 LEC, 13:00-14:15 TTh, Tate Hall 101, In Person Term Based; Meets With: 002 ESCI 1006; William Seyfried ; 3 cr.  
 26275 001 LEC, 14:30-15:45 TTh, Bruininks Hall 230, In Person Term Based; Meets With: 001 ESCI 1006; Cara Santelli ; 3 cr.

**1902 Geology of Minnesota****(Student Option; ENV)**



27079 001 LEC, 10:10-11:50 W, Tate Hall B45, In Person Term Based; Harvey Thorleifson ; 3 cr.

### 1904 Astrobiology: The Science of the Search for Life on Other Planets

(Student Option No Audit; )  
27080 001 LEC, 10:10-11:00 TTh, Tate Hall 401-20, In Person Term Based; Jeff Havig ; 3 cr.

### 2201 Solid Earth Dynamics

(A-F or Audit; Prereq: concurrent registration is required (or allowed) in PHYS 1301 or instr consent)  
24279 001 LEC, 13:00-14:15 TTh, Tate Hall 110, In Person Term Based; Christian Teyssier, Bruce Moskowit, Ikuko Wada ; 4 cr.  
24281 102 LAB, 11:15-12:55 M, Tate Hall 180, In Person Term Based; 4 cr.  
26326 103 LAB, 13:25-15:05 M, Tate Hall 180, In Person Term Based; 4 cr.  
26785 104 LAB, 15:35-17:15 M, Tate Hall 180, In Person Term Based; 4 cr.

### 2301 Mineralogy

(Student Option; Prereq: [concurrent registration is required (or allowed) in CHEM 1061, concurrent registration is required (or allowed) in CHEM 1065, concurrent registration is required (or allowed) in MATH 1271] or instr consent)  
24282 001 LEC, 10:10-11:00 MW, Tate Hall 110, In Person Term Based; Joshua Feinberg ; 3 cr.  
24284 102 LAB, 11:15-12:55 W, Tate Hall 180, In Person Term Based; 3 cr.  
26325 103 LAB, 13:25-15:05 W, Tate Hall 180, In Person Term Based; 3 cr.  
26790 104 LAB, 15:35-17:15 W, Tate Hall 180, In Person Term Based; 3 cr.

### 3005 Earth Resources

(Student Option; )  
31450 001 LEC, 10:10-11:00 MWF, Tate Hall 120, In Person Term Based; Emi Ito ; 3 cr.

### 3093 Problems in Earth Sciences: Junior

(Student Option; Prereq: instr consent)  
24447 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

### 3202 Fluid Earth Dynamics

(Student Option; Prereq: concurrent registration is required (or allowed) in 2201)  
24285 001 LEC, 11:15-12:30 TTh, Tate Hall 120, In Person Term Based; Chris Paola, Peter K Kang ; 4 cr.  
24286 102 DIS, 12:20-14:00 F, Tate Hall 170, In Person Term Based; 4 cr.  
25477 101 DIS, 09:05-10:45 F, Tate Hall 170, In Person Term Based; 4 cr.

### 3303W Geochemical Principles

(Student Option; Prereq: [concurrent registration is required (or allowed) in CHEM 1061, concurrent registration is required (or allowed) in CHEM 1065] or instr consentWI)  
26032 001 LEC, 11:15-12:05 MWF, Tate Hall 120, In Person Term Based; Larry Edwards ; 4 cr.  
26033 101 DIS, 09:05-10:45 T, Tate Hall 170, In Person Term Based; 4 cr.  
26053 102 DIS, 13:25-15:05 T, Tate Hall 170, In Person Term Based; 4 cr.

### 3896 Internship in Earth and Environmental Sciences

(Student Option No Audit; )  
34750 001 IND, In Person Term Based; Joshua Feinberg ; 1-4 cr.

### 4093 Problems in Earth Sciences: Senior

(Student Option; Prereq: instr consent)  
24448 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)  
24449 001 IND, 00:00-00:00 , , In Person Term Based; 2 cr.

### 4102W Vertebrate Paleontology: Evolutionary History and Fossil Records of Vertebrates

(A-F or Audit; Prereq: 1001 or 1002 or Biol 1001 or Biol 1002 or Biol 1009 or instr consentWI)  
31451 001 LEC, 14:30-15:45 TTh, Tate Hall 120, In Person Term Based; David Fox, Peter Makovicky ; 3 cr.

### 4203 Environmental Geophysics

(Student Option; Prereq: Phys 1301)  
24444 001 LEC, 09:05-09:55 MWF, Tate Hall B65, In Person Term Based; Meets With: 001 ESCI 8203; Bruce Moskowit, Maximiliano Bezada ; 3 cr.

### 4501 Structural Geology

(Student Option; Prereq: 2201, 2302)  
24287 001 LEC, 14:30-15:20 MW, Tate Hall 120, In Person Term Based; Meets With: 001 ESCI 8501; Christian Teyssier ; 3 cr.  
24288 101 LAB, 09:05-10:45 Th, Tate Hall 180, In Person Term Based; Meets With: 101 ESCI 8501; 3 cr.  
24289 102 LAB, 12:40-14:20 Th, Tate Hall 180, In Person Term Based; Meets With: 102 ESCI 8501; 3 cr.

### 4701 Geomorphology

(Student Option; Prerequisite courses or their equivalents, and it is recommended to take these classes at least concurrently (as co-requisites) with geomorphology. No help will be given on material covered in prerequisite courses.)  
31751 001 LEC, 09:45-11:00 TTh, Lind Hall 303, In Person Term Based; Meets With: 001 ESCI 8701; Andrew Wickert ; 4 cr.  
31752 101 LAB, 08:00-09:40 Th, Tate Hall 170, In Person Term Based; Meets With: 101 ESCI 8701; 4 cr.

### 4703 Glacial Geology

(Student Option; Prereq: 1001 or instr consent)  
34436 001 LEC, 13:25-14:15 MWF, Tate Hall B65, In Person Term Based; Carrie Jennings, Andrew Wickert ; 4 cr.  
34437 101 LAB, 14:30-16:10 F, Tate Hall 170, In Person Term Based; 4 cr.

### 5201 Time-Series Analysis of Geological Phenomena

(A-F or Audit; Prereq: Math 2263 or instr consent)  
31753 001 LEC, 14:30-15:45 TTh, Tate Hall B45, In Person Term Based; Justin Revenaugh ; 3 cr.

### 5353 Electron Microprobe Theory and Practice

(Student Option; Prereq: [One yr chem, one yr physics] or instr consent)  
27051 001 LEC, 10:15-12:05 W, Tate Hall 401-20, In Person Term Based; Anette von der Handt ; 3 cr.  
27052 101 LAB, 08:00-09:40 Th, Lab TBA, In Person Term Based; Anette von der Handt ; 3 cr.  
27053 102 LAB, 10:10-11:50 Th, Lab TBA, In Person Term Based; Anette von der Handt ; 3 cr.  
27054 103 LAB, 13:25-15:05 Th, Lab TBA, In Person Term Based; Anette von der Handt ; 3 cr.

### 5980 Seminar: Current Topics in Earth Sciences

(S-N or Audit; )  
35440 001 LEC, 11:15-12:30 TTh, Tate Hall 401-20, In Person Term Based; Gene-Hua Ng ; 1-4 cr.

## East Asian Studies (EAS)

### 3461 Introduction to East Asia I: The Imperial Age

(Student Option; )  
20059 004 LEC, 11:15-12:30 TTh, Blegen Hall 10, In Person Term Based; Meets With: 004 HIST 3461; Liping Wang ; 3-4 cr.

### 3468 Social Change in Modern China

(Student Option; )  
18459 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey School 60, In Person Term Based; Meets With: 001 HIST 3468; Liping Wang ; 3 cr.

### 3471 Modern Japan, Meiji to the Present (1868-2000)

(Student Option; HIS)  
33676 001 LEC, 13:00-14:15 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 ALL 3478001 HIST 3471; Hiromi Mizuno ; 3 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 majorENV)

14707 001 LEC, 12:50-13:40 MWF, Hodson Hall 490, In Person Term Based; Jennifer Powers ; 3 cr.

### 3407 Ecology

(Student Option; )  
14994 001 LEC, 08:30-09:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 5407; Clarence Lehman ; 3 cr.  
14995 002 LAB, 09:35-12:35 T, Biological Sciences Ctr 6, In Person Term Based; Meets With: 002 EEB 5407; 3 cr.  
14996 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 6, In Person Term Based; Meets With: 003 EEB 5407; 3 cr.  
14997 004 LAB, 12:50-15:50 W, Biological Sciences Ctr 6, In Person Term Based; Meets With: 004 EEB 5407; 3 cr.  
14998 005 LAB, 09:35-12:35 Th, Biological Sciences Ctr 6, In Person Term Based; Meets With: 005 EEB 5407; 3 cr.  
14999 006 LAB, 13:55-16:55 Th, Biological Sciences Ctr 6, In Person Term Based; Meets With: 006 EEB 5407; 3 cr.  
15000 007 LAB, 09:35-12:35 F, Biological Sciences Ctr 6, In Person Term Based; Meets With: 007 EEB 5407; 3 cr.  
15146 008 LAB, 16:30-19:30 W, Biological Sciences Ctr 6, In Person Term Based; Meets With: 008 EEB 5407; 3 cr.  
34839 009 LAB, 09:35-12:35 W, Biological Sciences Ctr 6, In Person Term Based; Meets With: 009 EEB 5407; 3 cr.

### 3409 Evolution

(Student Option; Prereq: One semester college biology)  
15001 001 LEC, 10:40-11:30 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 5409; William Harcombe, Nicholas Goldsmith ; 3 cr.  
15002 005 LAB, 09:35-12:35 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 5409; 3 cr.  
15003 006 LAB, 13:55-16:55 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 003 EEB 5409; 3 cr.  
15004 004 LAB, 11:45-14:45 W, Biological Sciences Ctr 245, In Person Term Based; Meets With: 004 EEB 5409; 3 cr.  
15005 007 LAB, 08:30-11:30 F, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 5409; 3 cr.  
15198 002 LAB, 09:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 006 EEB 5409; 3 cr.  
15199 003 LAB, 13:55-16:55 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 007 EEB 5409; 3 cr.

### 3411 Introduction to Animal Behavior

(Student Option; Prereq: One semester of college biology)  
15006 001 LEC, 09:35-10:25 MW, Hodson Hall 495, In Person Term Based; Mark Bee ; 3 cr.  
15007 002 LAB, 12:50-15:50 W, Biological Sciences Ctr 151, In Person Term Based; 3 cr.  
15008 003 LAB, 08:30-11:30 Th, Biological Sciences Ctr 151, In Person Term Based; 3 cr.  
15009 004 LAB, 12:50-15:50 Th, Biological Sciences Ctr 151, In Person Term Based; 3 cr.  
15010 006 LAB, 09:35-12:35 F, Biological Sciences Ctr 151, In Person Term Based; 3 cr.  
15035 005 LAB, 16:30-19:30 Th, Biological Sciences Ctr 151, In Person Term Based; 3 cr.

### 3701 EEB Seminar

(S-N only; )  
35581 001 LEC, 15:30-17:00 W, , In Person Term Based; 1 cr.

### 4129 Mammalogy

(A-F or Audit; Prereq: Biol 1001 or Biol 2012)  
14822 001 LEC, 10:15-11:30 TTh, Hodson Hall 490, In Person Term Based; Sharon Jansa ; 4 cr.  
14823 002 LAB, 13:00-16:00 T, Ecology Building 160, In Person Term Based; 4 cr.  
14824 003 LAB, 09:35-12:35 W, Ecology Building 160, In Person Term Based; 4 cr.  
14839 004 LAB, 13:00-16:00 Th, Ecology Building 160, In Person Term Based; 4 cr.

### 4330W Animal Communication

(A-F or Audit; Prereq: BIOL 1951, BIOL 2003/2004, BIOL 3411, PHYS 1201W, PHYS 1202W [PHYS 1301W, PHYS 1302W]WI)  
34060 001 LEC, 13:30-14:45 MW, Ecology Building 200, In Person Term Based; Mark Bee ; 3 cr.

### 4609W Ecosystem Ecology

(Student Option; Prereq: Biol 3407 or instr consentENV,WI)  
14929 001 LEC, 09:35-10:25 MW, Ecology Building 170, In Person Term Based; Meets With: 001 EEB 5609; Sarah Hobbie ; 3 cr.  
14930 002 DIS, 09:35-10:25 F, Ecology Building 170, In Person Term Based; Sarah Hobbie ; 3 cr.

### 4793W Directed Studies: Writing Intensive

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

14815 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

#### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent(WI))  
14816 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

#### 4993 Directed Studies

(S-N or Audit; Prereq: instr consent, dept consent)  
14787 001 IND, 00:00-00:00 , , In Person Term Based; 1-7 cr.

#### 4994 Directed Research

(S-N only; Prereq: instr consent, dept consent)  
14788 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

#### 5042 Quantitative Genetics

(A-F only; Prereq: [BIOL 4003 or GCD 3022] or instr consent; a course in statistics is recommended)  
15204 001 LEC, 08:45-10:00 TTh, McNeal Hall 395, In Person Term Based; Ruth Shaw ; 3 cr.

#### 5053 Ecology: Theory and Concepts

(Student Option; Prereq: Biol 3407 or instr consent)  
34707 001 DIS, 08:45-10:00 TTh, Ecology Building 505, In Person Term Based; David Tilman ; 4 cr.

#### 5371 Principles of Systematics

(Student Option; Prereq: Grad student or instr consent)  
33285 001 LEC, 13:30-14:45 TTh, Ecology Building 505, In Person Term Based; Keith Barker ; 3 cr.

#### 5407 Ecology

(Student Option; Prereq: [Math 1142, 1241, 1271 or equivalent])

15011 001 LEC, 08:30-09:20 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 3407; Clarence Lehman ; 3 cr.  
15015 005 LAB, 09:35-12:35 Th, Biological Sciences Ctr 6, In Person Term Based; Meets With: 005 EEB 3407; 3 cr.  
15147 008 LAB, 16:30-19:30 W, Biological Sciences Ctr 6, In Person Term Based; Meets With: 008 EEB 3407; 3 cr.  
35274 009 LAB, 09:35-12:35 W, Biological Sciences Ctr 6, In Person Term Based; Meets With: 009 EEB 3407; 3 cr.

#### 5409 Evolution

(Student Option; Prereq: One semester college biology)

15018 001 LEC, 10:40-11:30 MW, Borlaug Hall 335, In Person Term Based; Meets With: 001 EEB 3409; William Harcombe, Nicholas Goldsmith ; 3 cr.  
15019 002 LAB, 09:35-12:35 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 005 EEB 3409; 3 cr.  
15020 003 LAB, 13:55-16:55 Th, Biological Sciences Ctr 245, In Person Term Based; Meets With: 006 EEB 3409; 3 cr.  
15021 004 LAB, 11:45-14:45 W, Biological Sciences Ctr 245, In Person Term Based; Meets With: 004 EEB 3409; 3 cr.  
15022 005 LAB, 08:30-11:30 F, Biological Sciences Ctr 245, In Person Term Based; Meets With: 007 EEB 3409; 3 cr.  
15200 006 LAB, 09:35-12:35 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 002 EEB 3409; 3 cr.  
15201 007 LAB, 13:55-16:55 T, Biological Sciences Ctr 245, In Person Term Based; Meets With: 003 EEB 3409; 3 cr.

#### 5609 Ecosystem Ecology

(Student Option; Prereq: [Biol 3407 or Biol 5407] or instr consent)

14937 001 LEC, 09:35-10:25 MW, Ecology Building 170, In Person Term Based; Meets With: 001 EEB 4609W; Sarah Hobbie ; 3 cr.  
14938 002 DIS, 09:35-10:25 Th, Ecology Building 170, In Person Term Based; Sarah Hobbie ; 3 cr.

## Economics (ECON)

#### 1101 Principles of Microeconomics

(Student Option; Prereq: knowledge of plane geometry and advanced algebra,GP,SOCS)

17338 001 LEC, 09:05-09:55 MWF, Willey Hall 175, In Person Term Based; Fahima Aziz ; 4 cr.  
17339 002 DIS, 10:10-11:00 W, Blegen Hall 335, In Person Term Based; 4 cr.  
17339 002 DIS, 10:10-11:00 W, Blegen Hall 335, In Person Term Based; 4 cr.  
17340 003 DIS, 10:10-11:00 W, Hanson Hall 1-109, In Person Term Based; 4 cr.  
17341 004 DIS, 10:10-11:00 W, Hanson Hall 1-107, In Person Term Based; 4 cr.  
17342 005 DIS, 11:15-12:05 W, Blegen Hall 125, In Person Term Based; 4 cr.

17343 006 DIS, 11:15-12:05 W, Blegen Hall 415, In Person Term Based; 4 cr.

17344 008 DIS, 11:15-12:05 W, Blegen Hall 225, In Person Term Based; 4 cr.  
17345 009 DIS, 12:20-13:10 W, Carlson School of Mgmt L-122, In Person Term Based; 4 cr.  
17346 011 DIS, 12:20-13:10 W, Blegen Hall 225, In Person Term Based; 4 cr.  
17347 013 DIS, 13:25-14:15 W, Carlson School of Mgmt L-126, In Person Term Based; Leo Stanek ; 4 cr.  
17348 018 DIS, 08:00-08:50 W, Blegen Hall 125, In Person Term Based; 4 cr.  
17349 019 DIS, 11:15-12:05 W, Blegen Hall 230, In Person Term Based; 4 cr.  
17350 020 DIS, 11:15-12:05 W, Blegen Hall 220, In Person Term Based; 4 cr.  
17351 021 DIS, 11:15-12:05 W, Blegen Hall 240, In Person Term Based; 4 cr.  
17352 022 LEC, 10:10-11:00 MWF, Willey Hall 175, In Person Term Based; Fahima Aziz ; 4 cr.  
17353 025 DIS, 09:05-09:55 F, Blegen Hall 110, In Person Term Based; 4 cr.  
17354 026 DIS, 09:05-09:55 F, Blegen Hall 145, In Person Term Based; 4 cr.  
17355 027 DIS, 09:05-09:55 F, Blegen Hall 140, In Person Term Based; 4 cr.  
17356 028 DIS, 13:25-14:15 F, Blegen Hall 145, In Person Term Based; 4 cr.  
17357 029 DIS, 13:25-14:15 F, Blegen Hall 140, In Person Term Based; 4 cr.  
17360 042 DIS, 09:05-09:55 F, Blegen Hall 125, In Person Term Based; 4 cr.  
17361 044 LEC, 16:00-17:15 TTh, Blegen Hall 125, In Person Term Based; 4 cr.  
17550 032 DIS, 12:20-13:10 F, Blegen Hall 135, In Person Term Based; 4 cr.  
17813 037 DIS, 12:20-13:10 F, Blegen Hall 145, In Person Term Based; 4 cr.  
17815 043 DIS, 12:20-13:10 F, Blegen Hall 140, In Person Term Based; 4 cr.  
17816 045 DIS, 17:30-18:20 Th, Blegen Hall 110, In Person Term Based; 4 cr.  
17908 033 DIS, 12:20-13:10 F, Blegen Hall 110, In Person Term Based; 4 cr.  
17911 054 LEC, 17:30-20:00 Th, Blegen Hall 145, In Person Term Based; 4 cr.  
17912 055 DIS, 20:10-21:00 Th, Blegen Hall 125, In Person Term Based; 4 cr.  
18505 035 DIS, 12:20-13:10 F, Hanson Hall 1-103, In Person Term Based; 4 cr.  
18762 062 LEC, 16:00-17:15 TTh, Blegen Hall 150, In Person Term Based; 4 cr.  
18763 063 DIS, 17:30-18:20 Th, Blegen Hall 140, In Person Term Based; 4 cr.  
18764 065 DIS, 17:30-18:20 Th, Blegen Hall 145, In Person Term Based; 4 cr.  
18787 066 LEC, 16:00-17:15 TTh, Hanson Hall 1-105, In Person Term Based; 4 cr.  
18788 067 DIS, 17:30-18:20 T, Blegen Hall 140, In Person Term Based; 4 cr.  
18789 068 DIS, 17:30-18:20 Th, Blegen Hall 125, In Person Term Based; 4 cr.  
18908 072 LEC, 08:00-08:50 MWF, Hanson Hall 1-107, In Person Term Based; 4 cr.  
18909 074 DIS, 14:30-15:20 W, Blegen Hall 330, In Person Term Based; Rahee Jung ; 4 cr.  
18928 075 DIS, 12:20-13:10 W, Blegen Hall 135, In Person Term Based; 4 cr.  
19274 016 DIS, 14:30-15:20 W, Carlson School of Mgmt 1-147, In Person Term Based; 4 cr.  
19275 034 DIS, 14:30-15:20 F, Hanson Hall 1-103, In Person Term Based; 4 cr.  
19540 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Brian Albrecht ; 4 cr.  
20142 015 DIS, 14:30-15:20 W, Blegen Hall 110, In Person Term Based; 4 cr.  
20143 023 DIS, 09:05-09:55 F, Hanson Hall 1-107, In Person Term Based; 4 cr.  
21281 012 DIS, 10:10-11:00 W, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.  
21282 024 DIS, 11:15-12:05 F, Blegen Hall 140, In Person Term Based; 4 cr.  
21476 077 LEC, 16:00-17:15 MW, Hanson Hall 1-111, In Person Term Based; 4 cr.  
35130 080 LEC, 17:00-18:15 MW, Blegen Hall 225, In Person Term Based; 4 cr.  
35131 081 DIS, 18:30-19:20 W, Blegen Hall 205, In Person Term Based; 4 cr.  
35420 082 DIS, 13:25-14:15 F, Blegen Hall 335, In Person Term Based; 4 cr.

#### 1102 Principles of Macroeconomics

(Student Option; Prereq: [1101 or equiv], knowledge of plane geometry and advanced algebra)

17362 001 LEC, 08:15-09:30 TTh, Willey Hall 125, In Person Term Based; 4 cr.

17363 002 DIS, 11:15-12:05 W, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.

17364 003 DIS, 11:15-12:05 W, Blegen Hall 135, In Person Term Based; 4 cr.  
17365 004 DIS, 10:10-11:00 W, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
17366 005 DIS, 09:05-09:55 W, Blegen Hall 125, In Person Term Based; 4 cr.  
17367 007 DIS, 13:25-14:15 W, Blegen Hall 125, In Person Term Based; 4 cr.  
17368 030 LEC, 17:15-19:45 W, Blegen Hall 125, In Person Term Based; 4 cr.  
17787 032 LEC, 16:00-17:15 TTh, Hanson Hall 1-103, In Person Term Based; 4 cr.  
17817 031 DIS, 19:55-20:45 W, Blegen Hall 125, In Person Term Based; 4 cr.  
17818 033 DIS, 17:30-18:20 T, Hanson Hall 1-103, In Person Term Based; 4 cr.  
18790 036 DIS, 17:30-18:20 T, Blegen Hall 125, In Person Term Based; 4 cr.  
18942 039 LEC, 17:15-19:45 T, Hanson Hall 1-111, In Person Term Based; 4 cr.  
19541 301 LEC, 00:00-00:00 , ONLINE, Completely Online; John Kumcu ; 4 cr.  
19789 006 DIS, 10:10-11:00 W, Hubert H. Humphrey School 35, In Person Term Based; 4 cr.  
19844 040 DIS, 19:55-20:45 T, Hanson Hall 1-103, In Person Term Based; 4 cr.

#### 3101 Intermediate Microeconomics

(A-F only; Prereq: [[1101, 1102] or equiv], [MATH 1271 or equiv])

17061 001 LEC, 09:45-11:00 TTh, Willey Hall 125, In Person Term Based; 4 cr.  
17062 002 DIS, 08:00-08:50 F, Hanson Hall 1-105, In Person Term Based; 4 cr.  
17063 004 DIS, 09:05-09:55 F, Hanson Hall 1-105, In Person Term Based; 4 cr.  
17064 006 DIS, 10:10-11:00 F, Hanson Hall 1-105, In Person Term Based; 4 cr.  
17608 005 DIS, 09:05-09:55 F, Hanson Hall 1-103, In Person Term Based; 4 cr.  
19245 007 DIS, 10:10-11:00 F, Hanson Hall 1-103, In Person Term Based; 4 cr.  
19246 008 DIS, 11:15-12:05 F, Hanson Hall 1-105, In Person Term Based; 4 cr.  
19263 009 DIS, 11:15-12:05 F, Hanson Hall 1-103, In Person Term Based; 4 cr.  
20770 003 DIS, 08:00-08:50 F, Hanson Hall 1-103, In Person Term Based; 4 cr.

#### 3102 Intermediate Macroeconomics

(A-F only; Prereq: 3101 or equiv)

17065 002 LEC, 17:00-19:00 MW, Blegen Hall 130, In Person Term Based; 4 cr.  
17066 003 LEC, 17:30-19:30 TTh, Blegen Hall 130, In Person Term Based; 4 cr.  
18777 004 LEC, 16:00-18:00 TTh, Hanson Hall 1-109, In Person Term Based; 4 cr.  
19782 005 LEC, 08:00-09:55 TTh, Blegen Hall 110, In Person Term Based; 4 cr.  
21234 001 LEC, 14:30-16:30 MW, Blegen Hall 130, In Person Term Based; 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)

17067 001 IND, 08:15-09:30 WF, Hanson Hall 1-106, In Person Term Based; 2 cr.

#### 3970 Topics in Economics

(A-F only; Prereq: ECON 3101 or equivalent)

34380 001 LEC, 14:30-15:45 MW, Hanson Hall 1-103, In Person Term Based; Fahima Aziz ; 3 cr.

#### 3991 Independent Study

(A-F or Audit; Prereq: 3101, 3102, dept consent)

17068 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)

17069 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

#### 4100W Undergraduate Writing in Economics

(A-F or Audit; Prereq: 3101, [concurrent registration is required (or allowed) in 4831 or concurrent registration is required (or allowed) in economics honors course], concurrent registration is required (or allowed) in

economics advanced courses; freshman writing practice completed, instr consent(WI)  
17824 001 LEC, 14:30-15:20 M, Blegen Hall 240, In Person Term Based; 1 cr.

#### 4108 Advanced Game Theory and Applications

(A-F only; Prereq: [[3101, 3102]] or equiv), [[MATH 1271, MATH 1272] or equiv]; students should have successfully completed two 4xxx level UMNTC economics courses.)  
19872 001 LEC, 10:10-12:05 TTh, Blegen Hall 317, In Person Term Based; Anmol Bhandari ; 4 cr.

#### 4161 Microeconomic Analysis I

(A-F only; Prereq: 3101, 3102, MATH 2243, MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept consent)  
17387 001 LEC, 14:30-15:45 TTh, Carlson School of Mgmt 1-127, In Person Term Based; Jan Werner ; 2 cr.  
17388 002 DIS, 16:30-17:45 W, Carlson School of Mgmt 1-136, In Person Term Based; 2 cr.

#### 4162 Microeconomic Analysis II

(A-F or Audit; Prereq: 3101, 3102, 4161, MATH 2243, MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept consent)  
17389 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey School 30, In Person Term Based; Christopher Phelan ; 2 cr.  
17390 002 DIS, 16:30-17:45 W, Carlson School of Mgmt 1-136, In Person Term Based; 2 cr.

#### 4165 Macroeconomic Theory

(Student Option; Prereq: 3101, 3102, MATH 2243, MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept consent)  
17395 001 LEC, 14:30-15:45 TTh, Blegen Hall 155, In Person Term Based; Meets With: 001 ECON 8105; Timothy Kehoe ; 2 cr.  
17396 002 DIS, 16:10-17:25 T, Hanson Hall 1-107, In Person Term Based; Meets With: 002 ECON 8105; 2 cr.

#### 4166 Macroeconomic Theory

(Student Option; Prereq: 3101, 3102, 4165, MATH 2243, MATH 2263, [[STAT 4101, STAT 4102] or equiv], dept consent)  
17397 001 LEC, 14:30-15:45 TTh, Blegen Hall 155, In Person Term Based; Meets With: 001 ECON 8106; Larry Jones ; 2 cr.  
17398 002 DIS, 16:15-17:30 T, Hanson Hall 1-107, In Person Term Based; Meets With: 002 ECON 8106; 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))  
17070 001 LEC, 13:25-14:15 MWF, Blegen Hall 110, In Person Term Based; 4 cr.  
17071 002 DIS, 13:25-14:15 T, Anderson Hall 250, 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)  
17072 001 LEC, 16:00-17:15 TTh, Hanson Hall 1-104, In Person Term Based; 4 cr.  
17073 002 DIS, 17:30-18:20 Th, Hanson Hall 1-111, In Person Term Based; 4 cr.  
20144 003 DIS, 17:30-18:20 Th, Hanson Hall 1-105, In Person Term Based; 4 cr.

#### 4311 Economy of Latin America

(Student Option; Prereq: [1101, 1102] or equiv)  
19197 001 LEC, 11:15-12:30 MW, Blegen Hall 255, In Person Term Based; 3 cr.

#### 4317 The Chinese Economy

(A-F only; )  
20533 001 LEC, 17:00-18:15 MW, Hanson Hall 1-108, In Person Term Based; 3 cr.

#### 4331W Economic Development

(Student Option; Prereq: [[3101, 3102] or equiv], completion of freshman writing practice(WI))  
17609 001 LEC, 17:15-19:45 Th, Hanson Hall 1-107, In Person Term Based; Per Malmberg ; 3 cr.  
17993 002 LEC, 16:00-17:15 MW, Hanson Hall 1-103, In Person Term Based; 3 cr.

#### 4431W International Trade

(Student Option; Prereq: [3101, 3102] or equiv, freshman writing practice(GP,WI))  
17075 001 LEC, 11:15-12:30 TTh, Hanson Hall 1-103, In Person Term Based; Simran Sahi ; 3 cr.

#### 4531 Labor Economics

(Student Option; Prereq: 3101, 3102 or equiv)  
17076 001 LEC, 13:00-14:15 TTh, Hanson Hall 1-111, In Person Term Based; 3 cr.

#### 4631 Industrial Organization and Antitrust Policy

(Student Option; Prereq: 3101 or equiv)  
19264 001 LEC, 11:15-12:30 TTh, Blegen Hall 250, In Person Term Based; 3 cr.  
33391 002 LEC, 11:15-12:30 TTh, Blegen Hall 150, In Person Term Based; 3 cr.

#### 4721 Money and Banking

(A-F only; Prereq: [3101, 3102] or equiv)  
17077 001 LEC, 14:30-15:45 TTh, Hanson Hall 1-111, In Person Term Based; 3 cr.

#### 4751 Financial Economics

(Student Option; Prereq: [3101 or equiv], [MATH 1271 or equiv], one sem statistics)  
17889 001 LEC, 08:15-09:30 TTh, Hanson Hall 1-107, In Person Term Based; 3 cr.

#### 4821 Public Economics

(A-F only; Prereq: [3101, 3102] or equiv)  
17078 001 LEC, 13:00-14:15 TTh, Hanson Hall 1-107, In Person Term Based; 3 cr.

#### 4831 Cost-Benefit Analysis

(A-F only; Prereq: ECON 3101)  
17079 001 LEC, 08:15-09:30 MW, Hanson Hall 1-105, In Person Term Based; 3 cr.

#### 4960 Topics in Economics

(A-F only; Prereq: [3101 or 3102 or equiv], MATH 1271)  
34381 001 LEC, 17:00-18:00 M, Carlson School of Mgmt L-118, 16:00-18:30 W, Carlson School of Mgmt L-118, In Person Term Based; Beth Allen, ; 4 cr.

#### 4993 Directed Study

(Student Option; Prereq: dept consent)  
17080 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)  
16555 001 LEC, 09:45-11:00 TTh, Appleby Hall 227, In Person Term Based; Suzanne Loch ; 3 cr.  
33339 002 LEC, 09:45-11:00 MW, Appleby Hall 128, In Person Term Based; Suzanne Loch ; 3 cr.

#### 1281 Psychological Science Applied

(A-F only; SOCS)  
16466 001 LEC, 09:05-09:55 MW, Anderson Hall 250, In Person Term Based; Martin Van Boekel ; 4 cr.  
16467 002 LAB, 15:35-16:25 TTh, Appleby Hall 204, In Person Term Based; Martin Van Boekel ; 4 cr.  
16468 003 LAB, 15:35-16:25 TTh, Peik Hall 375, In Person Term Based; Martin Van Boekel ; 4 cr.  
16603 006 LAB, 15:35-16:25 TTh, Folwell Hall 30, In Person Term Based; Martin Van Boekel ; 4 cr.

#### 1905 Beginners' Chess and 21st Century Skills

(Student Option; )  
16699 001 LEC, 11:30-14:15 F, Appleby Hall 128, In Person Term Based; William Bart ; 3 cr.

#### 2601 Understanding Differences, Disabilities, and the Career of Special Education

(A-F only; )  
16266 001 LEC, 11:45-14:15 Th, Blegen Hall 235, 11:45-14:15 T, Blegen Hall 235, In Person Term Based; Rose Vukovic ; 4 cr.

#### 3101 Creativity and Intelligence: an Introduction

(Student Option No Audit; )  
16072 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; )

16160 003 LAB, 14:30-15:45 Th, Peik Hall 225, In Person Term Based; Meets With: 003 EPSY 5001; Jenifer Doll ; 3 cr.  
16161 001 LEC, 14:30-15:45 T, Amundson Hall B75, In Person Term Based; Meets With: 001 EPSY 5001; Jenifer Doll ; 3 cr.  
16265 004 LAB, 14:30-15:45 Th, Peik Hall 215, In Person Term Based; Meets With: 004 EPSY 5001; Jenifer Doll ; 3 cr.

#### 3264 Basic and Applied Statistics

(Student Option; MATH)  
15552 004 LEC, 00:00-00:00 , ONLINE, Completely Online; Suzanne Loch ; 3 cr.  
15985 001 LEC, 09:45-11:00 MW, Bruininks Hall 131A, In Person Term Based; Andrew Zieffler ; 3 cr.  
15986 002 LEC, 09:45-11:00 TTh, Bruininks Hall 420B, In Person Term Based; Jonathan Brown ; 3 cr.  
15987 003 LEC, 13:00-14:15 TTh, Bruininks Hall 131A, In Person Term Based; Suzanne Loch ; 3 cr.

#### 3301 Introduction to Educational Psychology

(Student Option No Audit; SOCS)  
15852 001 LEC, 09:45-11:00 TTh, Nicholson Hall 145, In Person Term Based; Martin Van Boekel ; 3 cr.

#### 3302 Introduction to Communication Skills for Educational and Community Settings

(Student Option No Audit; )  
15913 001 LEC, 16:40-19:20 Th, Appleby Hall 223, In Person Term Based; Sherri Turner ; 3 cr.

#### 3303 Educational Psychology Undergraduate Practicum

(A-F or Audit; )  
15962 001 FWK, 14:30-16:25 M, Smith Hall 111, In Person Term Based; Meets With: 001 EPSY 3303H; Kathy Seifert ; 3 cr.

#### 3303H Honors Educational Psychology Undergraduate Practicum

(A-F or Audit; )  
34981 001 FWK, 14:30-16:25 M, Smith Hall 111, In Person Term Based; Meets With: 001 EPSY 3303; Kathy Seifert ; 3 cr.

#### 3701 Practicum: Field Experience in General Education - Inclusive Classrooms

(S-N only; )  
16267 001 FWK, In Person Term Based; Charissa O'Neill ; 1-2 cr.

#### 5001 Learning, Cognition, and Assessment

(Student Option; Prereq: ME/initial licensure student or CLA music ed or preteaching major or instr consent; psych course recommended)  
15427 001 LEC, 14:30-15:45 T, Amundson Hall B75, In Person Term Based; Meets With: 001 EPSY 3119; Jenifer Doll ; 3 cr.  
16158 003 LAB, 14:30-15:45 Th, Peik Hall 225, In Person Term Based; Meets With: 003 EPSY 3119; Jenifer Doll ; 3 cr.  
16264 004 LAB, 14:30-15:45 Th, Peik Hall 215, In Person Term Based; Meets With: 004 EPSY 3119; Jenifer Doll ; 3 cr.

#### 5016 Teaching Students with Special Needs in Inclusive Settings

(A-F only; Prereq: Enrolled in teacher initial licensure program)  
16060 001 LEC, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, 16:40-19:20 Th, Peik Hall 335, In Person Term Based; Brian Abery, Renata Ticha ; 1 cr.  
16061 002 LEC, 12:30-15:10 M, Elliott Hall N119, 12:30-15:10 M, Elliott Hall N119, 12:30-15:10 M, Elliott Hall N119, In Person Term Based; Bradley Kaffar ; 1 cr.

#### 5101 Intelligence and Creativity

(A-F or Audit; )  
15540 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 001 EPSY 3101; William Bart ; 3 cr.

#### 5135 Human Relations Workshop

(Student Option; )  
15452 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Maria Pabon ; 4 cr.

**5157 Social & Developmental Psychology of Education**

(A-F or Audit; )  
16073 001 LEC, 13:00-14:15 MW, Peik Hall 335, In Person  
Term Based; Martin Van Boekel ; 3 cr.

**5200 Special Topics: Psychological Foundations**

(Student Option; )  
35346 001 LEC, 14:30-17:10 W, Folwell Hall 10, In Person  
Term Based; Jeffrey Bye ; 1-4 cr.

**5216 Introduction to Research in Educational Psychology and Human Development**

(A-F or Audit; Prereq: 5261 or intro statistics course)  
15335 001 DIS, 14:30-17:15 M, Peik Hall 215, In Person  
Term Based; Steve Yussen ; 3 cr.

**5221 Principles of Educational and Psychological Measurement**

(Student Option; )  
15507 001 LEC, 14:30-15:45 MW, Bruininks Hall 530B, In  
Person Term Based; Michael Rodriguez ; 3 cr.  
16074 002 LEC, 08:15-09:30 WF, Bruininks Hall 512B, In  
Person Term Based; Ernest Davenport ; 3 cr.

**5243 Principles and Methods of Evaluation**

(Student Option; )  
15537 001 LEC, 16:40-19:20 W, Burton Hall 120, In Person  
Term Based; Meets With: 001 OLPD 5501; John LaVelle ;  
3 cr.  
15538 002 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Meets With: 002 OLPD 5501; Stuart Yeh ; 3 cr.

**5244 Survey Design, Sampling, and Implementation**

(Student Option; Prereq: [5221 or 5231 or 5261 or  
equiv], [CEHD grad student or MEd student])  
15526 001 LEC, 16:40-19:20 W, Peik Hall 315, In Person  
Term Based; Ozge Ersan Cinar ; 3 cr.

**5247 Qualitative Methods in Educational Psychology**

(Student Option; Prereq: Graduate student or Applied  
Psychology in Educational and Community Settings  
Minor)  
15539 001 LEC, 16:40-19:30 M, Blegen Hall 440, In Person  
Term Based; Michael Beckstrand ; 3 cr.

**5261 Introductory Statistical Methods**

(Student Option; )  
15491 001 LEC, 16:00-17:15 TTh, Bruininks Hall 512A, In  
Person Term Based; Jonathan Brown ; 3 cr.  
15823 003 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Chelsey Legacy ; 3 cr.  
16075 002 LEC, 09:45-11:00 WF, Bruininks Hall 530B, In  
Person Term Based; Robert delMas ; 3 cr.  
16338 004 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Vimal Rao ; 3 cr.  
16768 005 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Brett Morrow ; 3 cr.

**5272 Statistics Teaching Internship**

(S-N only; Prereq: Grad student, instr consent)  
15781 001 FWK, 00:00-00:00 , , Independent/Directed Study;  
1-3 cr.

**5405 Career Counseling**

(A-F or Audit; )  
34445 001 DIS, 10:10-12:50 Th, Peik Gymnasium G65, In  
Person Term Based; Carolyn Berger ; 3 cr.

**5406 Ethics in Counseling**

(A-F only; )  
15759 001 LEC, 16:40-19:20 T, Elliott Hall N647, In Person  
Term Based; Carolyn Berger ; 3 cr.

**5415 Child and Adolescent Development and Counseling**

(A-F or Audit; Prereq: Grad student or MEd student or  
K-12 [counseling endorsement or licensure] student)  
16389 001 LEC, 11:15-15:20 T, Peik Gymnasium G65, In  
Person Term Based; Marguerite Ohrtman ; 4 cr.

**5436 Crisis Management and Consulting in Schools**

(A-F or Audit; Prereq: CSPP grad student in school  
counselor program or instr consent)  
15531 001 LEC, 08:15-10:30 T, Peik Gymnasium G65, In  
Person Term Based; Marguerite Ohrtman ; 3 cr.

**5609 Family-centered Services**

(A-F or Audit; )  
15530 001 LEC, 16:40-19:20 T, Appleby Hall 223, In Person  
Term Based; Brenna Rudolph ; 3 cr.

**5613 Foundations of Special Education I**

(A-F or Audit; DSJ)  
15267 001 LEC, 13:00-14:15 TTh, Nicholson Hall 125, In  
Person Term Based; Kathy Seifert ; 3 cr.  
15907 003 LEC, 16:40-19:20 T, Peik Hall 225, In Person  
Term Based; Michelle Marchant-Wood ; 3 cr.

**5614W Assessment and Due Process in Special Education**

(A-F or Audit; WI)  
16597 001 LEC, 16:40-19:30 Th, Peik Hall 375, In Person  
Term Based; Kathy Seifert ; 3 cr.

**5616W Classroom Management and Behavior Analytic Problem Solving**

(Student Option; WI)  
15264 001 LEC, 14:30-15:45 TTh, Burton Hall 120, In Person  
Term Based; Michelle Marchant-Wood ; 3 cr.  
15908 003 LEC, 16:40-19:20 M, Peik Hall 335, In Person  
Term Based; Maci Brown ; 3 cr.  
16621 002 LEC, 14:30-15:45 TTh, Wulling Hall 220, In  
Person Term Based; Robert Henery ; 3 cr.

**5618 Specialized Interventions for Students With Mild/Moderate Disabilities in Reading & Written Language**

(A-F or Audit; )  
16240 001 DIS, 16:40-19:20 W, Peik Hall 215, In Person  
Term Based; Kari Ross ; 3 cr.

**5625 Education of Infants, Toddlers, and Preschool Children with Disabilities: Introduction**

(A-F or Audit; )  
15265 001 LEC, 16:40-18:20 M, Bruininks Hall 131A,  
16:40-19:20 M, Bruininks Hall 131A, Primarily Online;  
Brenna Rudolph ; 2 cr.

**5631 Module 1: Introduction to Augmentative and Alternative Communication**

(A-F only; )  
16163 001 LEC, Completely Online; Brenna Pham ; 1 cr.

**5632 Module 2: Evidence-based Methods for AAC Assessment and Intervention**

(A-F only; )  
16242 001 LEC, Completely Online; Brenna Pham ; 2 cr.

**5637 Core Practices in Special Education: Foundations of Special Education**

(S-N only; Prereq: Enrolled in Special Ed MEd or  
Special Ed ILP MEd program with EBD Residency-  
Based subplan)  
33404 001 LEC, Completely Online; Ashley Evans ; 1 cr.

**5638 Core Practices in Special Education: IEP Writing**

(S-N only; )  
35404 001 LEC, Completely Online; Ashley Evans ; 1 cr.

**5641 Foundations of Deaf Education**

(A-F only; )  
16528 001 LEC, 17:40-20:20 M, Wulling Hall 240, In Person  
Term Based; Brynn Roemen ; 3 cr.

**5643 Seminar: Identity, Culture and Diversity in Deaf Education**

(A-F only; )  
16671 001 DIS, 16:40-18:20 T, Smith Hall 121, In Person  
Term Based; Anna Broadrick ; 2 cr.

**5644 Early Childhood Language and Literacy Development and Best Practices: Deaf and Hard of Hearing**

(A-F only; Prereq: Preservice teacher in deaf education  
licensing program or instr consent)  
16529 001 LEC, 16:40-19:20 W, Appleby Hall 223, In Person  
Term Based; Brynn Roemen ; 3 cr.

**5652 Incorporating Academic ASL in the Classroom: Deaf and Hard of Hearing**

(A-F only; )  
16672 001 LEC, 17:10-19:50 W, Bruininks Hall 119,  
In Person Term Based; Janet Caven, Madelaine  
Frederickson ; 3 cr.

**5653 ASL/English Structure and Application**

(A-F only; )  
16530 001 LEC, 17:10-20:00 Th, Lrng & Environmental Sci  
140A, In Person Term Based; Janet Caven ; 3 cr.

**5657 Interventions for Behavioral Problems in School Settings**

(A-F or Audit; )  
16486 001 LEC, 16:40-19:20 T, Peik Hall 215, In Person  
Term Based; Robert Henery ; 3 cr.

**5659 Foundations of Behavior Analysis**

(A-F only; )  
16673 001 LEC, 14:30-17:30 M, Kolthoff Hall 133, In Person  
Term Based; Rebecca Kolb ; 3 cr.

**5661 Introduction to Autism Spectrum Disorder**

(A-F only; )  
15758 001 LEC, 16:40-19:20 W, Wulling Hall 220, In Person  
Term Based; Kelly Kautz ; 3 cr.

**5663 Assessment and Intervention for Individuals with Autism Spectrum Disorder**

(A-F only; Prereq: 5661, Special Ed grad or licensure  
student or instr consent)  
33386 001 LEC, 16:40-19:20 Th, Wulling Hall 240, In Person  
Term Based; Savana Bak ; 3 cr.

**5699 Experimental Teaching Seminar**

(A-F only; Prereq: instr consent)  
16342 001 LEC, 16:40-18:20 Th, Peik Hall 215, In Person  
Term Based; Brenna Rudolph ; 2 cr.

**5701 Practicum: Field Experience in General Education - Inclusive Classrooms**

(S-N only; )  
15437 001 FWK, In Person Term Based; Charissa O'Neill ;  
1-2 cr.

**5704 Practicum: Special Education Field Experience in Middle and Secondary School Classrooms**

(S-N only; )  
16356 001 FWK, In Person Term Based; Charissa O'Neill ;  
1-2 cr.  
16397 002 FWK, In Person Term Based; Charissa O'Neill ;  
1-2 cr.  
16398 003 FWK, In Person Term Based; Janet Caven ; 1-2  
cr.  
16399 004 FWK, In Person Term Based; Janet Caven ; 1-2  
cr.

**5705 Practicum: Special Ed Field Experience in Early Childhood SpEd (ECSE) & Elementary School Classrooms**

(S-N only; )  
16193 001 FWK, In Person Term Based; Charissa O'Neill ;  
1-2 cr.  
16194 002 FWK, In Person Term Based; Charissa O'Neill ;  
1-2 cr.  
16440 003 FWK, In Person Term Based; Janet Caven ; 1-2  
cr.  
16441 004 FWK, In Person Term Based; Janet Caven ; 1-2  
cr.

**5706 Practicum in Moderate to Severe Developmental Disabilities**

(S-N only; )  
34922 001 LEC, 15:35-16:25 Th, Room TBA, In Person Term  
Based; Meets With: 001 EPSY 5761001 EPSY 5762001  
EPSY 5741001 EPSY 5742001 EPSY 5707002 EPSY  
5741001 EPSY 5756; Robert Henery ; 2 cr.

**5707 Practicum in Moderate to Severe Learning Disabilities**

(S-N only; )  
16502 001 FWK, 15:35-16:25 Th, Room TBA, Independent/  
Directed Study; Meets With: 001 EPSY 5761001 EPSY  
5762001 EPSY 5741001 EPSY 5742002 EPSY 5741001  
EPSY 5756001 EPSY 5706; Robert Henery ; 3 cr.

**5741 Student Teaching: Academic and Behavioral Strategist**

(S-N only; Prereq: Special education licensure program or instr consent)

16341 001 FWK, 15:35-16:25 Th, Room TBA, In Person Term Based; Meets With: 001 EPSY 5761001 EPSY 5762001 EPSY 5742001 EPSY 5707002 EPSY 5741001 EPSY 5756001 EPSY 5706; Robert Henery ; 3-6 cr.

**5742 Student Teaching: Autism Spectrum Disorders**

(S-N only; )

16353 001 FWK, 15:35-16:25 Th, Room TBA, In Person Term Based; Meets With: 001 EPSY 5761001 EPSY 5762001 EPSY 5741001 EPSY 5707002 EPSY 5741001 EPSY 5756001 EPSY 5706; Robert Henery ; 6 cr.

**5756 Student Teaching: Developmental Disabilities, Moderate/Severe**

(A-F or Audit; Prereq: Completion of all licensure coursework, instr consent)

16730 001 FWK, 15:35-16:25 Th, Room TBA, In Person Term Based; Meets With: 001 EPSY 5762001 EPSY 5762001 EPSY 5741001 EPSY 5742001 EPSY 5707002 EPSY 5741001 EPSY 5706; Robert Henery ; 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)

15938 001 FWK, 15:35-16:25 Th, Room TBA, In Person Term Based; Meets With: 001 EPSY 5762001 EPSY 5741001 EPSY 5742001 EPSY 5707002 EPSY 5741001 EPSY 5756001 EPSY 5706; Robert Henery ; 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)

15939 001 FWK, 15:35-16:25 Th, Room TBA, In Person Term Based; Meets With: 001 EPSY 5761001 EPSY 5741001 EPSY 5742001 EPSY 5707002 EPSY 5741001 EPSY 5756001 EPSY 5706; Robert Henery ; 3 cr.

**5763 Practicum in Special Education: Behavior Intervention Planning and Implementation**

(S-N only; )

33405 001 FWK, In Person Term Based; Robert Henery ; 2 cr.

**5802 History & Scientific Bases of Psychology**

(A-F only; )

16545 001 LEC, Completely Online; Elyse Farnsworth ; 3 cr.

**5991 Independent Study in Educational Psychology**

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

15373 001 IND, 16:40-18:20 Th, Peik Hall 215, In Person Term Based; Meets With: 006 EPSY 5991; Michelle Marchant-Wood ; 1-8 cr.  
15374 002 IND, Independent/Directed Study; 1-8 cr.  
15375 003 IND, Independent/Directed Study; 1-8 cr.  
15376 004 IND, Independent/Directed Study; 1-8 cr.  
16327 005 IND, Independent/Directed Study; 1-8 cr.  
16600 006 IND, 16:40-18:20 Th, Peik Hall 215, In Person Term Based; Meets With: 001 EPSY 5991; Michelle Marchant-Wood ; 1-8 cr.**Educational/Human Development (EDHD)****1525V First-Year Inquiry: Multidisciplinary Ways of Knowing**

(A-F only; Prereq: CEHD student, honors, 1st-term frWI)

16596 001 LEC, 11:15-13:10 TTh, Vincent Hall 206, In Person Term Based; Daheia Barr-Anderson ; 4 cr.

**1525W First-Year Inquiry: Multidisciplinary Ways of Knowing**

(A-F only; WI)

16417 001 LEC, 13:25-15:20 TTh, Appleby Hall 102, In Person Term Based; Ezra Hyland ; 4 cr.  
16418 002 LEC, 09:05-11:00 MW, Peik Hall 155, In Person Term Based; Gary Peter ; 4 cr.  
16419 003 LEC, 09:05-11:00 MW, Appleby Hall 11, In Person Term Based; Jason Stahl ; 4 cr.  
16420 004 LEC, 09:05-11:00 MW, Appleby Hall 204, In Person Term Based; Margaret Kelly ; 4 cr.  
16423 006 LEC, 11:15-13:10 WF, Burton Hall 125, In Person Term Based; Rose Vukovic ; 4 cr.  
16424 007 LEC, 11:15-13:10 MW, Bruininks Hall 131A, In Person Term Based; Rashne Jehangir ; 4 cr.  
16425 008 LEC, 11:15-13:10 MW, Appleby Hall 219, In Person Term Based; Heather Dorsey ; 4 cr.  
16426 009 LEC, 11:15-13:10 MW, Peik Hall 155, In Person Term Based; Gary Peter ; 4 cr.  
16427 010 LEC, 11:15-13:10 TTh, Bruininks Hall 117, In Person Term Based; Margaret Kelly ; 4 cr.  
16428 011 LEC, 13:25-15:20 MW, Appleby Hall 319, In Person Term Based; Jason Stahl ; 4 cr.  
16429 012 LEC, 13:25-15:20 MW, Nicholson Hall 315, In Person Term Based; Michael Baizerman ; 4 cr.  
16430 013 LEC, 13:25-15:20 MW, Appleby Hall 303, In Person Term Based; Nate Whittaker ; 4 cr.  
16431 014 LEC, 09:35-11:30 TTh, Rutan Hall B36, In Person Term Based; Molly Rojas Collins ; 4 cr.  
16432 015 LEC, 11:15-13:10 TTh, Keller Hall 2-260, In Person Term Based; Michael Stebleton ; 4 cr.  
16433 017 LEC, 09:05-11:00 TTh, Appleby Hall 3, In Person Term Based; Nate Whittaker ; 4 cr.  
16434 018 LEC, 09:05-11:00 TTh, Akerman Hall 215, In Person Term Based; Ezra Hyland ; 4 cr.  
33592 019 LEC, 11:15-13:10 TTh, Peik Hall 315, In Person Term Based; Annie Mason ; 4 cr.  
33594 021 LEC, 15:35-17:30 TTh, Appleby Hall 319, In Person Term Based; Elizabeth Criswell ; 4 cr.**1620 Current Topics: Strategies for Student Success**

(Student Option; )

32849 001 LEC, 12:20-14:15 Th, Bruininks Hal 121, In Person Term Based; Arien Telles ; 1-4 cr.  
32850 002 LEC, 12:20-14:15 M, Kolthoff Hall 134, In Person Term Based; Jonathan Andicoechea ; 1-4 cr.  
32959 003 LEC, 14:30-16:25 Th, Vincent Hall 313, In Person Term Based; Jonathan Andicoechea ; 1-4 cr.  
32960 004 LEC, 14:30-16:25 Th, Smith Hall 111, In Person Term Based; Jesse Lewis ; 1-4 cr.  
32961 005 LEC, 09:05-11:00 F, Appleby Hall 223, In Person Term Based; Jesse Lewis ; 1-4 cr.**1701 Identity, Culture, and College Success**

(A-F only; Prereq: TRIO or PES student)

16098 001 DIS, 14:30-16:25 T, Appleby Hall 302, In Person Term Based; Ruth Cardenas ; 1 cr.  
16099 002 DIS, 14:30-16:25 T, Rapson Hall 100, In Person Term Based; Ryan Hanson ; 1 cr.  
16100 003 DIS, 14:30-16:25 T, Elliott Hall N647, In Person Term Based; Ah Vang-Lo ; 1 cr.  
16101 004 DIS, 14:30-16:25 W, Nicholson Hall 115, In Person Term Based; Ruth Cardenas ; 1 cr.  
16140 005 DIS, 14:30-16:25 W, Peik Hall 215, In Person Term Based; Ryan Hanson ; 1 cr.  
16141 006 DIS, 14:30-16:25 W, Amundson Hall 104, In Person Term Based; Jessica Thompson ; 1 cr.**1904 Globalizing Your Undergraduate Curriculum**

(A-F only; GP,IP)

33510 001 LEC, 17:30-20:30 T, Peters Hall 145, In Person Term Based; Irene Duranczyk ; 3 cr.

**Electrical & Computer Eng (EE)****1301 Introduction to Computing Systems**

(Student Option; Prereq: concurrent registration is required (or allowed) in MATH 1271 or concurrent registration is required (or allowed) in MATH 1371)

24652 001 LEC, 14:30-15:45 TTh, Smith Hall 231, In Person Term Based; John Sartori ; 4 cr.  
24653 002 LAB, 14:30-17:30 M, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.  
25375 003 LAB, 17:45-20:45 M, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.  
25376 007 LAB, 13:25-16:25 F, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.  
26626 004 LAB, 15:30-18:30 W, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.  
26773 008 LAB, 17:45-20:45 Th, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.

35309 009 LAB, 16:00-19:00 T, Keller Hall 4-138, In Person Term Based; John Sartori ; 4 cr.

**1701 Climate Crisis: Implementing Solutions**

(Student Option; TS)

26799 001 LEC, Completely Online; Ned Mohan ; 3 cr.

**1703 Laboratory for Climate Crisis: Implementing Solutions**

(Student Option; Prereq: EE 1701 or concurrent registration is required (or allowed) in EE 1701PHYS)

27003 001 LAB, 15:45-17:45 M, Keller Hall 3-146, In Person Term Based; Ned Mohan ; 1 cr.  
27004 002 LAB, 15:45-17:45 W, Keller Hall 3-146, In Person Term Based; Ned Mohan ; 1 cr.  
27006 004 LAB, 15:45-17:45 F, Keller Hall 3-146, In Person Term Based; Ned Mohan ; 1 cr.**2011 Linear Systems, Circuits, and Electronics**

(Student Option; Prereq: 2001)

24338 001 LEC, 09:05-09:55 MWF, Akerman Hall 209, In Person Term Based; Bin Ma ; 3 cr.  
24339 002 DIS, 14:30-15:20 M, Akerman Hall 215, In Person Term Based; Bin Ma ; 3 cr.  
24340 004 DIS, 15:35-16:25 M, Amundson Hall 156, In Person Term Based; Bin Ma ; 3 cr.**2015 Signals, Circuits and Electronics I**

(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))

34098 001 LEC, 12:20-13:10 MWF, Amundson Hall B75, In Person Term Based; Emad Ebbini ; 4 cr.  
34101 003 LAB, 10:10-12:05 W, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34102 004 LAB, 13:25-15:20 W, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34103 005 LAB, 15:35-17:30 W, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34104 006 LAB, 08:00-09:55 Th, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34105 007 LAB, 18:50-20:45 Th, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34109 008 LAB, 12:20-14:15 Th, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34110 009 LAB, 14:30-16:25 Th, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34111 010 LAB, 10:10-12:05 F, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34112 011 LAB, 15:35-17:30 F, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34113 012 LAB, 08:00-09:55 F, Keller Hall 3-136, In Person Term Based; Emad Ebbini ; 4 cr.  
34114 020 DIS, 14:30-15:20 T, Ford Hall 115, In Person Term Based; 4 cr.  
34115 021 DIS, 12:20-13:10 T, Ford Hall 151, In Person Term Based; 4 cr.  
34116 022 DIS, 13:25-14:15 T, Ford Hall 115, In Person Term Based; 4 cr.  
34117 023 DIS, 11:15-12:05 T, Bruininks Hall 432, In Person Term Based; 4 cr.**2301 Introduction to Digital System Design**

(Student Option; Prereq: MATH 1272 or MATH 1372 or MATH 1572)

24211 001 LEC, 09:45-11:00 TTh, Fraser Hall 102, In Person Term Based; Marc Riedel ; 4 cr.  
24212 002 LAB, 10:10-12:05 M, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24213 003 LAB, 13:25-15:20 M, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24214 004 LAB, 15:35-17:30 M, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24215 005 LAB, 11:15-13:10 T, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24216 006 LAB, 13:25-15:20 T, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24217 007 LAB, 15:35-17:30 T, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24218 009 LAB, 10:10-12:05 F, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
24219 010 LAB, 13:25-15:20 W, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
25974 020 DIS, 12:20-13:10 Th, Amundson Hall 120, In Person Term Based; 4 cr.  
25975 021 DIS, 11:15-12:05 T, Amundson Hall 116, In Person Term Based; 4 cr.  
25976 022 DIS, 14:30-15:20 Th, Amundson Hall 120, In Person Term Based; 4 cr.  
25977 023 DIS, 13:25-14:15 Th, Amundson Hall 120, In Person Term Based; 4 cr.

26294 012 LAB, 08:00-09:55 M, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
26610 013 LAB, 13:25-15:20 F, Keller Hall 2-178, In Person Term Based; Marc Riedel ; 4 cr.  
26612 024 DIS, 11:15-12:05 Th, Bruininks Hall 420B, In Person Term Based; 4 cr.

### 2361 Introduction to Microcontrollers

(Student Option; Prereq: 2301, [1301 or CSCI 1113 or CSCI 1901])  
24234 001 LEC, 10:10-11:00 MWF, Peik Hall 28, In Person Term Based; Thomas Posbergh ; 4 cr.  
24586 003 LAB, 16:00-17:55 T, Keller Hall 2-182, In Person Term Based; Thomas Posbergh ; 4 cr.  
24587 005 LAB, 15:35-17:30 W, Keller Hall 2-182, In Person Term Based; Thomas Posbergh ; 4 cr.  
24588 006 LAB, 11:15-13:10 Th, Keller Hall 2-182, In Person Term Based; Thomas Posbergh ; 4 cr.  
24876 009 LAB, 13:25-15:20 F, Keller Hall 2-182, In Person Term Based; Thomas Posbergh ; 4 cr.  
25978 020 DIS, 13:25-14:15 M, Keller Hall 4-138, In Person Term Based; Thomas Posbergh ; 4 cr.  
26096 022 DIS, 13:25-14:15 T, Keller Hall 4-138, In Person Term Based; Changhyun Choi ; 4 cr.

### 3005 Fundamentals of Electrical Engineering

(Student Option; Prereq: Math 2243, Phys 1302; not for EE majors)  
24224 001 LEC, 14:30-15:20 MWThF, Keller Hall 3-210, 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)  
24225 001 LAB, 09:05-11:00 M, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24226 002 LAB, 11:15-13:10 M, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24227 004 LAB, 15:35-17:30 M, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24228 006 LAB, 08:00-09:55 T, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24229 007 LAB, 10:10-12:05 T, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24230 008 LAB, 12:20-14:15 T, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24231 009 LAB, 14:30-16:25 T, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24232 010 LAB, 16:40-18:35 T, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
24654 005 LAB, 17:45-19:40 M, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
25671 014 LAB, 10:10-12:05 Th, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
25672 015 LAB, 16:40-18:35 Th, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
26250 013 LAB, 09:05-11:00 W, Keller Hall 3-144, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
26329 012 LAB, 08:00-09:55 W, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.  
26347 016 LAB, 12:20-14:15 F, Keller Hall 3-136, In Person Term Based; Jeong-Hyun Cho ; 1 cr.

### 3015 Signals and Systems

(Student Option; Prereq: [2011, CSE Upper Division] or dept consent)  
24341 001 LEC, 10:10-11:00 MWF, Tate Hall 105, In Person Term Based; Nicola Elia ; 3 cr.  
24342 002 DIS, 11:15-12:05 Th, Keller Hall 3-170, In Person Term Based; 3 cr.  
24343 003 DIS, 12:35-13:25 Th, Keller Hall 3-170, In Person Term Based; 3 cr.  
24344 005 DIS, 12:20-13:10 F, Keller Hall 3-170, In Person Term Based; 3 cr.  
24345 006 DIS, 13:25-14:15 F, Keller Hall 3-170, In Person Term Based; 3 cr.  
26746 007 DIS, 14:30-15:20 F, Keller Hall 3-170, In Person Term Based; 3 cr.

### 3025 Statistical Methods in Electrical and Computer Engineering

(Student Option; Prereq: [3015, CSE upper division] or instr approval)  
24221 001 LEC, 13:00-14:15 TTh, 10 Church Street SE 100, In Person Term Based; Jarvis Haupt ; 3 cr.  
24222 002 DIS, 12:20-13:10 M, Keller Hall 3-170, In Person Term Based; 3 cr.  
24223 003 DIS, 13:25-14:15 M, Keller Hall 3-170, In Person Term Based; 3 cr.  
25382 004 DIS, 10:10-11:00 T, Keller Hall 3-170, In Person Term Based; 3 cr.

### 3041 Industrial Assignment I

(A-F only; Prereq: [EE or CompE upper div], enrolled in ECE co-op program)

25694 001 FWK, 00:00-00:00 , Independent/Directed Study; Ted Higman ; 2 cr.

### 3101 Circuits and Electronics Laboratory I

(Student Option; Prereq: [2002, [3115 or concurrent registration is required (or allowed) in 3115], CSE] or dept consent)  
24348 001 LAB, 11:15-14:15 M, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
24349 003 LAB, 17:45-20:45 M, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
24350 004 LAB, 08:00-11:00 T, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
24351 006 LAB, 11:15-14:15 T, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
24352 008 LAB, 11:15-14:15 W, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
24353 009 LAB, 14:30-17:30 W, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
25384 002 LAB, 14:30-17:30 M, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
35228 011 LAB, 14:30-17:30 T, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.  
35229 012 LAB, 17:45-20:45 W, , In Person Term Based; Paul Imbertson ; 2 cr.  
35230 013 LAB, 08:00-11:00 Th, Keller Hall 3-144, In Person Term Based; Paul Imbertson ; 2 cr.

### 3102 Circuits and Electronics Laboratory II

(Student Option; Prereq: [3101 or CSE or dept consent], attendance first day of class.)  
24354 001 DIS, 14:30-15:25 T, Keller Hall 3-230, In Person Term Based; Ted Higman ; 2 cr.  
24655 005 LAB, 11:15-14:15 F, Keller Hall 3-144, In Person Term Based; Ted Higman ; 2 cr.  
25387 004 LAB, 14:30-17:30 Th, Keller Hall 3-144, In Person Term Based; Ted Higman ; 2 cr.  
26419 002 LAB, 17:40-20:40 T, Keller Hall 3-144, In Person Term Based; Ted Higman ; 2 cr.  
26747 006 LAB, 14:30-17:30 F, Keller Hall 3-144, In Person Term Based; Ted Higman ; 2 cr.

### 3115 Analog Electronics

(Student Option; Prereq: [3015 or concurrent registration is required (or allowed) in 3015, CSE upper division] or dept consent)  
24356 001 LEC, 09:05-09:55 MWF, Bruininks Hall 220, In Person Term Based; Ted Higman ; 3 cr.  
24357 002 DIS, 13:25-14:15 W, Keller Hall 3-170, In Person Term Based; 3 cr.  
24358 003 DIS, 13:25-14:15 Th, Keller Hall 3-170, In Person Term Based; 3 cr.  
24359 004 DIS, 14:30-15:20 Th, Keller Hall 3-170, In Person Term Based; 3 cr.  
24360 005 DIS, 14:30-15:20 W, Keller Hall 3-170, In Person Term Based; 3 cr.  
26248 007 DIS, 12:20-13:10 W, Keller Hall 3-170, In Person Term Based; 3 cr.

### 3161 Semiconductor Devices

(Student Option; Prereq: Upper div CSE, 2011, Phys 1302, Phys 2303 or Chem 1022)  
24393 001 LEC, 11:15-12:30 TTh, Bruininks Hall 220, In Person Term Based; Sarah Swisher ; 3 cr.  
24394 002 DIS, 13:25-14:15 T, Amundson Hall 124, In Person Term Based; 3 cr.  
24395 003 DIS, 15:35-16:25 T, Mechanical Engineering 102, In Person Term Based; 3 cr.  
24826 004 DIS, 16:00-16:50 W, Amundson Hall 240, In Person Term Based; 3 cr.

### 3601 Transmission Lines, Fields, and Waves

(Student Option; Prereq: [2011, [Math 2243 or Math 2373 or Math 2573], [Phys 1302 or Phys 1402], CSE] or dept consent)  
24346 001 LEC, 11:15-12:05 MWF, Armory Building 202, In Person Term Based; Abolghassem Mahmoudi ; 3 cr.  
24347 002 DIS, 13:25-14:15 M, Amundson Hall 120, In Person Term Based; Abolghassem Mahmoudi ; 3 cr.  
25383 004 DIS, 12:20-13:10 W, Akerman Hall 313, In Person Term Based; Abolghassem Mahmoudi ; 3 cr.

### 3990 Curricular Practical Training

(S-N only; Prereq: instr consent, undergrad EE or CompE major)  
25675 001 FWK, 00:00-00:00 , Independent/Directed Study; James Leger ; 1-2 cr.

### 4044 Industrial Assignment III

(A-F only; Prereq: 4043W)  
25692 001 FWK, 00:00-00:00 , Independent/Directed Study; Ted Higman ; 2 cr.

### 4231 Linear Control Systems: Designed by Input/Output Methods

(Student Option; Prereq: [3015, [upper div CSE or grad student in CSE major]] or instr consent)  
24371 001 LEC, 13:25-14:15 MWF, Keller Hall 3-210, In Person Term Based; Meets With: 001 AEM 4321; Peter Seiler Jr ; 3 cr.

### 4235 Linear Control Systems Laboratory

(Student Option; Prereq: 4231 or concurrent registration is required (or allowed) in 4231)  
24372 003 LAB, 14:30-16:25 M, Keller Hall 2-188, In Person Term Based; murti salapaka ; 1 cr.  
25385 002 LAB, 11:15-13:10 T, Keller Hall 2-188, In Person Term Based; murti salapaka ; 1 cr.  
25386 004 LAB, 14:30-16:25 F, Keller Hall 2-188, In Person Term Based; murti salapaka ; 1 cr.  
26529 001 LAB, 14:30-16:25 W, Keller Hall 2-188, In Person Term Based; murti salapaka ; 1 cr.

### 4301 Digital Design With Programmable Logic

(Student Option; Prereq: 2301, [1301 or CSCI 1113 or CSCI 1901])  
24387 001 LEC, 09:05-09:55 MWF, Peik Hall 28, In Person Term Based; Thomas Posbergh ; 4 cr.  
24388 002 LAB, 14:30-16:25 W, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
24389 004 LAB, 10:10-12:05 Th, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
24391 006 LAB, 10:10-12:05 F, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.  
24840 007 LAB, 13:25-15:20 F, Keller Hall 2-172, In Person Term Based; Thomas Posbergh ; 4 cr.

### 4363 Computer Architecture and Machine Organization

(Student Option; Prereq: 2361)  
24882 001 LEC, 11:15-12:30 TTh, Keller Hall 3-210, In Person Term Based; Meets With: 001 CSCI 4203; Ulya Karpuzcu ; 4 cr.  
26454 883 LEC, 11:15-12:30 TTh, ONLINE, Completely Online; Ulya Karpuzcu ; 4 cr.

### 4389W Introduction to Predictive Learning

(Student Option; Prereq: [3025, ECE student] or STAT 3022; computer programming or MATLAB or similar environment is recommended for ECE studentsW)  
33407 001 LEC, 14:30-15:45 MW, Keller Hall 3-111, In Person Term Based; Vladimir Cherkassky ; 3 cr.

### 4501 Communications Systems

(Student Option; Prereq: 3025)  
24548 001 LEC, 08:15-09:30 TTh, Akerman Hall 209, In Person Term Based; Fikri Goksu ; 3 cr.

### 4505 Communications Systems Laboratory

(Student Option; Prereq: 4501 or concurrent registration is required (or allowed) in 4501)  
24549 001 LAB, 11:15-13:10 T, Keller Hall 2-140, In Person Term Based; Fikri Goksu ; 1 cr.  
26444 004 LAB, 12:20-14:15 Th, Keller Hall 2-140, In Person Term Based; Fikri Goksu ; 1 cr.

### 4541 Digital Signal Processing

(Student Option; Prereq: [3015, 3025] or instr consent prereq: [3015, 3025] or instr consent)  
24233 001 LEC, 09:45-11:00 MW, Akerman Hall 225, In Person Term Based; Fikri Goksu ; 3 cr.

### 4623 Introduction to Modern Optics

(Student Option; Prereq: [Phys 2503 or Phys 2303] and [Math 2374 or MATH 2263 or MATH 2573H]; instr consent.)  
34388 001 LEC, 09:45-11:00 TTh, Tate Hall B45, In Person Term Based; Meets With: 100 PHYS 4623; Sudhakar Prasad ; 3 cr.

### 4721 Introduction to Power System Analysis

(Student Option; Prereq: 2011)  
25892 001 LEC, 13:00-14:15 TTh, Vincent Hall 16, In Person Term Based; Sairaj Dhople ; 3 cr.

### 4722 Power System Analysis Laboratory

(Student Option; Prereq: 4721 or concurrent registration is required (or allowed) in 4721)  
25893 001 LAB, 15:35-17:30 T, Keller Hall 3-170, In Person Term Based; Sairaj Dhople ; 1 cr.  
25894 002 LAB, 10:10-12:05 W, Keller Hall 3-170, In Person Term Based; Sairaj Dhople ; 1 cr.

### 4741 Power Electronics

(Student Option; Prereq: 3015, 3115)

24386 001 LEC, 11:15-12:30 TTh, Akerman Hall 209, 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)

25419 001 LAB, 13:25-15:20 W, Keller Hall 3-146, In Person Term Based; Jungwon Choi ; 1 cr.  
 25420 002 LAB, 15:35-17:30 Th, Keller Hall 3-146, In Person Term Based; Jungwon Choi ; 1 cr.  
 27136 003 LAB, 15:35-17:30 T, Keller Hall 3-146, In Person Term Based; Jungwon Choi ; 1 cr.

### 4951W Senior Design Project

(Student Option; Prereq: 3015, 3115, 3102, attendance first day of classWI)

24399 001 LEC, 14:30-15:45 TTh, Akerman Hall 319, In Person Term Based; William Robbins ; 4 cr.

### 4970 Directed Study

(Student Option; Prereq: Cr ar [may be repeated for cr]; dept consent)

24400 001 IND, 00:00-00:00 , , In Person Term Based; Jeong-Hyun Cho ; 1-3 cr.  
 25217 002 IND, 00:00-00:00 , , In Person Term Based; Kia Bazargan ; 1-3 cr.  
 25218 003 IND, 00:00-00:00 , , In Person Term Based; Stephen Campbell ; 1-3 cr.  
 25219 004 IND, 00:00-00:00 , , In Person Term Based; Vladimir Cherkassky ; 1-3 cr.  
 25220 005 IND, 00:00-00:00 , , In Person Term Based; Martina Cardone ; 1-3 cr.  
 25221 006 IND, 00:00-00:00 , , In Person Term Based; Philip Cohen ; 1-3 cr.  
 25222 007 IND, 00:00-00:00 , , In Person Term Based; Rhonda Franklin ; 1-3 cr.  
 25223 008 IND, 00:00-00:00 , , In Person Term Based; Emad Ebbini ; 1-3 cr.  
 25224 009 IND, 00:00-00:00 , , In Person Term Based; Douglas Ernie ; 1-3 cr.  
 25225 010 IND, 00:00-00:00 , , In Person Term Based; Changhyun Choi ; 1-3 cr.  
 25226 011 IND, 00:00-00:00 , , In Person Term Based; Mingyi Hong ; 1-3 cr.  
 25227 012 IND, 00:00-00:00 , , In Person Term Based; Massoud Amin ; 1-3 cr.  
 25228 013 IND, 00:00-00:00 , , In Person Term Based; Anand Gopinath ; 1-3 cr.  
 25229 014 IND, 00:00-00:00 , , In Person Term Based; Ramesh Harjani ; 1-3 cr.  
 25230 015 IND, 00:00-00:00 , , In Person Term Based; Mehmet Akcakaya ; 1-3 cr.  
 25231 016 IND, 00:00-00:00 , , In Person Term Based; Ted Higman ; 1-3 cr.  
 25234 019 IND, 00:00-00:00 , , In Person Term Based; Paul Imbertson ; 1-3 cr.  
 25235 020 IND, 00:00-00:00 , , In Person Term Based; David Orser ; 1-3 cr.  
 25239 024 IND, 00:00-00:00 , , In Person Term Based; Mostafa Kaveh ; 1-3 cr.  
 25243 028 IND, 00:00-00:00 , , In Person Term Based; Chris H. Kim ; 1-3 cr.  
 25246 031 IND, 00:00-00:00 , , In Person Term Based; James Leger ; 1-3 cr.  
 25247 032 IND, 00:00-00:00 , , In Person Term Based; David Lilja ; 1-3 cr.  
 25248 033 IND, 00:00-00:00 , , In Person Term Based; Zhi-Quan Luo ; 1-3 cr.  
 25249 034 IND, 00:00-00:00 , , In Person Term Based; Ned Mohan ; 1-3 cr.  
 25252 037 IND, 00:00-00:00 , , In Person Term Based; Sang-Hyun Oh ; 1-3 cr.  
 25254 039 IND, 00:00-00:00 , , In Person Term Based; Keshab Parhi ; 1-3 cr.  
 25257 042 IND, 00:00-00:00 , , In Person Term Based; Thomas Posbergh ; 1-3 cr.  
 25258 043 IND, 00:00-00:00 , , In Person Term Based; Marc Riedel ; 1-3 cr.  
 25259 044 IND, 00:00-00:00 , , In Person Term Based; William Robbins ; 1-3 cr.  
 25263 048 IND, 00:00-00:00 , , In Person Term Based; P Ruden ; 1-3 cr.  
 25264 049 IND, 00:00-00:00 , , In Person Term Based; Sachin Sapatnekar ; 1-3 cr.  
 25265 050 IND, 00:00-00:00 , , In Person Term Based; murti salapaka ; 1-3 cr.  
 25267 052 IND, 00:00-00:00 , , In Person Term Based; Gerald Sobelman ; 1-3 cr.  
 25268 053 IND, 00:00-00:00 , , In Person Term Based; Bethanie Stadler ; 1-3 cr.  
 25269 054 IND, 00:00-00:00 , , In Person Term Based; Joseph Talghader ; 1-3 cr.  
 25272 057 IND, 00:00-00:00 , , In Person Term Based; Randall Victora, Jianping Wang ; 1-3 cr.

25487 058 IND, 00:00-00:00 , , In Person Term Based; Jianping Wang ; 1-3 cr.

### 4981H Senior Honors Project I

(Student Option; Prereq: ECE honors, sr, instr consent)  
 24401 001 IND, 14:30-16:25 T, Appleby Hall 11, 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)

26463 001 FWK, 00:00-00:00 , , In Person Term Based; murti salapaka ; 1 cr.

### 5163 Semiconductor Properties and Devices I

(Student Option; Prereq: [3161, 3601, CSE grad student] or dept consent)

24361 001 LEC, 11:15-12:30 MW, Akerman Hall 317, In Person Term Based; Bethanie Stadler ; 3 cr.

### 5171 Microelectronic Fabrication

(Student Option; Prereq: CSE grad student or dept consent)

24362 001 LEC, 13:00-14:15 TTh, Keller Hall 3-125, In Person Term Based; Stephen Campbell ; 4 cr.  
 25379 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; Stephen Campbell ; 4 cr.

### 5173 Basic Microelectronics Laboratory

(Student Option; Prereq: [[5171 or concurrent registration is required (or allowed) in 5171], CSE grad student] or dept consent)

24363 001 LAB, 13:25-17:30 M, Keller Hall 1-165, In Person Term Based; Stephen Campbell ; 1 cr.  
 24364 003 LAB, 13:25-17:30 W, Keller Hall 1-165, In Person Term Based; Stephen Campbell ; 1 cr.

### 5231 Linear Systems and Optimal Control

(Student Option; Prereq: [3015, CSE grad student] or instr consent)

24373 001 LEC, 14:30-15:45 MW, Mechanical Engineering 212, In Person Term Based; Meets With: 001 AEM 5321; Donatello Materassi ; 3 cr.  
 25373 883 LEC, 14:30-15:45 MW, ONLINE, Completely Online; Donatello Materassi ; 3 cr.

### 5239 Introduction to Nonlinear Optimization

(Student Option; Prereq: [3025, Math 2373, Math 2374, CSE grad student] or dept consent)

26578 001 LEC, 14:30-15:45 TTh, Mechanical Engineering 212, In Person Term Based; Mingyi Hong ; 3 cr.  
 26594 883 LEC, 14:30-15:45 TTh, ONLINE, Completely Online; Mingyi Hong ; 3 cr.

### 5251 Optimal Filtering and Estimation

(Student Option; Prereq: [[MATH 2243, STAT 3021] or equiv], CSE grad student] or dept consent; 3025, 4231 recommended)

25904 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 AEM 5451; Demoz Gebre Egziabher ; 3 cr.  
 25919 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; Demoz Gebre Egziabher ; 3 cr.

### 5301 VLSI Design Automation I

(Student Option; Prereq: [2301, CSE grad student] or dept consent)

24392 001 LEC, 13:00-14:15 TTh, Keller Hall 3-111, In Person Term Based; Kia Bazargan ; 3 cr.  
 25366 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; Kia Bazargan ; 3 cr.

### 5323 VLSI Design I

(Student Option; Prereq: [2301, 3115, CSE grad student] or dept consent)

24235 001 LEC, 15:35-16:25 MWF, Keller Hall 3-230, In Person Term Based; Chris H. Kim ; 3 cr.  
 25839 883 LEC, 15:35-16:25 MWF, ONLINE, Completely Online; Chris H. Kim ; 3 cr.

### 5333 Analog Integrated Circuit Design

(Student Option; Prereq: [3115, CSE grad student] or dept consent)

26649 001 LEC, 08:15-09:30 TTh, Keller Hall 3-125, In Person Term Based; Ramesh Harjani ; 3 cr.  
 26719 883 LEC, 08:15-09:30 TTh, ONLINE, Completely Online; Ramesh Harjani ; 3 cr.

### 5364 Advanced Computer Architecture

(Student Option; Prereq: [[4363 or CSci 4203], CSE grad student] or dept consent)

25368 883 LEC, 09:45-11:00 TTh, ONLINE, Completely Online; Antonia Zhai ; 3 cr.  
 25980 001 LEC, 09:45-11:00 TTh, Mechanical Engineering 108, In Person Term Based; Meets With: 001 CSCI 5204; Antonia Zhai ; 3 cr.

### 5371 Computer Systems Performance Measurement and Evaluation

(Student Option; Prereq: [4363 or 5361 or CSci 4203 or 5201], [CSE grad student] or dept consent)

26750 883 LEC, 11:15-12:30 MW, ONLINE, Completely Online; David Lilja ; 3 cr.  
 33408 001 LEC, 11:15-12:30 MW, Mechanical Engineering 102, In Person Term Based; David Lilja ; 3 cr.

### 5373 Data Modeling Using R

(A-F only; )

26932 001 LAB, 13:25-15:20 W, Keller Hall 4-138, In Person Term Based; David Lilja ; 1 cr.

### 5501 Digital Communication

(Student Option; Prereq: [3025, 4501, CSE grad student] or dept consent)

27046 001 LEC, 11:15-12:30 TTh, Mechanical Engineering 102, In Person Term Based; Martina Cardone ; 3 cr.  
 27070 883 LEC, 11:15-12:30 TTh, ONLINE, Completely Online; Martina Cardone ; 3 cr.

### 5531 Probability and Stochastic Processes

(Student Option; Prereq: [3025, CSE grad student] or dept consent)

24385 001 LEC, 11:15-12:30 MW, Akerman Hall 209, In Person Term Based; Mehmet Akcakaya ; 3 cr.

### 5581 Information Theory and Coding

(Student Option; Prereq: [5531, CSE grad student] or dept consent)

26440 883 LEC, 14:30-15:45 MW, ONLINE, Completely Online; Soheil Mohajer ; 3 cr.  
 27022 001 LEC, 14:30-15:45 MW, Mechanical Engineering 102, In Person Term Based; Soheil Mohajer ; 3 cr.

### 5601 Introduction to RF/Microwave Engineering

(Student Option; Prereq: [3601, CSE grad student] or dept consent)

34331 001 LEC, 13:00-14:15 MW, Keller Hall 3-111, In Person Term Based; Rhonda Franklin ; 3 cr.  
 34333 883 LEC, 13:00-14:15 MW, ONLINE, Completely Online; Rhonda Franklin ; 3 cr.

### 5602 RF/Microwave Circuit Design

(Student Option; Prereq: [5601 or equiv], [CSE grad student or instr consent])

33580 001 LEC, 13:00-14:15 TTh, Keller Hall 3-115, In Person Term Based; Yahya Tousi ; 3 cr.  
 33586 883 LEC, 13:00-14:15 TTh, ONLINE, Completely Online; 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)

34336 001 LEC, 15:35-16:25 W, Keller Hall 2-158, In Person Term Based; Rhonda Franklin ; 2 cr.  
 34337 002 LAB, In Person Term Based; Rhonda Franklin ; 2 cr.

### 5624 Optical Electronics

(Student Option; Prereq: [[3601 or Phys 3002], CSE grad student] or dept consent)

24550 001 LEC, 14:30-15:59 Th, Keller Hall 3-111, 14:30-16:10 T, Keller Hall 3-111, In Person Term Based; James Leger ; 4 cr.  
 26011 883 LEC, 14:30-16:10 TTh, ONLINE, Completely Online; James Leger ; 4 cr.

### 5640 Introduction to Nano-Optics

(Student Option; )

26934 001 LEC, 09:45-11:00 TTh, Keller Hall 3-111, In Person Term Based; Sang-Hyun Oh ; 3 cr.  
 33965 883 LEC, 09:45-11:00 TTh, ONLINE, Completely Online; Sang-Hyun Oh ; 3 cr.

### 5653 Physical Principles of Magnetic Materials

(Student Option; Prereq: CSE grad student or dept consent)

24396 001 LEC, 14:30-15:20 MWF, Keller Hall 3-125, In Person Term Based; Randall Victora ; 3 cr.

25355 883 LEC, 14:30-15:20 MWF, ONLINE, Completely Online; Randall Victoria ; 3 cr.

### 5745 Wind Energy Essentials

(Student Option; Prereq: CSE grad student or dept consent)

33574 001 LEC, 09:45-11:00 TTh, Keller Hall 3-125, In Person Term Based; Paul Imbertson ; 2 cr.  
33964 883 LEC, 09:45-11:00 TTh, ONLINE, Completely Online; Paul Imbertson ; 2 cr.

### 5940 Special Topics in Electrical Engineering I

(Student Option; )

34771 001 LEC, 14:30-15:45 TTh, Akerman Hall 313, In Person Term Based; Changhyun Choi ; 1-4 cr.  
34772 002 LEC, 09:45-11:00 MW, Amundson Hall 120, In Person Term Based; Tony Low ; 1-4 cr.  
34773 003 LEC, 09:45-11:00 WF, Keller Hall 3-125, In Person Term Based; Andrew Lamperski ; 1-4 cr.  
34986 883 LEC, 09:45-11:00 WF, ONLINE, Completely Online; Andrew Lamperski ; 1-4 cr.

### 5980 Teaching, Grading, and Lab Instruction Seminar

(No Grade Associated; )

26936 001 LEC, 10:10-11:00 F, Keller Hall 3-230, In Person Term Based; David Orser ; 1 cr.

### 5990 Curricular Practical Training

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

24835 001 FWK, 00:00-00:00 , , In Person Term Based; Mehmet Akcakaya ; 1-2 cr.  
25273 002 FWK, 00:00-00:00 , , In Person Term Based; Martina Cardone ; 1-2 cr.  
25274 003 FWK, 00:00-00:00 , , In Person Term Based; Kia Bazargan ; 1-2 cr.  
25275 004 FWK, 00:00-00:00 , , In Person Term Based; Stephen Campbell ; 1-2 cr.  
25276 005 FWK, 00:00-00:00 , , In Person Term Based; Vladimir Cherkassky ; 1-2 cr.  
25277 006 FWK, 00:00-00:00 , , In Person Term Based; Jeong-Hyun Cho ; 1-2 cr.  
25278 007 FWK, 00:00-00:00 , , In Person Term Based; Philip Cohen ; 1-2 cr.  
25279 008 FWK, 00:00-00:00 , , In Person Term Based; Tianhong Cui ; 1-2 cr.  
25280 009 FWK, 00:00-00:00 , , In Person Term Based; Sairaj Dhople ; 1-2 cr.  
25281 010 FWK, 00:00-00:00 , , In Person Term Based; David Du ; 1-2 cr.  
25282 011 FWK, 00:00-00:00 , , In Person Term Based; Lucy Dunne ; 1-2 cr.  
25283 012 FWK, 00:00-00:00 , , In Person Term Based; Emad Ebbini ; 1-2 cr.  
25284 013 FWK, 00:00-00:00 , , In Person Term Based; Douglas Ernie ; 1-2 cr.  
25285 014 FWK, 00:00-00:00 , , In Person Term Based; Rhonda Franklin ; 1-2 cr.  
25286 015 FWK, 00:00-00:00 , , In Person Term Based; Georgios Giannakis ; 1-2 cr.  
25287 016 FWK, 00:00-00:00 , , In Person Term Based; Anand Gopinath ; 1-2 cr.  
25288 017 FWK, 00:00-00:00 , , In Person Term Based; Ramesh Harjani ; 1-2 cr.  
25289 018 FWK, 00:00-00:00 , , In Person Term Based; Jarvis Haupt ; 1-2 cr.  
25290 019 FWK, 00:00-00:00 , , In Person Term Based; Massoud Amin ; 1-2 cr.  
25291 020 FWK, 00:00-00:00 , , In Person Term Based; Ted Higman ; 1-2 cr.  
25292 021 FWK, 00:00-00:00 , , In Person Term Based; Paul Imbertson ; 1-2 cr.  
25293 022 FWK, 00:00-00:00 , , In Person Term Based; Ulya Karpuzcu ; 1-2 cr.  
25294 023 FWK, 00:00-00:00 , , In Person Term Based; Mostafa Kaveh ; 1-2 cr.  
25295 024 FWK, 00:00-00:00 , , In Person Term Based; Chris H. Kim ; 1-2 cr.  
25296 025 FWK, 00:00-00:00 , , In Person Term Based; Steven Koester ; 1-2 cr.  
25297 026 FWK, 00:00-00:00 , , In Person Term Based; Andrew Lamperski ; 1-2 cr.  
25298 027 FWK, 00:00-00:00 , , In Person Term Based; James Leger ; 1-2 cr.  
25299 028 FWK, 00:00-00:00 , , In Person Term Based; Changhyun Choi ; 1-2 cr.  
25300 029 FWK, 00:00-00:00 , , In Person Term Based; David Lijja ; 1-2 cr.  
25301 030 FWK, 00:00-00:00 , , In Person Term Based; Tony Low ; 1-2 cr.  
25302 031 FWK, 00:00-00:00 , , In Person Term Based; Zhi-Quan Luo ; 1-2 cr.  
25303 032 FWK, 00:00-00:00 , , In Person Term Based; Jungwon Choi ; 1-2 cr.

25304 033 FWK, 00:00-00:00 , , In Person Term Based; Soheil Mohajer ; 1-2 cr.  
25305 034 FWK, 00:00-00:00 , , In Person Term Based; Ned Mohan ; 1-2 cr.  
25306 035 FWK, 00:00-00:00 , , In Person Term Based; Chad Myers ; 1-2 cr.  
25307 036 FWK, 00:00-00:00 , , In Person Term Based; Sang-Hyun Oh ; 1-2 cr.  
25308 037 FWK, 00:00-00:00 , , In Person Term Based; Nikolaos Papanikolopoulos ; 1-2 cr.  
25309 038 FWK, 00:00-00:00 , , In Person Term Based; Keshab Parhi ; 1-2 cr.  
25310 039 FWK, 00:00-00:00 , , In Person Term Based; Thomas Posbergh ; 1-2 cr.  
25311 040 FWK, 00:00-00:00 , , In Person Term Based; Marc Riedel ; 1-2 cr.  
25312 041 FWK, 00:00-00:00 , , In Person Term Based; William Robbins ; 1-2 cr.  
25313 042 FWK, 00:00-00:00 , , In Person Term Based; Nicola Elia ; 1-2 cr.  
25314 043 FWK, 00:00-00:00 , , In Person Term Based; P Ruden ; 1-2 cr.  
25315 044 FWK, 00:00-00:00 , , In Person Term Based; murti salapaka ; 1-2 cr.  
25316 045 FWK, 00:00-00:00 , , In Person Term Based; Sachin Sapatnekar ; 1-2 cr.  
25317 046 FWK, 00:00-00:00 , , In Person Term Based; John Sartori ; 1-2 cr.  
25318 047 FWK, 00:00-00:00 , , In Person Term Based; Peter Seiler Jr ; 1-2 cr.  
25319 048 FWK, 00:00-00:00 , , In Person Term Based; Donatello Materassi ; 1-2 cr.  
25320 049 FWK, 00:00-00:00 , , In Person Term Based; Gerald Sobelman ; 1-2 cr.  
25321 050 FWK, 00:00-00:00 , , In Person Term Based; Sarah Swisher ; 1-2 cr.  
25322 051 FWK, 00:00-00:00 , , In Person Term Based; Bethanie Stadler ; 1-2 cr.  
25323 052 FWK, 00:00-00:00 , , In Person Term Based; Joseph Talghader ; 1-2 cr.  
25324 053 FWK, 00:00-00:00 , , In Person Term Based; Gerald Timm ; 1-2 cr.  
25325 054 FWK, 00:00-00:00 , , In Person Term Based; Randall Victoria ; 1-2 cr.  
25326 055 FWK, 00:00-00:00 , , In Person Term Based; Jianping Wang ; 1-2 cr.  
25327 056 FWK, 00:00-00:00 , , In Person Term Based; Pen-Chung Yew ; 1-2 cr.  
25328 057 FWK, 00:00-00:00 , , In Person Term Based; Antonia Zhai ; 1-2 cr.  
25514 058 FWK, 00:00-00:00 , , In Person Term Based; Alena Talkachova ; 1-2 cr.  
25515 059 FWK, 00:00-00:00 , , In Person Term Based; Mingyi Hong ; 1-2 cr.  
25516 060 FWK, 00:00-00:00 , , In Person Term Based; Yahya Tousi ; 1-2 cr.  
25517 061 FWK, 00:00-00:00 , , In Person Term Based; Yasin Yazicioglu ; 1-2 cr.  
25685 062 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
25686 063 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
25687 064 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
25688 065 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.  
25697 066 FWK, 00:00-00:00 , , In Person Term Based; 1-2 cr.

## Endodontics (ENDO)

### 5305 Advanced Clinical Endodontics

(A-F or Audit; Prereq: 5304)

23008 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1-6 cr.

### 5308 Advanced Clinical Endodontics

(A-F or Audit; Prereq: 5307, dept consent)

23018 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1-6 cr.

### 5312 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5311)

23009 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

### 5315 Advanced Endodontic Emergency

(S-N or Audit; Prereq: 5314, dept consent)

23017 001 FWK, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

### 5329 Clinical Seminar I

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

23010 001 DIS, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

### 5331 Review of Cases

(A-F or Audit; Prereq: 5330)

23011 001 DIS, 00:00-00:00 , , In Person Term Based; Scott McClanahan ; 1 cr.

## English as a Second Language (ESL)

### 3001 Integrated Skills for Academic English

(Student Option; Prereq: Non-native speaker of English)

29761 001 LEC, 16:40-18:35 MW, Kolthoff Hall 134, In Person Term Based; 2 cr.

### 3006 English for Business Interactions

(Student Option; Prereq: Non-native English speaker)

29833 001 LEC, 16:40-18:35 M, Blegen Hall 205, In Person Term Based; Meets With: 001 ESL 906001 ESL 5006; Eric Nelson ; 2 cr.

### 3102 English Grammar for Academic Purposes

(Student Option; Prereq: 3101, [Non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent)

31042 301 LEC, Completely Online; Eric Nelson ; 4 cr.

### 3202 Academic Reading and Composition

(Student Option; Prereq: 3201, Non-native speaker of English, [IBT score of at least 68 or equiv], dept consent)

29700 001 LEC, 12:20-14:15 MW, Kolthoff Hall 140, In Person Term Based; Robin Murie ; 5 cr.  
29712 002 DIS, 12:20-13:10 F, Kolthoff Hall 132, In Person Term Based; Robin Murie ; 5 cr.  
31026 003 LEC, 16:40-18:35 MW, Blegen Hall 105, In Person Term Based; Robin Murie ; 5 cr.  
31030 004 DIS, 16:40-17:30 F, Kolthoff Hall 135, In Person Term Based; Robin Murie ; 5 cr.

### 3402 Research Writing for the American University

(Student Option; Prereq: [Non-native speaker of English, [TOEFL iBT 79 or IELTS 6.5 or MNBatt 80 or equiv]] or dept consent)

29769 001 LEC, 08:00-09:55 MW, Folwell Hall 108, In Person Term Based; Meets With: 001 ESL 941; Elizabeth Lake ; 4 cr.  
29842 002 LEC, 16:40-18:35 MW, Folwell Hall 116, In Person Term Based; Kate Trexel ; 4 cr.  
29855 004 LEC, 08:00-09:55 MW, Appleby Hall 303, In Person Term Based; Kate Trexel ; 4 cr.  
31041 003 LEC, 16:40-18:35 TTh, Folwell Hall 108, In Person Term Based; Kate Trexel ; 4 cr.

### 3502 Academic Listening and Speaking

(Student Option; Prereq: 3501, non-native speaker of English, [IBT score of at least 68 or equiv], dept consent)

31024 001 LEC, 14:30-16:25 TTh, Kolthoff Hall 138, In Person Term Based; Paula Bramante ; 5 cr.  
31025 002 DIS, 15:35-16:25 F, Kolthoff Hall 132, In Person Term Based; Paula Bramante ; 5 cr.

### 3551 English Pronunciation

(Student Option; Prereq: Non-native speaker of English, dept consent)

29701 001 LEC, 16:40-18:35 MW, Folwell Hall 112, In Person Term Based; Meets With: 001 ESL 951; Catherine Clements ; 4 cr.

### 3602 Speaking for Academic Purposes

(Student Option; Prereq: 3502, non-native speaker of English, [C-TOEFL score of at least 190 or equiv], dept consent)

29709 001 LEC, 16:40-18:35 TTh, Kolthoff Hall 135, In Person Term Based; Meets With: 001 ESL 931; Carter Griffith ; 4 cr.

### 5006 English for Business Interactions

(Student Option; Prereq: Grad, non-native English speaker)

29835 001 LEC, 16:40-18:35 M, Blegen Hall 205, In Person Term Based; Meets With: 001 ESL 3006001 ESL 906; Eric Nelson ; 2 cr.

### 5008 Speaking for Professional Settings





**(Student Option; DSJ,LITR)**

21094 001 LEC, 16:00-17:15 MW, Akerman Hall 319, In Person Term Based; Meets With: 001 GLBT 3309; James Cihlar; 3 cr.

**3502 Nature Stories: Environmental Discourse in Action**

**(Student Option; LITR,CIV)**  
19899 001 DIS, 11:15-12:30 TTh, Lind Hall 302, In Person Term Based; Melissa Licht; 4 cr.

**3505 Protest Literature and Community Action**

**(A-F or Audit; DSJ)**  
18525 001 FWK, 14:30-15:45 MW, Ford Hall B80, In Person Term Based; Eric Daigre; 4 cr.

**3507W Introduction to Chicana/o Literature**

**(Student Option; DSJ,WI,LITR)**  
19705 001 LEC, 09:45-11:00 MW, Nicholson Hall 145, In Person Term Based; Meets With: 001 CHIC 3507W; Alexandra Covarrubias; 3 cr.  
19706 002 LEC, 11:15-12:30 MW, Nicholson Hall 145, In Person Term Based; Meets With: 002 CHIC 3507W; Alexandra Covarrubias; 3 cr.

**3598W Introduction to African American Literature and Culture II**

**(Student Option; DSJ,WI,LITR)**  
31833 001 LEC, 11:15-13:10 TTh, Blegen Hall 330, In Person Term Based; Meets With: 001 AFRO 3598W; Nathaniel Mills; 4 cr.

**3711 Literary Magazine Production Lab I**

**(A-F only; Prereq: [instructor consent required, instr consent])**  
19852 001 LAB, 18:15-20:00 TTh, Akerman Hall 215, In Person Term Based; James Cihlar; 4 cr.

**3714 The Business of Publishing**

**(Student Option; )**  
20817 001 DIS, 14:30-17:00 M, Lind Hall 315, In Person Term Based; Erin Kottke; 3 cr.

**3741 Literacy and American Cultural Diversity**

**(Student Option; DSJ)**  
18526 001 FWK, 11:15-12:30 MW, Ford Hall B10, In Person Term Based; Eric Daigre; 4 cr.

**3883V Honors Thesis**

**(A-F or Audit; Prereq-Honors candidacy in English, consent of English honors advisor.WI)**  
17491 001 IND, 09:05-11:00 T, Lind Hall 202, In Person Term Based; Daniel Philippon; 1-4 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.)**  
35301 001 FWK, Independent/Directed Study; Terri Sutton; 1-4 cr.  
35592 002 FWK, Independent/Directed Study; Rachel Drake; 1-4 cr.

**3960W Capstone Seminar in English**

**(A-F only; Prerequisites for Admission: Admission to ENGL 3960W requires English major status and completion of ENGL 3001W 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)**  
20818 001 LEC, 12:20-14:15 MW, Ford Hall B60, In Person Term Based; Andrew Scheil; 4 cr.  
20819 002 LEC, 16:00-19:50 W, Lind Hall 207A, In Person Term Based; John Watkins; 4 cr.  
20820 003 LEC, 14:30-16:25 TTh, Ford Hall B60, In Person Term Based; Michael Hancher; 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.)**  
18838 003 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Brennan; 1-4 cr.  
18839 005 IND, 00:00-00:00 , , Independent/Directed Study; Peter Campion; 1-4 cr.  
18840 006 IND, 00:00-00:00 , , Independent/Directed Study; Siobhan Craig; 1-4 cr.

18842 008 IND, 00:00-00:00 , , Independent/Directed Study; Andrew Effenbein; 1-4 cr.  
18843 009 IND, 00:00-00:00 , , Independent/Directed Study; Lianna Farber; 1-4 cr.  
18844 010 IND, 00:00-00:00 , , Independent/Directed Study; M. Fitzgerald; 1-4 cr.  
18846 013 IND, 00:00-00:00 , , Independent/Directed Study; Brian Goldberg; 1-4 cr.  
18847 014 IND, 00:00-00:00 , , Independent/Directed Study; Ramon Gonzalez; 1-4 cr.  
18848 015 IND, 00:00-00:00 , , Independent/Directed Study; David Haley; 1-4 cr.  
18849 016 IND, 00:00-00:00 , , Independent/Directed Study; Douglas Kearney; 1-4 cr.  
18850 017 IND, 00:00-00:00 , , Independent/Directed Study; Michael Hancher; 1-4 cr.  
18851 018 IND, 00:00-00:00 , , Independent/Directed Study; Qadri Ismail; 1-4 cr.  
18852 019 IND, 00:00-00:00 , , Independent/Directed Study; Rebecca Krug; 1-4 cr.  
18854 021 IND, 00:00-00:00 , , Independent/Directed Study; Nabil Matar; 1-4 cr.  
18855 022 IND, 00:00-00:00 , , Independent/Directed Study; Ellen Messer-Davidow; 1-4 cr.  
18856 023 IND, 00:00-00:00 , , Independent/Directed Study; Nathaniel Mills; 1-4 cr.  
18857 024 IND, 00:00-00:00 , , Independent/Directed Study; Christopher Pexa; 1-4 cr.  
18858 025 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Philippon; 1-4 cr.  
18859 026 IND, 00:00-00:00 , , Independent/Directed Study; Jani Scandura; 1-4 cr.  
18860 027 IND, 00:00-00:00 , , Independent/Directed Study; Andrew Scheil; 1-4 cr.  
18861 028 IND, 00:00-00:00 , , Independent/Directed Study; Katherine Scheil; 1-4 cr.  
18952 033 IND, 00:00-00:00 , , Independent/Directed Study; John Watkins; 1-4 cr.  
19599 035 IND, 00:00-00:00 , , Independent/Directed Study; Amit Yahav; 1-4 cr.  
19602 036 IND, Independent/Directed Study; Terri Sutton; 1-4 cr.  
20087 037 IND, 00:00-00:00 , , Independent/Directed Study; Eric Daigre; 1-4 cr.  
20771 040 IND, Independent/Directed Study; Ann Tandy-Treiber; 1-4 cr.  
20777 041 IND, Independent/Directed Study; Melissa Licht; 1-4 cr.

**4612 Old English I**

**(Student Option; )**  
31619 001 LEC, 10:10-11:00 MWF, Akerman Hall 227, In Person Term Based; Meets With: 001 MEST 4612; Andrew Scheil; 3 cr.

**4711 Introduction to Editing and Publishing**

**(Student Option; Prereq: jr or senior or grad student Credit will not be granted if credit has been received for ENG 5401, ENGL 5711, or ENGL 5401)**  
33500 001 DIS, 17:45-19:35 MW, Lind Hall 340, In Person Term Based; Michael Tortorello, Meghan Martin; 4 cr.

**4722 Alphabet to Internet: History of Writing Technologies**

**(Student Option; )**  
20441 001 DIS, 11:15-12:30 TTh, Lind Hall 315, In Person Term Based; Michael Hancher; 3 cr.

**5001 Ph.D. Colloquium: Introduction to Literary Theory and Literary Studies in the Modern University**

**(Student Option; )**  
20442 001 LEC, 14:30-17:00 Th, Lind Hall 207A, In Person Term Based; Timothy Brennan; 3 cr.

**5090 Readings in Special Subjects**

**(Student Option; )**  
31844 001 LEC, 15:35-18:05 T, Lind Hall 229, In Person Term Based; Meets With: 001 ENG 5130; Ramon Gonzalez; 1-4 cr.

**5800 Practicum in the Teaching of English**

**(Student Option; Prereq: Grad student or instr consent)**  
17539 001 LEC, 14:00-16:00 F, Lind Hall 229, In Person Term Based; Eric Daigre; 1-3 cr.

**5992 Directed Readings, Study, or Research**

**(Student Option; Prereq-Grad student or instr consent.)**  
18560 003 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Brennan; 1-3 cr.  
18561 005 IND, 00:00-00:00 , , Independent/Directed Study; Peter Campion; 1-3 cr.

18562 006 IND, 00:00-00:00 , , Independent/Directed Study; Siobhan Craig; 1-3 cr.  
18564 008 IND, 00:00-00:00 , , Independent/Directed Study; Andrew Effenbein; 1-3 cr.  
18565 009 IND, 00:00-00:00 , , Independent/Directed Study; Lianna Farber; 1-3 cr.  
18566 010 IND, 00:00-00:00 , , Independent/Directed Study; M. Fitzgerald; 1-3 cr.  
18568 013 IND, 00:00-00:00 , , Independent/Directed Study; Brian Goldberg; 1-3 cr.  
18569 014 IND, 00:00-00:00 , , Independent/Directed Study; Ramon Gonzalez; 1-3 cr.  
18571 016 IND, 00:00-00:00 , , Independent/Directed Study; Douglas Kearney; 1-3 cr.  
18572 017 IND, 00:00-00:00 , , Independent/Directed Study; Michael Hancher; 1-3 cr.  
18573 018 IND, 00:00-00:00 , , Independent/Directed Study; Qadri Ismail; 1-3 cr.  
18574 019 IND, 00:00-00:00 , , Independent/Directed Study; Rebecca Krug; 1-3 cr.  
18576 021 IND, 00:00-00:00 , , Independent/Directed Study; Nabil Matar; 1-3 cr.  
18577 022 IND, 00:00-00:00 , , Independent/Directed Study; Ellen Messer-Davidow; 1-3 cr.  
18578 023 IND, 00:00-00:00 , , Independent/Directed Study; Nathaniel Mills; 1-3 cr.  
18579 024 IND, 00:00-00:00 , , Independent/Directed Study; Christopher Pexa; 1-3 cr.  
18580 025 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Philippon; 1-3 cr.  
18581 026 IND, 00:00-00:00 , , Independent/Directed Study; Jani Scandura; 1-3 cr.  
18582 027 IND, 00:00-00:00 , , Independent/Directed Study; Andrew Scheil; 1-3 cr.  
18583 028 IND, 00:00-00:00 , , Independent/Directed Study; Katherine Scheil; 1-3 cr.  
18587 033 IND, 00:00-00:00 , , Independent/Directed Study; John Watkins; 1-3 cr.  
18589 035 IND, 00:00-00:00 , , Independent/Directed Study; Amit Yahav; 1-3 cr.

**English: Creative Writing (ENGW)**

**1101W Introduction to Creative Writing**

**(Student Option No Audit; Prereq: Students may not audit this course.LITR,WI)**  
16946 001 LEC, 14:30-15:20 W, 10 Church Street SE 100, In Person Term Based; Peter Campion; 4 cr.  
16947 002 LAB, 09:05-11:00 M, Amundson Hall 156, In Person Term Based; Sandesh Ghimire; 4 cr.  
16948 003 LAB, 10:10-12:05 M, Tate Hall B45, In Person Term Based; Matthew Pockrus; 4 cr.  
16949 004 LAB, 11:15-13:10 M, Lind Hall 325, In Person Term Based; Emma Kaiser; 4 cr.  
16950 005 LAB, 13:25-15:20 M, Amundson Hall 124, In Person Term Based; Said Farah; 4 cr.  
16951 006 LAB, 14:30-16:25 M, Akerman Hall 313, In Person Term Based; Sruthi Narayanan; 4 cr.  
16952 009 LAB, 11:15-13:10 Th, Lind Hall 340, In Person Term Based; Merle Geode; 4 cr.  
17510 007 LAB, 18:20-20:15 M, Akerman Hall 227, In Person Term Based; Tarik Dobbs; 4 cr.  
17511 008 LAB, 09:05-11:00 Th, Ford Hall B10, In Person Term Based; torrin greathouse; 4 cr.  
17512 010 LAB, 13:25-15:20 Th, Ford Hall 130, In Person Term Based; Noel Haines; 4 cr.  
17564 011 LAB, 18:20-20:15 Th, Lind Hall 229, In Person Term Based; Asha Thanki; 4 cr.  
19673 012 LAB, 09:05-11:00 F, Lind Hall 302, In Person Term Based; Steven Blythe; 4 cr.  
20038 013 LAB, 10:10-12:05 F, Lind Hall 315, In Person Term Based; Timothy Reynolds; 4 cr.

**1102 Introduction to Fiction Writing**

**(Student Option No Audit; )**  
16961 001 LEC, 11:15-12:30 MW, Lind Hall 320, In Person Term Based; Chelli Riddiough; 3 cr.  
17493 002 LEC, 13:00-14:15 TTh, Lind Hall 325, In Person Term Based; Dylan Reynolds; 3 cr.  
17995 003 LEC, 18:20-20:50 Th, Lind Hall 325, In Person Term Based; May Lee-Yang; 3 cr.

**1103 Introduction to Poetry Writing**

**(Student Option No Audit; )**  
16960 001 LEC, 18:20-20:50 T, Lind Hall 340, In Person Term Based; Mariela Lemus; 3 cr.

**1104 Introduction to Literary Nonfiction Writing**

**(Student Option No Audit; Prereq: Students not allowed to audit this course)**  
16962 001 LEC, 11:15-12:30 TTh, Akerman Hall 215, In Person Term Based; Emily Strasser; 3 cr.



21579 001 LEC, 08:45-10:00 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ESPM 5245; Mae Davenport ; 3 cr.

**3251 Natural Resources in Sustainable International Development**  
(A-F or Audit; GP)

21789 001 LEC, 16:05-18:00 W, Green Hall 203, 16:05-16:55 M, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 5251; Dean Current ; 3 cr.

**3271 Environmental Policy, Law, and Human Behavior**  
(A-F or Audit; CIV,SOCS)

21891 001 LEC, 10:40-11:30 M, Green Hall 110, In Person Term Based; Jesse Engebretson ; 3 cr.  
21892 002 DIS, 10:40-12:35 W, Green Hall 110, In Person Term Based; Jesse Engebretson ; 3 cr.

**3601 Sustainable Housing--Community, Environment, and Technology**  
(A-F or Audit; TS)

22305 001 LEC, Completely Online; Marilou Cheple ; 3 cr.

**3603 Environmental Life Cycle Analysis**  
(A-F only; )

21848 001 LEC, 15:00-16:15 TTh, Hodson Hall 495, In Person Term Based; Meets With: 001 ESPM 5603; Jason Hill ; 3 cr.

**3604 Environmental Management Systems and Strategy**  
(A-F only; )

21855 001 LEC, 16:00-17:15 MW, Carlson School of Mgmt 1-123, In Person Term Based; Meets With: 001 ESPM 5604; Tim Smith ; 3 cr.

**3612W Soil and Environmental Biology**  
(Student Option; Prereq: Biol 1009 or equiv, Chem 1021 or equiv; SOIL 2125 recommendedWI)

21821 001 LEC, 10:40-11:30 MWF, Hodson Hall 495, In Person Term Based; Meets With: 001 SOIL 5611; Jessica Gutknecht ; 4 cr.

**3921 Science and Critical Thinking for Environmental Issues in the Information Age**  
(A-F only; CIV)

33026 001 LEC, 15:00-16:15 MW, Biological Sciences Ctr 64, In Person Term Based; Gretchen Hansen ; 3 cr.

**4041W Problem Solving for Environmental Change**  
(A-F or Audit; WI)

21886 001 LEC, 15:00-16:55 TTh, Green Hall 203, In Person Term Based; Gary Johnson ; 4 cr.

**4061W Water Quality and Natural Resources**  
(Student Option; ENV,WI)

21917 001 DIS, 09:35-10:25 MWF, Borlaug Hall 365, In Person Term Based; Jim Perry ; 3 cr.

**4093 Directed Study**  
(Student Option; Prereq: instr consent)

21784 001 LEC, 00:00-00:00 , , In Person Term Based; Kimberly Byrd ; 1-7 cr.  
21873 002 LEC, 00:00-00:00 , , In Person Term Based; Dean Current ; 1-7 cr.  
21914 003 LEC, 00:00-00:00 , , In Person Term Based; Julia Nerbonne ; 1-7 cr.  
21916 004 LEC, 00:00-00:00 , , In Person Term Based; Joe Knight ; 1-7 cr.  
21928 005 LEC, 00:00-00:00 , , In Person Term Based; Kristen Nelson ; 1-7 cr.  
21961 006 LEC, 00:00-00:00 , , In Person Term Based; Jim Perry ; 1-7 cr.  
21998 007 LEC, 00:00-00:00 , , In Person Term Based; Ed Nater ; 1-7 cr.  
22000 008 LEC, In Person Term Based; Jay Bell ; 1-7 cr.  
22016 009 LEC, In Person Term Based; Karen Oberhauser ; 1-7 cr.  
22034 010 LEC, 00:00-00:00 , , In Person Term Based; Mark Bellcourt ; 1-7 cr.

**4094 Directed Research**  
(Student Option; Prereq: instr consent)

21785 001 LEC, 00:00-00:00 , , In Person Term Based; Dean Current ; 1-7 cr.  
21915 002 LEC, 00:00-00:00 , , In Person Term Based; Joe Knight ; 1-7 cr.

22026 003 LEC, 00:00-00:00 , , In Person Term Based; Kristen Nelson ; 1-7 cr.  
22035 004 LEC, 00:00-00:00 , , In Person Term Based; Carl Rosen ; 1-7 cr.

**4096 Professional Experience Program: Internship**  
(A-F only; Prereq: CFANS undergrad, instr consent, completed internship contract)

21674 001 FWK, 15:00-15:50 W, Hodson Hall 490, In Person Term Based; Ray Newman ; 1 cr.  
21999 002 FWK, 15:00-15:50 T, Haecker Hall 205, In Person Term Based; Nicolas Jelinski ; 1 cr.  
22374 003 FWK, 15:00-15:50 W, Hodson Hall 495, In Person Term Based; James Smith ; 1 cr.

**4216 Contaminant Hydrology**  
(A-F or Audit; )

34371 001 LEC, 12:50-13:40 MW, Soils S415, In Person Term Based; Grace Wilson ; 3 cr.  
34372 002 DIS, 12:50-13:40 F, Soils S415, In Person Term Based; Grace Wilson ; 3 cr.

**4295W GIS in Environmental Science and Management**  
(A-F or Audit; Prereq: FNRM 3131 or Geog 3561 or instr consentWI)

21903 001 LEC, 10:40-12:35 MW, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 5295; Paul Bolstad, Andrew Jenks ; 4 cr.

**5015 Invasive Plants and Animals: Ecology and Management**  
(Student Option; )

33535 001 LEC, 13:30-14:45 TTh, Alderman Hall 415, In Person Term Based; Meets With: 001 ESPM 3015; Ray Newman ; 3 cr.

**5061 Water Quality and Natural Resources**  
(Student Option; )

22275 001 LEC, 08:30-09:20 W, Borlaug Hall 365, In Person Term Based; Jim Perry ; 3 cr.

**5071 Ecological Restoration**  
(Student Option; Prereq: [One college course in ecology, one college course in [plant science or botany]] or instr consent)

22025 001 LEC, 16:30-18:30 TTh, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 001 HORT 5071; Susan Galatowitsch ; 4 cr.

**5108 Ecology of Managed Systems**  
(A-F or Audit; Prereq: Sr or grad student)

21923 001 LEC, 08:45-10:00 TTh, Green Hall 110, In Person Term Based; Meets With: 001 ESPM 3108; Claudia Nanninga, Nicholas Jordan ; 4 cr.

**5245 Sustainable Land Use Planning and Policy**  
(A-F or Audit; )

21690 001 LEC, 08:45-10:00 TTh, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 ESPM 3245; Mae Davenport ; 3 cr.

**5251 Natural Resources in Sustainable International Development**  
(A-F or Audit; Prereq: Grad student or instr consent)

21790 001 LEC, 16:05-18:00 W, Green Hall 203, 16:05-16:55 M, Green Hall 203, In Person Term Based; Meets With: 001 ESPM 3251; Dean Current ; 3 cr.

**5295 GIS in Environmental Science and Management**  
(A-F or Audit; )

21904 001 LEC, 10:40-12:35 MW, Skok Hall 35, In Person Term Based; Meets With: 001 ESPM 4295W; Paul Bolstad, Andrew Jenks ; 4 cr.

**5555 Wetland Soils**  
(A-F or Audit; Prereq: SOIL 1125 or 2125 or equiv or instr consent; concurrent registration is required (or allowed) in SOIL 4511 recommended)

21787 001 LEC, 15:00-15:50 MW, Borlaug Hall 375, In Person Term Based; Meets With: 001 SOIL 5555; Jay Bell ; 3 cr.  
21788 002 FWK, 15:00-18:00 Th, Borlaug Hall 375, In Person Term Based; Meets With: 002 SOIL 5555; Jay Bell ; 3 cr.

**5603 Environmental Life Cycle Analysis**  
(A-F only; Prereq: [Math 1142 or [Math 1271, Math 1282]], [Econ 1101 or ApEc 1101])

21849 001 LEC, 15:00-16:15 TTh, Hodson Hall 495, In Person Term Based; Meets With: 001 ESPM 3603; Jason Hill ; 3 cr.

**5604 Environmental Management Systems and Strategy**  
(A-F only; )

21856 001 LEC, 16:00-17:15 MW, Carlson School of Mgmt 1-123, In Person Term Based; Meets With: 001 ESPM 3604; Tim Smith ; 3 cr.

**Experimental and Clinical Phar (ECP)**

**5220 Regulatory Issues in Drug Research**  
(Student Option; Prereq: ECP grad student or Pharm.D. professional student or instr consent)

29182 001 LEC, 13:25-15:20 W, Weaver-Densford Hall W7-193, In Person Term Based; Angela Birnbaum ; 2 cr.

**5290 Clinical Clerkship**  
(Student Option; Prereq: Grad experimental and clinical pharmacology)

29093 001 ROT, 00:00-00:00 , , In Person Term Based; 1-8 cr.

**Family Med & Community Health (FMCH)**

**5564 Family Practice Seminar**  
(O-N or Audit; Prereq: MD or DO degree)

27491 001 LEC, 00:00-00:00 , , In Person Term Based; 1 cr.

**5950 Clinical Issues in Human Sexuality**  
(O-N or Audit; Prereq: Enrollment in health sci grad programs in CSPP, Psy, PubH, SW or FSoS or instr consent)

27493 001 LEC, 00:00-00:00 , , In Person Term Based; Eli Coleman ; 2 cr.

**5955 Directed Study**  
(O-N or Audit; Prereq: instr consent; qualified students may arrange for work on a tutorial basis)

27492 001 IND, 00:00-00:00 , , In Person Term Based; 1-10 cr.  
27922 002 IND, 00:00-00:00 , , In Person Term Based; Michelle van Ryn ; 1-10 cr.

**Family Social Science (FSOS)**

**1101 Intimate Relationships**  
(Student Option; SOCS)

15395 001 LEC, 14:30-16:25 T, 10 Church Street SE 100, In Person Term Based; Tai Mendenhall ; 4 cr.  
15396 002 DIS, 14:30-16:25 Th, Molecular Cellular Biol 2-120, In Person Term Based; 4 cr.  
15397 003 DIS, 14:30-16:25 Th, Smith Hall 331, In Person Term Based; 4 cr.  
15495 004 DIS, 14:30-16:25 Th, Armory Building 202, In Person Term Based; 4 cr.

**1211 An Interdisciplinary Look at the Family in Multicultural America**  
(A-F or Audit; SOCS,DSJ)

16495 001 DIS, 14:30-16:25 MW, Peik Hall 225, In Person Term Based; Margaret Kelly ; 4 cr.

**1301 Cash or Credit: You Need to Know**  
(A-F only; )

15843 001 LEC, Completely Online; Seonghee Hong ; 1 cr.

**1461 Presentations at Work: Families, Communities, Nonprofits, and Schools**  
(A-F or Audit; CIV)

16490 001 DIS, 08:00-08:50 MWF, Appleby Hall 11, In Person Term Based; Heather Dorsey ; 3 cr.

**2101 Preparation for Working With Families**  
(A-F or Audit; )

15393 001 LEC, 08:15-09:30 TTh, Bruininks Hall 131A, In Person Term Based; Tabitha Grier-Reed ; 3 cr.

**2103 Family Policy**  
(Student Option; )

15751 001 LEC, Completely Online; Beth Magistad ; 3 cr.

**2105 Methods in Family Research**



15598 009 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-4 cr.  
 15599 010 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-4 cr.  
 15600 011 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-4 cr.  
 15601 012 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-4 cr.  
 15602 013 IND, 00:00-00:00 , , Independent/Directed Study; Martha Rueter ; 1-4 cr.  
 15603 014 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-4 cr.  
 15604 015 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-4 cr.  
 16043 016 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-4 cr.  
 16071 017 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-4 cr.  
 16080 018 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-4 cr.  
 16218 019 IND, 00:00-00:00 , , Independent/Directed Study; Zha Xiong ; 1-4 cr.  
 16290 020 IND, 00:00-00:00 , , Independent/Directed Study; Virginia Solis Zuiker ; 1-4 cr.

#### 4296 Field Study: Working With Families (S-N or Audit; Prereq: 2101 or instr consent)

15394 001 FWK, 10:15-13:00 F, McNeal Hall 10, 10:15-13:00 F, McNeal Hall 10, 10:15-13:00 F, McNeal Hall 10, 10:15-13:00 F, McNeal Hall 10, In Person Term Based; Sara Axtell ; 1-12 cr.

#### 5193 Directed Study in Family Social Science (Student Option; Prereq: FSos or grad student in related field)

15415 001 IND, 00:00-00:00 , , Independent/Directed Study; Gerald August ; 1-6 cr.  
 15620 002 IND, 00:00-00:00 , , Independent/Directed Study; Sara Axtell ; 1-6 cr.  
 15621 003 IND, 00:00-00:00 , , Independent/Directed Study; Lynne Borden ; 1-6 cr.  
 15622 004 IND, 00:00-00:00 , , Independent/Directed Study; William Doherty ; 1-6 cr.  
 15623 005 IND, 00:00-00:00 , , Independent/Directed Study; Jodi Dworkin ; 1-6 cr.  
 15624 006 IND, 00:00-00:00 , , Independent/Directed Study; Abigail Gewirtz ; 1-6 cr.  
 15625 007 IND, 00:00-00:00 , , Independent/Directed Study; Tabitha Grier-Reed ; 1-6 cr.  
 15626 008 IND, 00:00-00:00 , , Independent/Directed Study; Steven Harris ; 1-6 cr.  
 15627 009 IND, 00:00-00:00 , , Independent/Directed Study; Beth Magstad ; 1-6 cr.  
 15628 010 IND, 00:00-00:00 , , Independent/Directed Study; Jenifer McGuire ; 1-6 cr.  
 15629 011 IND, 00:00-00:00 , , Independent/Directed Study; Tai Mendenhall ; 1-6 cr.  
 15630 013 IND, 00:00-00:00 , , Independent/Directed Study; Timothy Piehler ; 1-6 cr.  
 15631 014 IND, 00:00-00:00 , , Independent/Directed Study; Martha Rueter ; 1-6 cr.  
 15632 015 IND, 00:00-00:00 , , Independent/Directed Study; Joyce Serido ; 1-6 cr.  
 15633 016 IND, 00:00-00:00 , , Independent/Directed Study; Catherine Solheim ; 1-6 cr.  
 15810 017 IND, 00:00-00:00 , , Independent/Directed Study; Marlene Stum ; 1-6 cr.  
 15924 018 IND, 00:00-00:00 , , Independent/Directed Study; Susan Walker ; 1-6 cr.  
 16045 019 IND, 00:00-00:00 , , Independent/Directed Study; Lindsey Weiler ; 1-6 cr.  
 16253 012 IND, 00:00-00:00 , , Independent/Directed Study; Cynthia Meyer ; 1-6 cr.  
 16292 020 IND, 00:00-00:00 , , Independent/Directed Study; Elizabeth Wieling ; 1-6 cr.  
 16293 021 IND, 00:00-00:00 , , Independent/Directed Study; Zha Xiong ; 1-6 cr.  
 16580 022 IND, 00:00-12:00 , , Independent/Directed Study; Virginia Solis Zuiker ; 1-6 cr.

#### 5426 Alcohol and Drugs: Families and Culture (Student Option; )

16542 001 LEC, 10:15-13:00 F, McNeal Hall 10, 10:15-13:00 F, McNeal Hall 10, 10:15-13:00 F, McNeal Hall 10, Partially Online; Meets With: 001 FSOS 3426; Sara Axtell ; 3 cr.

#### 5937 Parent-Child Interaction

(A-F only; )  
 32976 001 LEC, 19:00-19:50 Th, ONLINE, Completely Online; Susan Walker ; 3 cr.

#### 5942 Diverse Family Experiences

(A-F only; )  
 32977 001 LEC, 20:00-20:50 Th, ONLINE, Completely Online; Beth Magstad ; 3 cr.

#### 5944 Curricular Design in Parent Education

(A-F only; Prereq: FSos 5937 & FSos 5942 or instr consent)  
 16037 001 DIS, 19:00-19:50 W, ONLINE, Completely Online; Heather Cline ; 3 cr.

#### 5945 Teaching and Learning in Parent Education

(A-F only; Prereq: FSos 5937 & FSos 5942 or instr consent)  
 16038 001 DIS, 20:00-20:50 W, ONLINE, Completely Online; Heather Cline ; 3 cr.

### Finance (FINA)

#### 3001 Finance Fundamentals

(A-F or Audit; Prereq: ACCT 2050, SCO 2550 or equivalent statistics course)  
 22402 001 LEC, 08:15-09:30 MW, Hanson Hall 1-102, In Person Term Based; Stuart Webb ; 3 cr.  
 22403 002 LEC, 09:45-11:00 TTh, Hanson Hall 1-102, In Person Term Based; Rick Nelson ; 3 cr.  
 22404 003 LEC, 13:00-14:15 MW, Hanson Hall 1-102, In Person Term Based; John Molloy ; 3 cr.  
 22491 020 LEC, 17:45-20:15 Th, Carlson School of Mgmt 1-123, In Person Term Based; Christos Kamaras ; 3 cr.  
 22642 004 LEC, 13:00-14:15 TTh, Hanson Hall 1-102, In Person Term Based; John Molloy ; 3 cr.  
 22688 005 LEC, 11:15-12:30 TTh, Hanson Hall 1-107, In Person Term Based; Yuchen Chen, Alexandre Reggi Pecora ; 3 cr.  
 22748 006 LEC, 16:00-17:15 TTh, Hanson Hall 1-102, In Person Term Based; Stuart Webb ; 3 cr.  
 34957 007 LEC, 09:45-11:00 TTh, Hanson Hall 1-105, In Person Term Based; John Molloy ; 3 cr.

#### 3001H Honors: Finance Fundamentals

(A-F only; Prereq: Acct 2050, SCO 2550 or equivalent statistics course)  
 22799 001 LEC, 11:15-12:30 MW, Carlson School of Mgmt 2-219, In Person Term Based; Rick Nelson ; 3 cr.

#### 4121 Financial Markets and Interest Rates

(A-F or Audit; Prereq: 3001, CSOM major)  
 22414 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-123, In Person Term Based; Rick Nelson ; 2 cr.  
 22448 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt L-114, In Person Term Based; Colin Ward ; 2 cr.  
 22576 003 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Colin Ward ; 2 cr.  
 22577 004 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Colin Ward ; 2 cr.

#### 4221 Principles of Corporate Finance

(A-F only; Prereq: 3001, CSOM major, actuarial science major)  
 22578 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Martin Szydlowski ; 2 cr.  
 22579 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Martin Szydlowski ; 2 cr.  
 22580 004 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Martin Szydlowski ; 2 cr.  
 22627 003 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Martin Szydlowski ; 2 cr.

#### 4234 Mergers and Acquisitions In Action ? Process and Valuation

(A-F only; Prerequisite: Fina 4422)  
 34546 001 FWK, 09:55-11:35 MW, Carlson School of Mgmt 2-224, In Person Term Based; Alan Thometz ; 2 cr.

#### 4242W Corporate Investment Decisions

(A-F or Audit; Prereq: 3001, 4121 or 4121H, 4321 or 4321H, 4422, 4522, CSOM majorW)  
 22643 002 LEC, 09:55-11:35 TTh, Carlson School of Mgmt 1-143, In Person Term Based; Dick Vogel ; 4 cr.  
 22874 001 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-127, In Person Term Based; John Molloy ; 4 cr.

#### 4321 Portfolio Management and Performance Evaluation

(A-F or Audit; Prereq: 3001, CSOM major, can take concurrent registration is required (or allowed) in 4522)  
 22516 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-215, In Person Term Based; Jeff Bailey ; 2 cr.  
 22581 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-114, In Person Term Based; Jeff Bailey ; 2 cr.

22582 003 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Erik Loualiche ; 2 cr.  
 22583 004 LEC, 15:45-17:25 TTh, Carlson School of Mgmt L-114, In Person Term Based; Erik Loualiche ; 2 cr.

#### 4329 Security Analysis Capstone

(A-F only; Prereq: 4121 or 4121H, 4321 or 4321H, 4422, 4522, ACCT 5100 or ACCT 5101)  
 22636 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-215, In Person Term Based; Nick Seeman ; 2 cr.

#### 4422 Financial Modeling

(A-F only; Prereq: FINA 3001 or 3001H, 4221, ACCT 5101, CSOM major)  
 22585 003 LEC, 09:55-11:35 TTh, Carlson School of Mgmt L-114, In Person Term Based; Alan Thometz ; 2 cr.  
 22586 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-132, In Person Term Based; Alan Thometz ; 2 cr.  
 22587 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt L-114, In Person Term Based; Alan Thometz ; 2 cr.  
 22701 004 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Alan Thometz ; 2 cr.

#### 4522 Options & Derivatives I

(A-F only; Prereq: 3001 or 3001H, or ApEc , 4121 or 4121H, 4321 (can be concurrent) or 4321H (can be concurrent), CSOM major)  
 22875 001 LEC, 15:45-17:25 MW, Hanson Hall 1-107, In Person Term Based; Stuart Webb ; 2 cr.  
 22876 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-213, In Person Term Based; Stuart Webb ; 2 cr.  
 22877 003 LEC, 13:45-15:25 MW, Carlson School of Mgmt 2-213, In Person Term Based; Erik Loualiche ; 2 cr.

#### 4621 The Global Economy (Macro)

(A-F only; Prereq: 3001, CSOM major)  
 22584 002 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Juliana Salomao ; 2 cr.  
 22844 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Thanh Le ; 2 cr.

#### 4622 International Finance

(A-F only; Prereq: CSOM major, 3001 or 3001H, 4121 or 4121H, 4221)  
 22845 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 1-123, In Person Term Based; Juliana Salomao ; 2 cr.  
 22846 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Juliana Salomao ; 2 cr.

#### 5422 Financial Econometrics and Computational Methods I

(A-F only; )  
 22878 001 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-132, In Person Term Based; Meets With: 001 MSF 6422; Colin Ward ; 2 cr.

#### 5423 Financial Econometrics and Computational Methods II

(A-F only; )  
 22879 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-132, In Person Term Based; Meets With: 001 MSF 6423; Colin Ward ; 2 cr.

### Financial Mathematics (FM)

#### 5001 Preparation for Financial Mathematics I

(Student Option; Prereq: Grad MFM major or MFM program director approval)  
 25768 001 LEC, 17:30-20:00 W, Mechanical Engineering 212, In Person Term Based; Vern Nelson ; 3 cr.  
 25994 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Vern Nelson ; 3 cr.

#### 5011 Mathematical Background for Finance I

(Student Option; Prereq: [5001, 5002] with grade of at least B or [MFM program director approval, grad MFM major])  
 25769 001 LEC, 17:30-20:50 Th, Keller Hall 3-230, In Person Term Based; Helena Zarin ; 4 cr.

#### 5021 Mathematical Theory Applied to Finance I

(Student Option; Prereq: [5011 or concurrent registration is required (or allowed) in 5011], grad MFM major, program director approval)  
 25766 001 LEC, 17:30-20:50 T, Vincent Hall 16, In Person Term Based; Carlos Tolmasky ; 4 cr.

#### 5031 A Practitioner's Course in Finance I



21617 002 LAB, 10:40-12:35 T, McNeal Hall 126, In Person Term Based; Breann Abernathy ; 3 cr.  
 21691 003 LAB, 12:50-14:45 T, McNeal Hall 126, In Person Term Based; Zata Vickers, Breann Abernathy ; 3 cr.  
 21819 004 LAB, 12:50-14:45 Th, McNeal Hall 126, In Person Term Based; Zata Vickers, Breann Abernathy ; 3 cr.  
 21906 005 LAB, 10:40-12:35 Th, McNeal Hall 126, In Person Term Based; Zata Vickers, Breann Abernathy ; 3 cr.

**3612 Life Cycle Nutrition**

(Student Option; Prereq: CHEM 1061/1065)  
 21618 001 LEC, 12:50-13:40 MWF, Andrew Boss Laboratory 125, In Person Term Based; Aimee Tritt ; 3 cr.

**3614 Nutrition Education and Counseling**

(Student Option; Prereq: 1112)  
 21842 001 DIS, 10:40-12:35 MWF, Andrew Boss Laboratory 125, In Person Term Based; Aimee Tritt, Cynthia Meyer ; 3 cr.

**3731 Food Service Operations Management Laboratory**

(A-F or Audit; Prereq: [3102 or concurrent registration is required (or allowed) in 3102], [3732 or concurrent registration is required (or allowed) in 3732])  
 21619 001 LAB, 08:05-10:25 Th, Andrew Boss Laboratory 125, In Person Term Based; Len Marquart ; 2 cr.

**3732 Food Service Operations Management**

(A-F or Audit; )  
 21620 001 LEC, 09:35-10:25 MWF, Andrew Boss Laboratory 125, In Person Term Based; Len Marquart ; 3 cr.

**4096 Professional Experience Program: Internship**

(A-F only; Prereq: To register, students must fill out FScN Internship Agreement form, available at <http://fscn.cfans.umn.edu>. Contact [fscnug@umn.edu](mailto:fscnug@umn.edu) with questions.)  
 21703 001 FWK, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4112 Food Chemistry and Functional Foods**

(Student Option; Prereq: 3102, BIOC 3021)  
 21935 001 LEC, 08:30-09:20 MWF, Andrew Boss Laboratory 125, In Person Term Based; George Annor ; 3 cr.

**4122 Food Fermentations and Biotechnology**

(Student Option; Prereq: [MICB 3301, BIOL 4003] or instr consent)  
 21933 001 LEC, 10:40-12:35 F, Food Science & Nutrition 15, In Person Term Based; Meets With: 001 FSCN 5122; Daniel O'Sullivan ; 2 cr.

**4123 Molecular Biology for Applied Scientists**

(A-F only; Prereq: [BioC 3021 and MicB 3301] or FScN 2021 or instr consent)  
 22144 001 LEC, 10:40-11:30 TTh, Food Science & Nutrition 15, In Person Term Based; Daniel O'Sullivan ; 1 cr.

**4131 Food Quality**

(Student Option; Prereq: jr)  
 21684 001 LEC, 13:55-14:45 MWF, Ruttan Hall 143, In Person Term Based; Meets With: 001 FSCN 5131; Tonya Schoenfuss ; 3 cr.

**4291 Independent Study**

(Student Option; Prereq: Undergrads, instr consent)  
 21696 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4312W Food Analysis**

(Student Option; Prereq: FSCN 4112WI)  
 21624 001 LEC, 12:50-13:40 MWF, Ruttan Hall 143, In Person Term Based; Meets With: 001 FSCN 5312; B. Pam Ismail ; 4 cr.  
 21625 002 LAB, 09:35-12:30 M, Room TBA, In Person Term Based; B. Pam Ismail ; 4 cr.  
 22027 003 LAB, 09:35-12:30 W, Room TBA, In Person Term Based; Meets With: 002 FSCN 5312; B. Pam Ismail ; 4 cr.

**4349 Food Science Capstone**

(A-F only; Prereq: 4112, 4121, 4131, 4312, 4332, BBE 4744, Food Science Major, senior)  
 22023 001 LAB, 15:30-18:30 MW, McNeal Hall 134, In Person Term Based; Gary Reineccius, Daniel O'Sullivan ; 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)  
 21621 001 LEC, 13:55-15:50 MW, Food Science & Nutrition 15, In Person Term Based; Joanne Slavin ; 4 cr.

**4621 Nutrition and Metabolism**

(Student Option; )  
 21846 001 LEC, 10:40-12:35 TTh, Andrew Boss Laboratory 125, In Person Term Based; Xiaoli Chen ; 4 cr.

**4665 Medical Nutrition Therapy I**

(A-F or Audit; Prereq: BIOC: 3021, PHYS 3051, FSCN 4612)  
 21622 001 LEC, 16:30-19:15 W, Food Science & Nutrition 15, In Person Term Based; Kathleen Price ; 3 cr.

**4667 Dietetics Capstone and Interprofessional Education**

(S-N only; Prereq: Senior Nutrition Major with DPD subplan, [FScN 4665 or concurrent registration is required (or allowed) in 4665])  
 22044 001 LEC, 09:35-10:25 T, Food Science & Nutrition 15, 13:30-15:30 F, Food Science & Nutrition 15, 13:30-15:30 F, Food Science & Nutrition 15, 13:30-15:30 F, Food Science & Nutrition 15, 13:30-15:30 F, Food Science & Nutrition 15, 13:30-15:30 F, Food Science & Nutrition 15, In Person Term Based; Corrie Marion ; 2 cr.

**5122 Food Fermentations and Biotechnology**

(A-F only; Prereq: MICB 3301, BIOL 4003)  
 22045 001 LEC, 10:40-12:35 F, Food Science & Nutrition 15, In Person Term Based; Meets With: 001 FSCN 4122; Daniel O'Sullivan ; 2 cr.

**5123 Molecular Biology for Applied Scientists**

(A-F only; Prereq: MicB 3301 or FScN 2021 or instr consent)  
 22154 001 LEC, 10:40-11:30 TTh, Magrath Library 4, In Person Term Based; Daniel O'Sullivan ; 1 cr.

**5131 Food Quality for Graduate Credit**

(Student Option; Prereq: Food Science Grad Student Student may select grading basis if instructor approves. A-F registration is required for class to count toward degree.)  
 22043 001 LEC, 13:55-14:45 MWF, Ruttan Hall 143, In Person Term Based; Meets With: 001 FSCN 4131; Tonya Schoenfuss ; 3 cr.

**5312 Food Analysis**

(A-F or Audit; Prereq: 4112, STAT 3011)  
 22055 001 LEC, 12:50-13:40 MWF, Ruttan Hall 143, In Person Term Based; Meets With: 001 FSCN 4312W; B. Pam Ismail ; 4 cr.  
 22056 002 LAB, 09:35-12:30 W, Room TBA, In Person Term Based; Meets With: 003 FSCN 4312W; B. Pam Ismail ; 4 cr.

**5521 Flavor Technology**

(Student Option; Prereq: 4112)  
 33767 001 LEC, 16:05-17:55 T, Ruttan Hall B42, In Person Term Based; Gary Reineccius ; 2 cr.

**5541 Dairy Product Chemistry and Technology**

(Student Option; Prereq: 3102, 4112, Food Science major, upper division undergraduate or graduate student)  
 33035 001 LEC, 16:30-18:30 W, Room TBA, In Person Term Based; Tonya Schoenfuss ; 2 cr.

**5601 Management of Eating Disorders**

(Student Option; Prereq: Junior, senior or graduate student in nutrition or health related program or instructor consent.)  
 22046 001 LEC, 17:30-20:10 T, Ruttan Hall 143, In Person Term Based; Jillian Lampert ; 3 cr.

**Food Systems (FDSY)**

**1016W Growing Food & Building Community: Urban Agriculture in the Twin Cities**  
 (A-F only; WI)

22260 001 LEC, 15:00-16:30 T, Alderman Hall 405, In Person Term Based; Mary Rogers ; 3 cr.  
 22261 002 DIS, 15:00-16:30 Th, Alderman Hall 405, In Person Term Based; Mary Rogers ; 3 cr.

**1903 An Eater's Guide to the Food System (A-F only; )**

22317 001 LEC, 17:10-19:00 M, Plant Growth Facility 140B, In Person Term Based; Thomas Michaels ; 3 cr.  
 22318 002 DIS, 17:10-18:00 W, Plant Growth Facility 140B, In Person Term Based; Thomas Michaels ; 3 cr.

**Foreign Study (FOST)****Forest and Natural Res. Mgmt. (FNRM)****1001 Orientation and Information Systems (A-F or Audit; )**

22071 001 LEC, 15:00-15:50 T, Kaufert Laboratory 302, In Person Term Based; Christopher Edgar, Mike Kilgore ; 1 cr.

**1101 Dendrology: Identifying Forest Trees and Shrubs**

(Student Option; )  
 22072 001 LEC, 16:05-16:55 MW, Green Hall 110, In Person Term Based; Andrew David ; 3 cr.  
 22073 002 LAB, 12:50-15:50 M, Plant Growth Facility 174, In Person Term Based; Chad Giblin, Andrew David ; 3 cr.  
 22074 003 LAB, 12:50-15:50 T, Plant Growth Facility 174, In Person Term Based; Chad Giblin, Andrew David ; 3 cr.  
 22075 004 LAB, 12:50-15:50 W, Plant Growth Facility 174, In Person Term Based; Chad Giblin, Andrew David ; 3 cr.  
 22076 005 LAB, 12:50-15:50 Th, Plant Growth Facility 174, In Person Term Based; Chad Giblin, Andrew David ; 3 cr.

**3101 Park and Protected Area Tourism**

(A-F or Audit; )  
 33483 001 LEC, 11:15-12:30 T, Green Hall 203, Partially Online; Meets With: 001 FNRM 5101; Ingrid Schneider ; 3 cr.

**3104 Forest Ecology**

(A-F or Audit; Prereq: Biol 1001, 1009 or equivalent introductory biology course; 1 semester college chemistry recommended.)  
 22067 001 LEC, 11:45-13:00 MW, Biological Sciences Ctr 64, In Person Term Based; Meets With: 001 FNRM 5104; Rebecca Montgomery ; 4 cr.  
 22068 002 LAB, 12:50-16:50 F, Green Hall 110, In Person Term Based; Rebecca Montgomery ; 4 cr.

**3114 Hydrology and Watershed Management**

(Student Option; Prereq: [(BIOL 1001 or BIOL 1009), [(CHEM 1015, CHEM 1017] or CHEM 1021], MATH 1151] or instr consent)  
 22069 001 LEC, 10:15-11:30 TTh, Green Hall 110, In Person Term Based; Meets With: 001 FNRM 5114; Diana Karwan ; 3 cr.

**3131 Geographical Information Systems (GIS) for Natural Resources**

(A-F only; Prereq: Soph or jr or sr or UHP frTS)  
 22060 001 LEC, 13:55-14:45 TTh, Green Hall 110, In Person Term Based; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22061 002 LAB, 12:50-14:45 W, Skok Hall 35, In Person Term Based; Meets With: 002 FNRM 5131; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22062 003 LAB, 09:35-11:30 Th, Skok Hall 35, In Person Term Based; Meets With: 003 FNRM 5131; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22063 004 LAB, 08:30-10:25 W, Skok Hall 35, In Person Term Based; Meets With: 004 FNRM 5131; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22064 005 LAB, 00:00-00:00 , ONLINE, Completely Online; Meets With: 005 FNRM 5131; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22077 020 LEC, 00:00-00:00 , ONLINE, Completely Online; Andrew Jenks, Paul Bolstad ; 4 cr.  
 22137 021 LAB, 00:00-00:00 , ONLINE, Completely Online; Andrew Jenks, Paul Bolstad ; 4 cr.

**3204 Landscape Ecology and Management (A-F or Audit; Prereq: Ecology course)**

22119 001 LEC, 15:00-16:15 TTh, Skok Hall 100, In Person Term Based; Meets With: 001 FNRM 5204; Lee Frelich ; 3 cr.







32894 002 LEC, 16:40-19:10 W, Folwell Hall 106, In Person Term Based; Meets With: 001 GER 5610001 PHIL 5760; Matthias Rothe ; 3 cr.

## French and Italian (FRIT)

### 5999 Teaching of French and Italian: Theory and Practice (Student Option; )

17278 001 DIS, 14:30-17:00 M, Folwell Hall 10, In Person Term Based; Meets With: 001 SPPT 5999001 GSD 5103; Mandy Menke ; 3 cr.

## Gay, Lesbian, Bisexual, Transg (GLBT)

### 1001 Introduction to GLBT Studies (Student Option; DSJ,SOCS)

20219 001 LEC, 16:00-17:15 TTh, Ford Hall 151, In Person Term Based; Meets With: 001 GWSS 1007; Haley Konitshek ; 3 cr.

### 3309 LGBTQ Literature: Then and Now (Student Option; DSJ,LITR)

21260 001 LEC, 16:00-17:15 MW, Akerman Hall 319, In Person Term Based; Meets With: 001 ENGL 3331; James Cihlar ; 3 cr.

### 3404 Transnational Sexualities (Student Option; GP)

31269 001 LEC, 16:00-17:15 MW, Ford Hall 150, In Person Term Based; Meets With: 001 GWSS 3404; Sima Shakhshari ; 3 cr.

### 3993 Directed Studies

(A-F or Audit; Prereq: GLBT studies minor, instr consent)  
18775 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

### 5993 Directed Study

(Student Option; )  
18776 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-12 cr.

## Gender, Women, & Sexuality Std (GWSS)

### 1001 Gender, Power, and Everyday Life (Student Option; )

19780 001 DIS, 00:00-00:00 , ONLINE, Completely Online; Nina Medvedeva ; 3 cr.  
21365 002 DIS, Completely Online; Lindsay Turner ; 3 cr.  
34942 003 DIS, Completely Online; Caitlin Gunn ; 3 cr.

### 1006 Skin, Sex, and Genes

(Student Option; SOCS,TS)  
20220 001 LEC, 10:10-11:00 MW, Bruininks Hall 412, In Person Term Based; Aren Aizura ; 3 cr.  
20250 002 DIS, 10:10-11:00 F, Ford Hall 115, In Person Term Based; 3 cr.  
20251 004 DIS, 10:10-11:00 F, Ford Hall 127, In Person Term Based; 3 cr.  
20252 005 DIS, 11:15-12:05 F, Ford Hall 127, In Person Term Based; 3 cr.  
21072 007 DIS, 18:00-18:50 W, Ford Hall 127, In Person Term Based; 3 cr.

### 1007 Introduction to GLBT Studies (Student Option; DSJ,SOCS)

20218 001 LEC, 16:00-17:15 TTh, Ford Hall 151, In Person Term Based; Meets With: 001 GLBT 1001; Haley Konitshek ; 3 cr.

### 1913 Ending Sexual Violence at the University of Minnesota

(Student Option; )  
34053 001 DIS, 09:45-11:00 MW, Ford Hall 170, In Person Term Based; Lena Palacios ; 3 cr.

### 3002V Honors: Gender, Race and Class in the U.S.

(A-F only; Prereq: HonorsWI,DSJ)  
21091 001 DIS, 13:00-14:15 TTh, Ford Hall B10, In Person Term Based; Meets With: 001 GWSS 3002W; Eden Torres ; 3 cr.

### 3002W Gender, Race, and Class in the U.S. (A-F only; DSJ,WI)

21090 001 DIS, 13:00-14:15 TTh, Ford Hall B10, In Person Term Based; Meets With: 001 GWSS 3002W; Eden Torres ; 3 cr.

### 3102V Honors: Feminist Thought and Theory

(A-F only; AH,WI,CIV)  
19889 001 LEC, 10:10-11:00 TTh, Blegen Hall 5, In Person Term Based; Meets With: 001 GWSS 3102W; Michelle Garvey ; 3 cr.  
21100 006 DIS, 11:15-12:05 T, Blegen Hall 105, In Person Term Based; Michelle Garvey ; 3 cr.

### 3102W Feminist Thought and Theory

(A-F only; AH,WI,CIV)  
19229 001 LEC, 10:10-11:00 TTh, Blegen Hall 5, In Person Term Based; Meets With: 001 GWSS 3102V; Michelle Garvey ; 3 cr.  
21096 002 DIS, 11:15-12:05 T, Kolthoff Hall 140, In Person Term Based; 3 cr.  
21098 004 DIS, 11:15-12:05 T, Blegen Hall 5, In Person Term Based; 3 cr.  
21099 005 DIS, 11:15-12:05 Th, Blegen Hall 5, In Person Term Based; 3 cr.

### 3303W Writing Differences: Literature by U.S. Women of Color

(Student Option; DSJ,WI,LITR)  
31270 001 DIS, 09:45-11:00 MW, Anderson Hall 230, In Person Term Based; Meets With: 001 AAS 3303W001 ENGL 3303W; Jigna Desai ; 3 cr.

### 3306 Pop Culture Women

(Student Option; AH,DSJ)  
21155 001 DIS, 11:15-12:30 MW, Akerman Hall 319, In Person Term Based; Elizabeth Hartman ; 3 cr.

### 3307 Feminist Film Studies

(Student Option; AH,DSJ)  
20517 001 DIS, 17:00-19:30 Th, Fraser Hall 101, In Person Term Based; Jayne Swift ; 3 cr.

### 3404 Transnational Sexualities

(Student Option; GP)  
31268 001 LEC, 16:00-17:15 MW, Ford Hall 150, In Person Term Based; Meets With: 001 GLBT 3404; Sima Shakhshari ; 3 cr.

### 3490 Topics in Political Economy and Global Studies

(Student Option; )  
35113 001 LEC, Completely Online; Miranda Joseph ; 3 cr.

### 3503 Women and the Law

(Student Option; )  
31271 001 LEC, 17:00-18:15 MW, Amundson Hall 124, In Person Term Based; Lena Palacios ; 3 cr.

### 3993 Directed Study

(Student Option; Prereq instr consent, dept consent, college consent.)  
19230 001 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.  
35245 002 IND, In Person Term Based; Zenzele Isoke ; 1-12 cr.

### 3994 Directed Research

(Student Option; Prereq instr consent, dept consent, college consent.)  
19231 001 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.

### 4003 Science, Bodies, Technologies

(Student Option; )  
31272 001 LEC, 16:00-18:30 T, Amundson Hall 162, In Person Term Based; SeungGyeong Ji ; 3 cr.

### 4107 Feminist Methods

(A-F only; )  
34527 001 DIS, 14:30-17:00 M, Lind Hall 340, In Person Term Based; Aren Aizura ; 3 cr.

### 4108 Senior Capstone: Writing

(A-F only; )  
19523 001 DIS, 14:30-17:00 W, Ford Hall 400, In Person Term Based; Jigna Desai ; 3 cr.

### 4406 Black Feminist Thought in the American and African Diasporas

(Student Option; )  
33292 001 DIS, 09:45-11:00 TTh, Ford Hall 400, In Person Term Based; Meets With: 001 GWSS 5406001 AFRO 4406001 AFRO 5406; Zenzele Isoke ; 3 cr.

### 4980 Directed Instruction

(Student Option; )  
19311 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)  
19301 001 IND, In Person Term Based; 1-5 cr.

### 4994 Directed Research

(Student Option; )  
19312 001 IND, In Person Term Based; 1-8 cr.

### 5406 Black Feminist Thought in the American and African Diasporas

(Student Option; )  
35173 001 DIS, 09:45-11:00 TTh, Ford Hall 400, In Person Term Based; Meets With: 001 GWSS 4406001 AFRO 4406001 AFRO 5406; Zenzele Isoke ; 3 cr.

### 5993 Directed Study

(Student Option; )  
17556 001 IND, In Person Term Based; 1-12 cr.

### 5994 Directed Instruction

(Student Option; )  
17557 001 IND, In Person Term Based; 1-12 cr.

### 5995 Directed Research

(Student Option; )  
17558 001 IND, In Person Term Based; 1-8 cr.

## General Dentistry (GEND)

### 5152 Advanced General Dentistry Seminar II

(S-N or Audit; )  
22996 001 LEC, 00:00-00:00 , , In Person Term Based; James Gambucci ; 5-10 cr.

### 5255 Advanced General Dentistry Clinic II

(S-N or Audit; )  
22998 001 FWK, 00:00-00:00 , , In Person Term Based; James Gambucci ; 5-15 cr.

### 5262 Advanced General Dentistry Clinical Administration II

(S-N or Audit; )  
22997 001 FWK, 00:00-00:00 , , In Person Term Based; James Gambucci ; 5-10 cr.

### 5265 Advanced General Dentistry Clinic V

(S-N or Audit; )  
22999 001 FWK, 00:00-00:00 , , In Person Term Based; James Gambucci ; 1-15 cr.

## Genetics, Cell Biol/Developmnt (GCD)

### 3022 Genetics

(Student Option; Prereq: Introductory biology course such as Biol 1009)  
14745 001 LEC, 14:30-15:45 TTh, Mayo Bldg & Additions C231, In Person Term Based; York Marahrens ; 3 cr.  
15095 002 LEC, 13:00-14:15 TTh, Molecular Cellular Biol 3-120, In Person Term Based; Naoko Shima ; 3 cr.  
33702 090 LEC, Completely Online; Nikunj Somia ; 3 cr.

### 3033 Principles of Cell Biology

(A-F only; Prereq: Biol 1009 or equiv)  
14925 001 LEC, 09:45-11:00 TTh, Bruininks Hall 330, In Person Term Based; Thomas Neufeld, Naomi Courtemanche ; 3 cr.

### 3486 Personal Genome Analysis

(A-F only; Prerequisite is an introductory biology course and Biol 3020 is recommended.)  
33704 001 LEC, 13:25-15:20 MW, Bruininks Hall 420A, In Person Term Based; David Matthes ; 4 cr.

### 4034 Molecular Genetics and Genomics



34556 001 LEC, 13:00-14:15 MW, Blegen Hall 230, In Person Term Based; Adam Bledsoe ; 3 cr.

### 3973 Geography of the Twin Cities

(Student Option; SOCS)

17542 001 LEC, 09:45-11:00 TTh, Anderson Hall 330, In Person Term Based; Meets With: 001 GEOG 1973; Paula Pentel ; 3 cr.

### 3992 Directed Reading

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

17427 001 IND, In Person Term Based; 1-8 cr.  
17530 002 IND, In Person Term Based; 1-8 cr.  
18092 005 IND, In Person Term Based; 1-8 cr.

### 3993 Directed Studies

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

17426 001 IND, 00:00-00:00 , , In Person Term Based; 1-8 cr.  
17531 002 IND, 00:00-00:00 , , In Person Term Based; 1-8 cr.

### 3994 Directed Research

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

17428 001 IND, 00:00-00:00 , , In Person Term Based; 1-8 cr.  
17532 002 IND, 00:00-00:00 , , In Person Term Based; 1-8 cr.

### 3994H Honors: Directed Research

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

20207 001 IND, In Person Term Based; 1-8 cr.

### 3996 Senior Project Directed Research

(A-F only; Prereq instr consent,dept consent,college consent.)

19438 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun ; 3-4 cr.  
20642 002 IND, In Person Term Based; Kate Derickson ; 3-4 cr.  
20643 003 IND, In Person Term Based; Somayeh Dodge ; 3-4 cr.  
20644 004 IND, In Person Term Based; Vinay Gidwani ; 3-4 cr.  
20645 005 IND, In Person Term Based; Kathryn Grace ; 3-4 cr.  
20646 006 IND, In Person Term Based; Daniel Griffin ; 3-4 cr.  
20647 007 IND, In Person Term Based; George Henderson ; 3-4 cr.  
20648 008 IND, In Person Term Based; Kurt Kipfmuller ; 3-4 cr.  
20649 009 IND, In Person Term Based; Katherine Klink ; 3-4 cr.  
20650 010 IND, In Person Term Based; Mark Lindberg ; 3-4 cr.  
20651 011 IND, In Person Term Based; 3-4 cr.  
20652 012 IND, In Person Term Based; 3-4 cr.  
20653 013 IND, In Person Term Based; Arun Saldanha ; 3-4 cr.  
20654 014 IND, In Person Term Based; Abdi Samatar ; 3-4 cr.  
20655 015 IND, In Person Term Based; Eric Shook ; 3-4 cr.  
20656 016 IND, In Person Term Based; Ying Song ; 3-4 cr.  
20657 017 IND, In Person Term Based; Roderick Squires ; 3-4 cr.  
20658 018 IND, In Person Term Based; 3-4 cr.  
20660 019 IND, In Person Term Based; 3-4 cr.

### 3996H Honors: Senior Project Directed Research

(A-F only; Prereq instr consent, dept consent, college consent.)

19439 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun ; 3-4 cr.  
20661 002 IND, In Person Term Based; Kate Derickson ; 3-4 cr.  
20662 003 IND, In Person Term Based; Somayeh Dodge ; 3-4 cr.  
20663 004 IND, In Person Term Based; Vinay Gidwani ; 3-4 cr.  
20664 005 IND, In Person Term Based; Kathryn Grace ; 3-4 cr.  
20665 006 IND, In Person Term Based; Daniel Griffin ; 3-4 cr.  
20666 007 IND, In Person Term Based; George Henderson ; 3-4 cr.  
20667 008 IND, In Person Term Based; Kurt Kipfmuller ; 3-4 cr.  
20668 009 IND, In Person Term Based; Katherine Klink ; 3-4 cr.  
20669 010 IND, In Person Term Based; Mark Lindberg ; 3-4 cr.

20670 011 IND, In Person Term Based; 3-4 cr.  
20671 012 IND, In Person Term Based; 3-4 cr.  
20672 013 IND, In Person Term Based; Arun Saldanha ; 3-4 cr.  
20673 015 IND, In Person Term Based; Eric Shook ; 3-4 cr.  
20674 016 IND, In Person Term Based; Ivan Bialostoksy ; 3-4 cr.  
20675 017 IND, In Person Term Based; Roderick Squires ; 3-4 cr.  
20676 018 IND, In Person Term Based; 3-4 cr.  
20677 019 IND, In Person Term Based; 3-4 cr.  
20679 014 IND, In Person Term Based; Abdi Samatar ; 3-4 cr.

### 3997 Senior Project

(A-F only; Prereq instr consent, dept consent, college consent.)

19440 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun ; 2 cr.  
20680 002 IND, In Person Term Based; Kate Derickson ; 2 cr.  
20681 003 IND, In Person Term Based; Somayeh Dodge ; 2 cr.  
20682 004 IND, In Person Term Based; Vinay Gidwani ; 2 cr.  
20683 005 IND, In Person Term Based; Kathryn Grace ; 2 cr.  
20684 006 IND, In Person Term Based; Daniel Griffin ; 2 cr.  
20685 007 IND, In Person Term Based; George Henderson ; 2 cr.  
20686 008 IND, In Person Term Based; Kurt Kipfmuller ; 2 cr.  
20687 009 IND, In Person Term Based; Katherine Klink ; 2 cr.  
20688 010 IND, In Person Term Based; Mark Lindberg ; 2 cr.  
20689 011 IND, In Person Term Based; 2 cr.  
20690 012 IND, In Person Term Based; 2 cr.  
20691 013 IND, In Person Term Based; Arun Saldanha ; 2 cr.  
20692 014 IND, In Person Term Based; Abdi Samatar ; 2 cr.  
20693 015 IND, In Person Term Based; Eric Shook ; 2 cr.  
20694 016 IND, In Person Term Based; Ying Song ; 2 cr.  
20695 017 IND, In Person Term Based; Roderick Squires ; 2 cr.  
20696 018 IND, In Person Term Based; 2 cr.  
20697 019 IND, In Person Term Based; 2 cr.

### 3997H Honors: Senior Project

(A-F only; Prereq instr consent, dept consent, college consent.)

19441 001 IND, 00:00-00:00 , , In Person Term Based; Bruce Braun ; 2 cr.  
20698 002 IND, In Person Term Based; Kate Derickson ; 2 cr.  
20699 003 IND, In Person Term Based; Somayeh Dodge ; 2 cr.  
20700 004 IND, In Person Term Based; Vinay Gidwani ; 2 cr.  
20701 005 IND, In Person Term Based; Kathryn Grace ; 2 cr.  
20702 006 IND, In Person Term Based; Daniel Griffin ; 2 cr.  
20703 007 IND, In Person Term Based; George Henderson ; 2 cr.  
20704 008 IND, In Person Term Based; Kurt Kipfmuller ; 2 cr.  
20705 009 IND, In Person Term Based; Katherine Klink ; 2 cr.  
20706 010 IND, In Person Term Based; Mark Lindberg ; 2 cr.  
20707 011 IND, In Person Term Based; 2 cr.  
20708 012 IND, In Person Term Based; 2 cr.  
20709 013 IND, In Person Term Based; Arun Saldanha ; 2 cr.  
20710 014 IND, In Person Term Based; Abdi Samatar ; 2 cr.  
20711 015 IND, In Person Term Based; Eric Shook ; 2 cr.  
20712 016 IND, In Person Term Based; Ying Song ; 2 cr.  
20713 017 IND, In Person Term Based; Roderick Squires ; 2 cr.  
20714 018 IND, In Person Term Based; 2 cr.  
20715 019 IND, In Person Term Based; 2 cr.

### 4001 Modes of Geographic Inquiry

(Student Option; )

17842 001 LEC, 11:15-12:30 TTh, Blegen Hall 135, In Person Term Based; Robin Wright ; 4 cr.

### 5511 Principles of Cartography

(Student Option; )

33697 001 LEC, 11:15-12:30 MW, Blegen Hall 435, In Person Term Based; Meets With: 001 GEOG 3511; Mark Lindberg ; 4 cr.  
33698 002 LAB, 13:00-14:55 M, Blegen Hall 455, In Person Term Based; Meets With: 002 GEOG 3511; 4 cr.  
33699 003 LAB, 11:15-13:10 F, Blegen Hall 455, In Person Term Based; Meets With: 003 GEOG 3511; 4 cr.

### 5531 Numerical Spatial Analysis

(Student Option; )

18297 001 LEC, 15:30-16:20 Th, Blegen Hall 445, 15:30-17:25 T, Blegen Hall 445, In Person Term Based; Meets With: 001 GEOG 3531; Andrew Verdin, ; 4 cr.  
18298 002 DIS, 16:35-17:25 Th, Blegen Hall 455, In Person Term Based; Meets With: 002 GEOG 3531; 4 cr.

### 5561 Principles of Geographic Information Science

(Student Option; Prereq: grad)

17256 001 LEC, 13:00-14:15 TTh, Anderson Hall 330, In Person Term Based; Meets With: 001 GEOG 3561; Ying Song ; 4 cr.  
17257 002 LAB, 17:40-19:35 T, Blegen Hall 440, In Person Term Based; Meets With: 002 GEOG 3561; 4 cr.  
17258 003 LAB, 10:10-12:05 W, Blegen Hall 455, In Person Term Based; Meets With: 003 GEOG 3561; 4 cr.  
17259 004 LAB, 15:35-17:30 M, Blegen Hall 455, In Person Term Based; Meets With: 004 GEOG 3561; 4 cr.

### 5839 Introduction to Dendrochronology

(Student Option; Prereq: [1403, BIOL 1001 or BIOL 1009 or equiv]] or instr consent)

21329 001 LEC, 14:30-15:45 TTh, Blegen Hall 220, In Person Term Based; Meets With: 001 GEOG 3839; Scott St. George ; 3 cr.

## German (GER)

### 1001 Beginning German

(Student Option; )

17118 002 DIS, 09:05-09:55 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 002 GER 4001; Kirk Martinson ; 5 cr.  
17119 003 DIS, 11:15-12:05 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 003 GER 4001; Vincent Kancans ; 5 cr.  
17121 005 DIS, 14:30-15:20 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 005 GER 4001; DeeAnn Sime ; 5 cr.  
17122 006 DIS, 18:20-20:25 MW, Folwell Hall 16, In Person Term Based; Meets With: 006 GER 4001; DeeAnn Sime ; 5 cr.  
32784 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 GER 4001; Anthony Bezeroukoff Kahane ; 5 cr.

### 1002 Beginning German

(Student Option; Prereq: 1001)

17157 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 GER 4002; Ari Hoptman ; 5 cr.  
17866 003 DIS, 18:20-20:25 MW, Folwell Hall 123, In Person Term Based; Meets With: 003 GER 4002; Ari Hoptman ; 5 cr.  
20443 002 DIS, 12:20-13:10 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 GER 4002; Helena Ruf ; 5 cr.

### 1003 Intermediate German

(Student Option; Prereq: 1002 or Entrance Proficiency Test)

17158 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 GER 4003; Emily Groepper ; 5 cr.  
17159 003 DIS, 10:10-11:00 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 003 GER 4003; Ari Hoptman ; 5 cr.  
17161 005 DIS, 13:25-14:15 MTWThF, Folwell Hall 8, In Person Term Based; Meets With: 005 GER 4003; Jennifer Peterson ; 5 cr.  
17162 006 DIS, 18:20-20:25 TTh, Folwell Hall 103, In Person Term Based; Meets With: 006 GER 4003; Beth Kautz ; 5 cr.  
32786 002 DIS, 09:05-09:55 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 002 GER 4003; Jennifer Peterson ; 5 cr.

### 1004 Intermediate German

(Student Option; Prereq: 1003 or completion of Entrance Proficiency Test at 1004 level)

17163 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 GER 4004; Virginia Steinhagen ; 5 cr.  
17164 002 DIS, 09:05-09:55 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 GER 4004; DeeAnn Sime ; 5 cr.  
17165 003 DIS, 10:10-11:00 MTWThF, Vincent Hall 213, In Person Term Based; Meets With: 003 GER 4004; Jana Gierden ; 5 cr.  
17841 004 DIS, 13:25-14:15 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 004 GER 4004; Arsenia laneva-Lockney ; 5 cr.  
18069 005 DIS, 18:20-20:25 TTh, Folwell Hall 16, In Person Term Based; Meets With: 005 GER 4004; Arsenia laneva-Lockney ; 5 cr.

### 1022 Beginning German Review

(Student Option; Prereq: Placement above 1001)

17171 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 6, In Person Term Based; Kirk Martinson ; 5 cr.  
17619 002 DIS, 12:20-13:10 MTWThF, Folwell Hall 121, In Person Term Based; Jennifer Peterson ; 5 cr.

**1601 Fleeing Hitler: German and Austrian Filmmakers Between Europe and Hollywood**

(Student Option; AH)  
32837 001 LEC, 16:40-20:40 W, Folwell Hall 104, In Person Term Based; Meets With: 001 JWST 3601; Rick Mc Cormick ; 3 cr.

**3011W Conversation and Composition**

(Student Option; Prereq: 1004WI)  
17183 002 DIS, 14:30-16:25 TTh, Folwell Hall 28, In Person Term Based; Helena Ruf ; 4 cr.  
17184 001 DIS, 09:05-09:55 TWThF, Folwell Hall 103, In Person Term Based; Virginia Steinhagen ; 4 cr.

**3014 German Media**

(Student Option; Prereq: 3011)  
19660 001 DIS, 16:00-17:15 MW, Folwell Hall 28, In Person Term Based; Jenneke Oosterhoff ; 3 cr.

**3104W Reading and Analysis of German Literature**

(Student Option; Prereq: 3011LITR,WI)  
17529 001 DIS, 11:15-12:30 TTh, Nicholson Hall 315, In Person Term Based; Leslie Morris ; 3 cr.  
21391 002 DIS, 13:00-14:15 WF, Nicholson Hall 335, In Person Term Based; Ross Etherton ; 3 cr.

**3431 19th-Century Literature**

(Student Option; Prereq: 3011)  
32829 001 LEC, 14:30-15:45 TTh, Folwell Hall 120, In Person Term Based; Meets With: 001 GER 5410; Ruediger Singer ; 3 cr.

**3501 Contemporary Germany**

(Student Option; Prereq: 3011)  
32830 001 LEC, 09:45-11:00 TTh, Peik Hall 315, In Person Term Based; Ruediger Singer ; 3 cr.

**3604W Introduction to German Cinema**

(Student Option; AH,WI,GP)  
20445 001 LEC, 16:40-20:40 T, Folwell Hall 112, In Person Term Based; Rick Mc Cormick ; 3 cr.

**3651 Thinking Environment: Green Culture, German Literature and Global Debates**

(Student Option; ENV,LITR)  
32831 001 DIS, 13:00-14:15 MW, Peik Hall 28, In Person Term Based; Meets With: 001 GER 5651; Charlotte Melin ; 3 cr.

**3993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
17383 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4001 Beginning German for Graduate Research**

(Student Option; Prereq: Grad student)  
18241 002 DIS, 09:05-09:55 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 002 GER 1001; Kirk Martinson ; 5 cr.  
18242 003 DIS, 11:15-12:05 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 003 GER 1001; Vincent Kancans ; 5 cr.  
18244 005 DIS, 14:30-15:20 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 005 GER 1001; DeeAnn Sime ; 5 cr.  
18256 006 DIS, 18:20-20:25 MW, Folwell Hall 16, In Person Term Based; Meets With: 006 GER 1001; DeeAnn Sime ; 5 cr.  
32785 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 001 GER 1001; Anthony Bezeroukoff Kahane ; 5 cr.

**4002 Beginning German for Graduate Research**

(Student Option; Prereq: Grad student)  
18245 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 GER 1002; Ari Hoptman ; 5 cr.  
18246 003 DIS, 18:20-20:25 MW, Folwell Hall 123, In Person Term Based; Meets With: 003 GER 1002; Ari Hoptman ; 5 cr.  
20444 002 DIS, 12:20-13:10 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 GER 1002; Helena Ruf ; 5 cr.

**4003 Intermediate German for Graduate Research**

(Student Option; Prereq: Grad student)  
18247 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 001 GER 1003; Emily Groepper ; 5 cr.  
18248 003 DIS, 10:10-11:00 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 003 GER 1003; Ari Hoptman ; 5 cr.  
18257 005 DIS, 13:25-14:15 MTWThF, Folwell Hall 8, In Person Term Based; Meets With: 005 GER 1003; Jennifer Peterson ; 5 cr.  
18258 006 DIS, 18:20-20:25 TTh, Folwell Hall 103, In Person Term Based; Meets With: 006 GER 1003; Beth Kautz ; 5 cr.  
32787 002 DIS, 09:05-09:55 MTWThF, Peik Hall 225, In Person Term Based; Meets With: 002 GER 1003; Jennifer Peterson ; 5 cr.

**4004 Intermediate German for Graduate Research**

(Student Option; Prereq: Grad student)  
18250 001 DIS, 08:00-08:50 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 001 GER 1004; Virginia Steinhagen ; 5 cr.  
18251 002 DIS, 09:05-09:55 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 GER 1004; DeeAnn Sime ; 5 cr.  
18252 003 DIS, 10:10-11:00 MTWThF, Vincent Hall 213, In Person Term Based; Meets With: 003 GER 1004; Jana Gierden ; 5 cr.  
18253 004 DIS, 13:25-14:15 MTWThF, Folwell Hall 16, In Person Term Based; Meets With: 004 GER 1004; Arsenia laneva-Lockney ; 5 cr.  
18254 005 DIS, 18:20-20:25 TTh, Folwell Hall 16, In Person Term Based; Meets With: 005 GER 1004; Arsenia laneva-Lockney ; 5 cr.

**5011 Advanced Conversation and Composition**

(Student Option; Prereq: 3012, [grad student or adv undergrad])  
20860 001 DIS, 17:30-20:00 M, Folwell Hall 120, In Person Term Based; Arsenia laneva-Lockney ; 3 cr.

**5410 Topics in German Literature**

(Student Option; )  
32857 001 DIS, 14:30-15:45 TTh, Folwell Hall 120, In Person Term Based; Meets With: 001 GER 3431; Ruediger Singer ; 3 cr.  
32858 002 DIS, 16:00-17:15 TTh, Folwell Hall 3, In Person Term Based; Matthias Rothe ; 3 cr.

**5610 German Literature in Translation**

(Student Option; Prereq: No knowledge of German required; cr toward major or minor requires reading in German)  
33069 001 DIS, 16:40-19:10 W, Folwell Hall 106, In Person Term Based; Meets With: 002 FREN 5350001 PHIL 5760; Matthias Rothe ; 3 cr.

**5651 Thinking Environment: Green Culture, German Literature and Global Debates**

(Student Option; ENV,LITR)  
32832 001 DIS, 13:00-14:15 MW, Peik Hall 28, In Person Term Based; Meets With: 001 GER 3651; Charlotte Melin ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq instr consent, dept consent, college consent.)  
17374 001 IND, 00:00-00:00 , , In Person Term Based; James Parente, Anatoly Liberman ; 1-4 cr.

**German, Scandinavian, and Dutch (GSD)****3511W Vikings, Knights, and Reformers: German and European Culture and Controversies to 1700**

(Student Option; WI)  
17623 001 LEC, 11:15-12:30 TTh, Folwell Hall 108, In Person Term Based; James Parente ; 3 cr.

**5103 Teaching of Germanic Languages**

(Student Option; )  
17252 001 DIS, 14:30-17:00 M, Folwell Hall 10, In Person Term Based; Meets With: 001 SPPT 5999001 FRIT 5999; Mandy Menke ; 3 cr.

**Gerontology (GERO)****Global Studies (GLOS)****1015W Globalization: Issues and Challenges**

(Student Option; GP,WI)  
19511 001 LEC, 11:15-12:30 MW, Anderson Hall 250, In Person Term Based; Meets With: 001 HIST 1015W; Thomas Wolfe ; 4 cr.  
20214 002 DIS, 14:30-15:20 W, Blegen Hall 415, In Person Term Based; Meets With: 002 HIST 1015W; 4 cr.  
20215 003 DIS, 12:20-13:10 Th, Blegen Hall 225, In Person Term Based; Meets With: 003 HIST 1015W; 4 cr.  
20216 004 DIS, 13:25-14:15 W, Blegen Hall 140, In Person Term Based; Meets With: 004 HIST 1015W; 4 cr.  
20217 005 DIS, 11:15-12:05 Th, Blegen Hall 225, In Person Term Based; Meets With: 005 HIST 1015W; 4 cr.

**1112 Social Justice and Globalization (A-F only; GP)**

33596 001 LEC, 14:30-15:45 MW, Blegen Hall 120, In Person Term Based; Ajay Skaria ; 3 cr.

**3105 Ways of Knowing in Global Studies (Student Option; )**

20563 001 LEC, 16:00-18:30 W, Blegen Hall 220, In Person Term Based; Rachel Schurman ; 3 cr.

**3144 Knowledge, Power, and the Politics of Representation in Global Studies**

(A-F only; Prereq: soph, jr, or sr )  
17267 001 LEC, 10:10-11:00 MW, Anderson Hall 270, In Person Term Based; Meets With: 001 GLOS 3144H; William Viestenz ; 3 cr.  
17869 002 DIS, 10:10-11:00 F, Blegen Hall 115, In Person Term Based; Jose Aguirre ; 3 cr.  
17870 003 DIS, 11:15-12:05 F, Blegen Hall 115, In Person Term Based; Jose Aguirre ; 3 cr.  
17871 004 DIS, 10:10-11:00 F, Blegen Hall 205, In Person Term Based; Timothy Frye ; 3 cr.  
17872 006 DIS, 10:10-11:00 F, Blegen Hall 225, In Person Term Based; Ketaki Jaywant ; 3 cr.  
18733 005 DIS, 11:15-12:05 F, Blegen Hall 145, In Person Term Based; Timothy Frye ; 3 cr.

**3144H Honors: Knowledge, Power, and the Politics of Representation in Global Studies**

(A-F only; Prereq: Honors soph, jr, or sr)  
17990 001 LEC, 10:10-11:00 MW, Anderson Hall 270, In Person Term Based; Meets With: 001 GLOS 3144; William Viestenz ; 3 cr.  
17991 002 DIS, 10:10-11:00 F, Blegen Hall 330, In Person Term Based; William Viestenz ; 3 cr.

**3278 Tigers and Dragons: The Rise of the East Asian Economies, 1930-Present (Student Option; )**

33684 001 LEC, 18:20-20:50 T, Walter W Heller Hall 1210B&C, In Person Term Based; Meets With: 001 HIST 3478; Christopher Isett ; 3 cr.

**3303 Environment and Development in the Third World**

(A-F or Audit; Prereq: Soph or jr or srENV,SOCS)  
20564 001 LEC, 17:00-19:30 T, Blegen Hall 10, In Person Term Based; Meets With: 001 GEOG 3379; Abdi Samatar ; 3 cr.

**3305 Life for Sale: Global Debates on Environment, Science, and Society (A-F only; )**

20173 001 LEC, 11:15-12:30 TTh, Nicholson Hall 145, In Person Term Based; Susan Craddock ; 3 cr.

**3401W International Human Rights Law (A-F or Audit; Prereq: [3145, 3144] or instr consentGP,WI)**

17931 001 LEC, 17:30-20:15 Th, Blegen Hall 220, In Person Term Based; Hassan Abdel Salam ; 3 cr.

**3412 What is Equality?**

(A-F only; CIV)  
33852 001 LEC, 14:30-15:45 MW, Blegen Hall 220, In Person Term Based; Thomas Wolfe ; 3 cr.

**3415W Global Institutions of Power: World Bank, International Monetary Fund, and World Trade Organization**







14331 003 IND, Independent/Directed Study; Brad Hokanson ; 1-4 cr.  
 14332 004 IND, Independent/Directed Study; Daniel Jasper ; 1-4 cr.  
 14333 005 IND, Independent/Directed Study; Barbara Martinson ; 1-4 cr.  
 14334 006 IND, Independent/Directed Study; Steven McCarthy ; 1-4 cr.  
 14335 007 IND, Independent/Directed Study; Carol Waldron ; 1-4 cr.  
 14522 008 IND, Independent/Directed Study; Eugene Park ; 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)  
 14612 001 LAB, 08:30-10:25 TTh, McNeal Hall 262, In Person Term Based; Meets With: 001 GDES 3311; John Owens ; 3 cr.

### 5341 Interaction Design

(A-F or Audit; Prereq: [[2334 or 2342], design minor] or graphic design major or grad student or instr consent)  
 14609 001 LAB, 11:45-13:40 MW, McNeal Hall 146, In Person Term Based; Eugene Park ; 3 cr.

### 5342 Advanced Web Design

(A-F or Audit; Prereq: [[2334 or 2342], design minor] or graphic design major or grad student or instr consent)  
 14460 001 LAB, 15:00-16:55 MW, McNeal Hall 146, In Person Term Based; Eugene Park ; 3 cr.

## Greek (GRK)

### 1001 Beginning Classical Greek I

(Student Option; )  
 17930 001 LEC, 11:15-12:05 MTWThF, Nicholson Hall 115, In Person Term Based; Stephen Smith ; 5 cr.

### 3003 Intermediate Greek Prose

(Student Option; Prereq: Grade of at least C- or S in 1002 or 5001 or instr consent)  
 17212 001 LEC, 13:25-14:15 MTWTh, Ford Hall 155, In Person Term Based; Meets With: 001 GRK 5003; S. Douglas Olson ; 4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent)  
 18373 001 IND, 00:00-00:00 , , In Person Term Based; Stephen Smith ; 1-4 cr.  
 19351 002 IND, 00:00-00:00 , , In Person Term Based; S. Douglas Olson ; 1-4 cr.  
 19352 003 IND, 00:00-00:00 , , In Person Term Based; George Sheets ; 1-4 cr.  
 19353 004 IND, 00:00-00:00 , , In Person Term Based; Andrew Gallia ; 1-4 cr.  
 19354 005 IND, 00:00-00:00 , , In Person Term Based; Spencer Cole ; 1-4 cr.  
 19355 006 IND, 00:00-00:00 , , In Person Term Based; Melissa Sellow ; 1-4 cr.  
 19356 007 IND, 00:00-00:00 , , In Person Term Based; Nita Krevans ; 1-4 cr.

### 4951W Major Project

(A-F only; Prereq: Greek major, three 3xxx Greek courses, instr consent, dept consentWI)  
 18372 001 IND, 00:00-00:00 , , In Person Term Based; 4 cr.

### 5003 Intermediate Greek Prose for

Graduate Student Research  
 (Student Option; Prereq: Grade of at least [C- or S] in [1002 or 5001] or [instr consent, grad student])  
 18626 001 LEC, 13:25-14:15 MTWTh, Ford Hall 155, In Person Term Based; Meets With: 001 GRK 3003; S. Douglas Olson ; 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.)  
 34008 001 LEC, 09:45-11:00 TTh, Appleby Hall 219, In Person Term Based; S. Douglas Olson ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq Grad student or instr consent.)  
 18374 001 IND, 00:00-00:00 , , In Person Term Based; Stephen Smith ; 1-4 cr.  
 18506 002 IND, 00:00-00:00 , , In Person Term Based; S. Douglas Olson ; 1-4 cr.  
 19357 003 IND, 00:00-00:00 , , In Person Term Based; George Sheets ; 1-4 cr.

19358 004 IND, 00:00-00:00 , , In Person Term Based; Andrew Gallia ; 1-4 cr.  
 19359 005 IND, 00:00-00:00 , , In Person Term Based; Spencer Cole ; 1-4 cr.  
 19360 006 IND, 00:00-00:00 , , In Person Term Based; Melissa Sellow ; 1-4 cr.  
 19361 007 IND, 00:00-00:00 , , In Person Term Based; Nita Krevans ; 1-4 cr.

### 5994 Directed Research

(Student Option; Prereq Grad student or instr consent.)  
 17177 001 IND, In Person Term Based; 1-12 cr.

### 5996 Directed Instruction

(Student Option; Prereq Grad student or instr consent.)  
 17176 001 IND, In Person Term Based; 1-12 cr.

## Health Informatics (HINF)

### 5394 Directed Research

(S-N only; )  
 34712 001 IND, In Person Term Based; Jessica Nielson ; 1-6 cr.

### 5430 Foundations of Health Informatics I

(A-F or Audit; Prereq: Junior, senior, grad student, professional student, or instr consent)  
 13878 001 LEC, 15:35-18:35 Th, Moos Health Sci Tower 1-430, In Person Term Based; David Pieczkiewicz ; 3 cr.  
 13989 002 LEC, 00:00-00:00 , ONLINE, Completely Online; David Pieczkiewicz ; 3 cr.

### 5436 AHC Informatics Grand Rounds

(S-N or Audit; )  
 14143 001 LEC, 15:30-16:30 T, Moos Health Sci Tower 2-620, In Person Term Based; Aaron Sarver ; 1 cr.  
 35112 002 LEC, Completely Online; Aaron Sarver ; 1 cr.

### 5450 Foundations of Precision Medicine

Informatics  
 (Student Option; )  
 32848 001 LEC, 13:00-14:15 MW, AHC ROOM TBA, In Person Term Based; Terrence Adam ; 3 cr.

### 5496 Internship in Health Informatics

(S-N or Audit; Prereq: HINF student or instr consent)  
 13885 001 FWK, 00:00-00:00 , , Independent/Directed Study; David Pieczkiewicz ; 1-6 cr.

### 5499 Capstone Project for the Masters of Health Informatics

(A-F only; Prereq: second semester MHI student or instr consent)  
 13888 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)  
 14054 001 LEC, 00:00-00:00 , ONLINE, Completely Online; James Rosenthal ; 1 cr.

### 5510 Applied Health Care Databases:

Database Principles and Data Evaluation  
 (A-F or Audit; Prereq: Junior or senior or grad student or professional student or instr consent)  
 13965 001 LEC, 15:35-16:25 MWF, Moos Health Sci Tower 2-120, In Person Term Based; David Pieczkiewicz ; 3 cr.  
 13995 002 LEC, 00:00-00:00 , ONLINE, Completely Online; 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)  
 32851 001 LAB, 09:05-12:05 F, Moos Health Sci Tower 2-120, In Person Term Based; Gyorgy Simon ; 3 cr.

## Health Services Management (HSM)

### 3040 Dying and Death in Contemporary

Society: Implications for Intervention  
 (Student Option; Prerequisite: sophomore )  
 34746 301 LEC, Completely Online; Ellen Koski ; 2 cr.  
 34746 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. )  
 29943 101 LEC, 17:00-18:50 M, Bruininks Hall 512B, Partially Online; Carol Grannis, Nickolas Nyhus ; 2 cr.  
 29944 301 LEC, Completely Online; Steven Comingdeer, Cecilia Quattromani ; 2 cr.  
 29944 301 LEC, Completely Online; Steven Comingdeer, Cecilia Quattromani ; 2 cr.

### 3521 Health Care Delivery Systems

(A-F or Audit; Prereq: 30 cr)  
 29857 101 LEC, 18:00-20:45 T, Bruininks Hall 330, Partially Online; Melanie Sullivan, William McDonough ; 3 cr.

### 4041 Leadership in Health Services Management

(A-F or Audit; )  
 34558 101 LEC, 13:25-16:10 Th, Blegen Hall 255, Partially Online; Yvonne Kinney, John Reynolds ; 3 cr.

### 4043 Project and Program Management in Health Services Management

(A-F or Audit; Prerequisites: None)  
 29945 101 LEC, 11:15-14:00 F, Bruininks Hall 512B, Partially Online; Scott Lee-Eichenwald, Cheri Jacoby ; 3 cr.

### 4065 Information Privacy and Security in Health Services Management

(A-F or Audit; TS)  
 29941 101 LEC, 18:00-20:45 T, Bruininks Hall 512A, Partially Online; Scott Lee-Eichenwald, Adam Stone ; 3 cr.

### 4301 Health Care Quality & Patient Safety Management

(A-F or Audit; )  
 29902 101 LEC, 15:35-18:20 Th, Bruininks Hall 330, Partially Online; Tania Daniels, Steven Mulder ; 3 cr.

### 4531 Human Resources in Health Care Settings

(A-F or Audit; Prereq: 45 cr)  
 29903 101 LEC, 18:35-21:20 Th, Bruininks Hall 330, 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.)  
 29904 101 LEC, 18:00-20:45 W, Bruininks Hall 114, Partially Online; Mark Sharockman, Brad Plowman ; 3 cr.

### 4561W Health Care Administration and Management

(A-F or Audit; WI)  
 29858 001 LEC, 18:00-20:45 W, Bruininks Hall 432, In Person Term Based; Bill Kenney ; 3 cr.

### 4582 Practicum in Long Term Care

(A-F or Audit; Prereq: Most prelicensure courses completed--at a minimum, HSM 4580-LTC Organizational Management; HSM 4589-LTC Human Resource Management; HSM 4583-LTC Supports and Services; HSM 4590-LTC Gerontology for Health Care Managers. )  
 29949 401 LEC, Independent/Directed Study; Rajean Moore ; 4 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.)  
 29955 001 LEC, 08:00-16:30 T, Room TBA, In Person Term Based; Rajean Moore ; 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. )  
 29950 001 LEC, 08:00-16:30 T, Room TBA, In Person Term Based; Rajean Moore ; 1 cr.





**3856 The Civil Rights and Black Power Movement, 1954-1984**

(Student Option; )  
21212 001 LEC, 18:00-20:45 W, Blegen Hall 255, In Person Term Based; Meets With: 001 AFRO 3866001 AFRO 5866001 PA 5490; Keith Mayes ; 3 cr.

**3862 American Immigration History**

(Student Option; DSJ,HIS)  
33005 001 LEC, 08:15-09:30 TTh, Blegen Hall 240, In Person Term Based; Meets With: 001 AAS 3862; James Mcelroy ; 3 cr.

**3872 American Indian History: 1830 to the Present**

(Student Option; DSJ,HIS)  
21039 001 LEC, 16:00-18:30 W, Blegen Hall 240, In Person Term Based; Meets With: 001 AMIN 3872; Jean O'Brien ; 3 cr.

**3980W Supplemental Writing in History**

(Student Option; Prereq: instr consent; must take a 3-cr 3xxx or 5xxx course taken concurrentlyWI)  
17535 001 LEC, In Person Term Based; 1 cr.

**3993 Directed Study**

(A-F or Audit; Prereq instr consent, dept consent, college consent.)  
17520 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.

**3994 Directed Research**

(A-F or Audit; Prereq: instr consent, dept consent, college consent)  
17521 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.

**4010V Honors: Research Seminar**

(A-F or Audit; Prereq: Jr or sr history major, honors, or instr consentWI)  
35450 001 LEC, 09:45-10:25 TTh, Hubert H. Humphrey School 35, In Person Term Based; Daniel Schroeter ; 4 cr.

**4010W Research Seminar**

(A-F or Audit; Prereq: Jr or Sr history major or instr consentWI)  
34571 001 LEC, 11:15-12:55 MW, Blegen Hall 140, In Person Term Based; Patrick McNamara ; 4 cr.  
34572 002 LEC, 09:45-11:25 TTh, Hubert H. Humphrey School 15, In Person Term Based; Daniel Schroeter ; 4 cr.

**4961V Honors: Major Paper**

(A-F only; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)  
18921 002 LEC, 13:00-14:40 TTh, Blegen Hall 230, In Person Term Based; Meets With: 002 HIST 4961W; Sarah Chambers ; 4 cr.

**4961W Major Paper**

(A-F or Audit; Prereq: dept consent, instr consent; sign up in Undergraduate Studies Office two sem in advanceWI)  
20100 002 LEC, 13:00-14:40 TTh, Blegen Hall 230, In Person Term Based; Meets With: 002 HIST 4961V; Sarah Chambers ; 4 cr.

**4970 Historical Internship**

(Student Option; )  
18663 001 FWK, 15:35-17:30 W, , Independent/Directed Study; Joseph Haker ; 1-12 cr.

**5264 Imperial Russia: Formation and Expansion of the Russian Empire in the 18th and 19th Centuries**

(Student Option; )  
19239 001 LEC, 10:10-11:00 MWF, Blegen Hall 135, In Person Term Based; Meets With: 001 HIST 3264; Theofanis Stavrou ; 3 cr.

**5801 Seminar in Early American History**

(A-F or Audit; )  
33002 001 LEC, 15:25-17:20 Th, Walter W Heller Hall 1229, In Person Term Based; Kirsten Fischer ; 3 cr.

**5890 Readings in American Indian and Indigenous History**

(A-F or Audit; Prereq: Advanced undergrad with instr consent or grad student)  
33976 001 LEC, 15:35-17:30 T, Walter W Heller Hall 1229, 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; )  
34604 001 DIS, 15:15-17:30 F, Walter W Heller Hall 1210, In Person Term Based; Jean O'Brien ; 1.5 cr.

**5993 Directed Study**

(Student Option; Prereq [Grad student or sr], instr consent, dept consent, college consent.)  
18239 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.

**5994 Directed Research**

(Student Option; Prereq [Grad student or sr], instr consent, dept consent, college consent.)  
17522 001 IND, 00:00-00:00 , , In Person Term Based; 1-16 cr.

**History of Medicine (HMED)****3001W Health, Disease, and Healing I**

(Student Option; HIS,WI)  
27480 001 LEC, 10:10-11:00 MWF, Akerman Hall 209, In Person Term Based; Adam Borrego ; 4 cr.  
27481 002 DIS, 11:15-12:05 W, Ford Hall 170, In Person Term Based; 4 cr.  
27482 003 DIS, 13:25-14:15 W, Akerman Hall 327, In Person Term Based; 4 cr.  
27715 004 DIS, 10:10-11:00 Th, Appleby Hall 11, In Person Term Based; 4 cr.  
27716 005 DIS, 11:15-12:05 Th, Appleby Hall 302, In Person Term Based; 4 cr.

**3075 Technology and Medicine in Modern America**

(Student Option; HIS,TS)  
28064 001 LEC, 11:15-12:05 MW, Bruininks Hall 432, In Person Term Based; Dominique Tobbell ; 3 cr.  
28080 002 DIS, 11:15-12:05 Th, Nicholson Hall 110, In Person Term Based; Dominique Tobbell ; 3 cr.  
28081 003 DIS, 12:20-13:10 Th, Nicholson Hall 110, In Person Term Based; Dominique Tobbell ; 3 cr.  
28082 004 DIS, 11:15-12:05 F, Amundson Hall 162, In Person Term Based; Dominique Tobbell ; 3 cr.  
28367 005 DIS, 11:15-12:05 F, Amundson Hall 158, In Person Term Based; Dominique Tobbell ; 3 cr.

**3993 Directed Study**

(Student Option; )  
34908 001 IND, In Person Term Based; Francesca Bortoletti, Dominique Tobbell, Jennifer Gunn ; 1-4 cr.

**4965W Senior Research in Medical History**

(A-F only; Prereq: Sr, instr consentWI)  
28144 001 LEC, 14:30-17:00 T, Bruininks Hall 420A, In Person Term Based; Peter Kernahan ; 3 cr.

**History of Science and Tech (HSCI)****1585 Mammoths, Minerals, Monoculture: History of Earth and Environmental Science**

(Student Option; HIS)  
34978 001 LEC, 11:15-12:05 MWF, Amundson Hall 120, In Person Term Based; Anna Graber ; 3 cr.

**1714 Stone Tools to Steam Engines: Technology and History to 1750**

(Student Option; HIS,TS)  
26269 001 LEC, 13:25-14:15 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 HSCI 3714; Jennifer Alexander ; 3-4 cr.  
33543 002 DIS, 14:30-15:20 M, Rapson Hall 58, In Person Term Based; Meets With: 002 HSCI 3714; Jennifer Alexander ; 3-4 cr.  
33544 003 DIS, 13:25-14:15 T, Tate Hall B85, In Person Term Based; Meets With: 003 HSCI 3714; Jennifer Alexander ; 3-4 cr.  
33545 004 DIS, 13:25-14:15 Th, Tate Hall B85, In Person Term Based; Meets With: 004 HSCI 3714; Jennifer Alexander ; 3-4 cr.  
33546 005 DIS, 10:10-11:00 W, Appleby Hall 303, In Person Term Based; Meets With: 005 HSCI 3714; Jennifer Alexander ; 3-4 cr.  
33547 006 DIS, 10:10-11:00 F, Bruininks Hal 121, In Person Term Based; Jennifer Alexander ; 3-4 cr.  
33548 007 DIS, 14:30-15:20 W, Cooke Hall 215, In Person Term Based; Jennifer Alexander ; 3-4 cr.

33549 008 DIS, 13:25-14:15 Th, Kolthoff Hall 132, In Person Term Based; Jennifer Alexander ; 3-4 cr.  
33550 009 DIS, 11:15-12:05 F, Bruininks Hall 121, In Person Term Based; Jennifer Alexander ; 3-4 cr.

**1715 History of Modern Technology: Waterwheels to the Web**

(Student Option; HIS,TS)  
26343 001 LEC, 18:00-20:45 M, Bruininks Hall 512A, In Person Term Based; Meets With: 001 HSCI 3715; Mary Thomas ; 3-4 cr.  
26417 002 LEC, 18:00-20:45 W, Bruininks Hall 312, In Person Term Based; Meets With: 002 HSCI 3715; Mary Thomas ; 3-4 cr.

**1814 Revolutions in Science: The Babylonians to Newton**

(Student Option; GP,HIS)  
26259 001 LEC, 10:10-11:00 MWF, Nicholson Hall 35, In Person Term Based; Meets With: 001 HSCI 3814; Adam Fix ; 3-4 cr.  
26261 002 DIS, 11:15-12:05 M, Ford Hall 170, In Person Term Based; Meets With: 002 HSCI 3814; Adam Fix ; 3-4 cr.  
26262 003 DIS, 10:10-11:00 T, Vincent Hall 301, In Person Term Based; Meets With: 003 HSCI 3814; Adam Fix ; 3-4 cr.  
26263 004 DIS, 14:30-15:20 W, Civil Engineering Bldg 213, In Person Term Based; Meets With: 004 HSCI 3814; Adam Fix ; 3-4 cr.  
26264 005 DIS, 09:05-09:55 F, Bruininks Hall 144, In Person Term Based; Meets With: 005 HSCI 3814; Adam Fix ; 3-4 cr.

**3211 Biology and Culture in the 19th and 20th Centuries**

(Student Option; CIV,HIS)  
25695 001 LEC, 11:15-12:30 TTh, Armory Building 202, In Person Term Based; Meets With: 001 HSCI 5211; Mark Borrello ; 3 cr.

**3244 Nature's History: Science, Humans, and the Environment**

(Student Option; ENV,HIS)  
25689 001 LEC, 09:45-11:00 TTh, Bruininks Hall 432, In Person Term Based; Meets With: 001 HSCI 5244; Susan Jones ; 3 cr.

**3401 Ethics in Science and Technology**

(Student Option; CIV,HIS)  
26314 001 LEC, 14:30-15:45 TTh, Tate Hall 101, In Person Term Based; Meets With: 001 HSCI 5401; Honghong Tinn ; 3 cr.

**3714 Stone Tools to Steam Engines: Technology and History to 1750**

(Student Option; HIS,TS)  
26272 001 LEC, 13:25-14:15 MWF, Rapson Hall 100, In Person Term Based; Meets With: 001 HSCI 1714; Jennifer Alexander ; 3-4 cr.  
33557 002 DIS, 14:30-15:20 M, Rapson Hall 58, In Person Term Based; Meets With: 002 HSCI 1714; Jennifer Alexander ; 3-4 cr.  
33558 003 DIS, 13:25-14:15 T, Tate Hall B85, In Person Term Based; Meets With: 003 HSCI 1714; Jennifer Alexander ; 3-4 cr.  
33559 004 DIS, 13:25-14:15 Th, Tate Hall B85, In Person Term Based; Meets With: 004 HSCI 1714; Jennifer Alexander ; 3-4 cr.  
33560 005 DIS, 10:10-11:00 W, Appleby Hall 303, In Person Term Based; Meets With: 005 HSCI 1714; Jennifer Alexander ; 3-4 cr.

**3715 History of Modern Technology: Waterwheels to the Web**

(Student Option; HIS,TS)  
26271 001 LEC, 18:00-20:45 M, Bruininks Hall 512A, In Person Term Based; Meets With: 001 HSCI 1715; Mary Thomas ; 3-4 cr.  
26834 002 LEC, 18:00-20:45 W, Bruininks Hall 312, In Person Term Based; Meets With: 002 HSCI 1715; Mary Thomas ; 3-4 cr.

**3814 Revolutions in Science: The Babylonians to Newton**

(Student Option; GP,HIS)  
26260 001 LEC, 10:10-11:00 MWF, Nicholson Hall 35, In Person Term Based; Meets With: 001 HSCI 1814; Adam Fix ; 3-4 cr.  
26265 002 DIS, 11:15-12:05 M, Ford Hall 170, In Person Term Based; Meets With: 002 HSCI 1814; Adam Fix ; 3-4 cr.

26266 003 DIS, 10:10-11:00 T, Vincent Hall 301, In Person Term Based; Meets With: 003 HSCI 1814; Adam Fix ; 3-4 cr.  
 26267 004 DIS, 14:30-15:20 W, Civil Engineering Bldg 213, In Person Term Based; Meets With: 004 HSCI 1814; Adam Fix ; 3-4 cr.  
 26268 005 DIS, 09:05-09:55 F, Bruininks Hall 144, In Person Term Based; Meets With: 005 HSCI 1814; Adam Fix ; 3-4 cr.

### 4321 History of Computing (Student Option; HIS,TS)

26413 001 LEC, 13:00-14:15 TTh, Mechanical Engineering 221, In Person Term Based; Meets With: 001 CSCI 4921; Honghong Tinn ; 3 cr.

### 5211 Biology and Culture in the 19th and 20th Centuries (Student Option; CIV)

26225 001 LEC, 11:15-12:30 TTh, Armory Building 202, In Person Term Based; Meets With: 001 HSCI 3211; Mark Borrello ; 3 cr.

### 5244 Nature's History: Science, Humans, and the Environment (Student Option; )

25690 001 LEC, 09:45-11:00 TTh, Bruininks Hall 432, In Person Term Based; Meets With: 001 HSCI 3244; Susan Jones ; 3 cr.

### 5401 Ethics in Science and Technology (Student Option; )

26315 001 LEC, 14:30-15:45 TTh, Tate Hall 101, In Person Term Based; Meets With: 001 HSCI 3401; Honghong Tinn ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent)  
 24494 001 IND, 00:00-00:00 , , In Person Term Based; Sally Kohlstedt, Jennifer Alexander ; 1-15 cr.  
 26115 002 IND, 00:00-00:00 , , In Person Term Based; 1-15 cr.  
 26783 003 IND, In Person Term Based; 1-15 cr.

### 5994 Directed Research

(Student Option; Prereq: instr consent)  
 24493 001 IND, 00:00-00:00 , , In Person Term Based; Anna Graber ; 1-15 cr.

## Hmong (HMNG)

### 1011 Beginning Hmong I

(Student Option No Audit; )  
 18755 050 LEC, 15:35-17:55 MW, Folwell Hall 107, In Person Term Based; Meets With: 050 HMNG 4001; Kia Yang ; 5 cr.  
 18973 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 001 HMNG 4001; Bee Vang ; 5 cr.  
 33482 350 LEC, 15:35-17:55 MW, University Square ITV Room 320, In Person Term Based; Kia Yang ; 5 cr.

### 1015 Accelerated Beginning Hmong

(Student Option No Audit; Prereq: Ability in basic spoken Hmong)  
 19253 050 LEC, 16:40-17:30 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 050 HMNG 4005; Bee Vang ; 5 cr.

### 3021 Intermediate Hmong I

(Student Option No Audit; Prereq: Hmng 1002 or Hmng 1012 or Hmng 1015)  
 18024 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 119, In Person Term Based; Meets With: 001 HMNG 4003; Kia Yang ; 5 cr.  
 19256 050 LEC, 15:35-17:55 TTh, Folwell Hall 103, In Person Term Based; Meets With: 050 HMNG 4003; Kia Yang ; 5 cr.

### 3290 Hmong Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 3022)  
 18325 001 FWK, In Person Term Based; Bee Vang ; 1 cr.

### 3993 Directed Studies

(Student Option No Audit; Prereq: instr consent, dept consent, college consent)  
 19623 001 IND, In Person Term Based; Bee Vang ; 1-5 cr.

### 4001 Beginning Hmong I for Graduate Student Research (Student Option No Audit; )

18876 050 LEC, 15:35-17:55 MW, Folwell Hall 107, In Person Term Based; Meets With: 050 HMNG 1011; Kia Yang ; 5 cr.  
 18974 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 3, In Person Term Based; Meets With: 001 HMNG 1011; Bee Vang ; 5 cr.

### 4003 Intermediate Hmong I for Graduate Student Research

(Student Option No Audit; Prereq: 4002)  
 18186 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 119, In Person Term Based; Meets With: 001 HMNG 3021; Kia Yang ; 5 cr.  
 19257 050 LEC, 15:35-17:55 TTh, Folwell Hall 103, In Person Term Based; Meets With: 050 HMNG 3021; Kia Yang ; 5 cr.

## Honors Colloquia (HCOL)

### 3102H The Honors Thesis?Writing

(A-F only; )  
 33730 001 DIS, 10:10-11:50 F, Room TBA, In Person Term Based; Patrick Nunnally, Milena Saqui-Salces ; 1 cr.

## Honors Seminar (HSEM)

### 2009H Contemporary Art and Politics:

From Marcel Duchamp to Ai Weiwei  
(A-F only; GP)  
 23171 001 DIS, 16:00-17:15 MW, Vincent Hall 206, In Person Term Based; Meng Tang ; 3 cr.

### 2043H Finding the "Corporate Soul":

Corporate advocacy, social responsibility, and community engagement  
(A-F only; )  
 23234 001 DIS, 13:00-14:15 TTh, Nicholson Hall 345, In Person Term Based; Amy O'Connor ; 3 cr.

### 2053H The Psychology of Paranormal Phenomena

(A-F only; )  
 23228 001 DIS, 09:45-11:00 TTh, Northrop Memorial Aud 240, In Person Term Based; Charles Fletcher ; 3 cr.

### 2065H Making Museums

(A-F only; )  
 33501 001 DIS, 09:45-11:00 WF, Ford Hall 155, In Person Term Based; Margaret Werry ; 3 cr.

### 2242H Einstein's Universe

(A-F only; )  
 33527 001 DIS, 13:00-14:15 MW, Nicholson Hall 345, In Person Term Based; Michel Janssen ; 3 cr.

### 2413H Ideas, Insights, and Innovation

(A-F only; )  
 33502 001 DIS, 09:45-11:00 TTh, Carlson School of Mgmt 1-136, In Person Term Based; Tobin Nord ; 3 cr.

### 2515H Experiencing Local Environmental Solutions

(A-F only; )  
 33243 001 DIS, 14:30-16:25 Th, Nicholson Hall 335, In Person Term Based; Paul Capel ; 2 cr.

### 2541V Campus Obscura: A University of Minnesota Cabinet of Curiosity

(A-F only; HIS,WI)  
 35516 001 DIS, 15:35-18:05 W, Vincent Hall 209, In Person Term Based; Sally Kohlstedt ; 3 cr.

### 2624H "Reality 101" - A Survey of the Human Predicament

(A-F only; )  
 23172 001 DIS, 10:10-11:00 F, Nicholson Hall 345, 09:45-11:00 MW, Northrop Memorial Aud 240, In Person Term Based; Nathan Hagens ; 4 cr.  
 23173 002 DIS, 11:15-12:05 F, Nicholson Hall 345, 11:15-12:30 MW, Northrop Memorial Aud 240, In Person Term Based; Nathan Hagens ; 4 cr.

### 2707H Battling the Bugs: Anthrax, Ebola, and Everyday Life - PubH Strategies for Prevention & Control

(A-F only; )  
 23174 001 DIS, 13:00-14:15 MW, Northrop Memorial Aud 240, In Person Term Based; Jill DeBoer, Michael Osterholm ; 3 cr.

### 2801H Think Like a Lawyer: The Art and Adventure of Torts

(A-F only; CIV)  
 23175 001 DIS, 15:35-18:20 T, Carlson School of Mgmt L-126, In Person Term Based; Bobak Ha'eri ; 3 cr.

### 3066H The Tale of Genji: A View of Aristocratic Culture in Early Japan

(A-F only; )  
 33039 001 DIS, 14:30-15:45 TTh, Nicholson Hall 345, In Person Term Based; Paul Rouzer ; 3 cr.

### 3069H Literature and Medicine

(A-F only; )  
 33505 001 DIS, 11:15-12:30 TTh, Nicholson Hall 345, In Person Term Based; Katherine Scheil ; 3 cr.

### 3205H A Resilient, Just, Water Future: Living with the Mississippi River

(A-F only; )  
 23235 001 DIS, 14:30-15:45 MW, Northrop Memorial Aud 240, In Person Term Based; Patrick Nunnally ; 3 cr.

### 3308V Incarceration and the Family

(A-F only; Prereq: [Jr or sr] honors studentWI)  
 33425 001 DIS, 09:05-12:05 F, Nicholson Hall 355, In Person Term Based; Rebecca Schlafer ; 3 cr.

### 3327H Resilience in Children and Youth: Global Perspectives on Overcoming Trauma and Disaster

(A-F only; )  
 33504 001 DIS, 15:30-18:00 M, Child Development 105, In Person Term Based; Ann Masten ; 3 cr.

### 3413H The Corporation in Question

(A-F only; )  
 33506 001 DIS, 11:15-12:30 TTh, Hubert H. Humphrey School 30, In Person Term Based; Ian Maitland ; 3 cr.

### 3511H Science Court: Strengthening Democracy through Rational Discourse

(A-F only; CIV)  
 23257 001 DIS, 18:00-20:30 T, Mechanical Engineering 221, In Person Term Based; Ellad Tadmor ; 3 cr.

### 3801H Modern China: Law, History, and Culture

(A-F only; GP)  
 33041 001 DIS, 16:00-18:30 Th, Carlson School of Mgmt L-122, In Person Term Based; Chang Wang ; 3 cr.

### 3803H The Politics of Legal Policy

(A-F only; )  
 33261 001 DIS, 13:00-14:15 WF, Mondale Hall 7, In Person Term Based; Herbert Kritzer ; 3 cr.

## Horticultural Science (HORT)

### 1001 Plant Propagation

(Student Option; BIOL)  
 21636 001 LEC, 11:45-13:00 TTh, Borlaug Hall 335, In Person Term Based; Meets With: 001 HORT 6011; Alan Smith ; 4 cr.  
 21637 002 LAB, 09:35-11:30 T, Plant Growth Facility 140A, In Person Term Based; Meets With: 002 HORT 6011; Alan Smith, Laura Irish ; 4 cr.  
 21638 003 LAB, 13:15-15:10 T, Plant Growth Facility 140A, In Person Term Based; Meets With: 003 HORT 6011; Alan Smith, Laura Irish ; 4 cr.  
 21639 004 LAB, 09:35-11:30 Th, Plant Growth Facility 140A, In Person Term Based; Meets With: 004 HORT 6011; Alan Smith, Laura Irish ; 4 cr.  
 21640 005 LAB, 13:15-15:10 Th, Plant Growth Facility 140A, In Person Term Based; Meets With: 005 HORT 6011; Alan Smith, Laura Irish ; 4 cr.

### 1013 Floral Design

(Student Option; )  
 22297 003 LEC, Completely Online; Neil Anderson ; 3 cr.

### 1015 Woody and Herbaceous Plants

(A-F only; )

21839 002 LAB, 09:35-11:30 TTh, Plant Growth Facility 140B, In Person Term Based; Stan Hokanson ; 4 cr.  
21840 003 LAB, 11:45-13:40 TTh, Plant Growth Facility 140B, In Person Term Based; Stan Hokanson ; 4 cr.  
21841 001 LEC, 08:30-09:20 TTh, Plant Growth Facility 140A/B, In Person Term Based; Stan Hokanson ; 4 cr.  
21957 004 LAB, 13:55-15:50 TTh, Plant Growth Facility 140B, In Person Term Based; Stan Hokanson ; 4 cr.

### 1031 Vines and Wines: Introduction to Viticulture and Enology

(Student Option No Audit; Prereq: 21 yrs of age by date of 1st class meeting)  
21862 001 LEC, 17:10-18:15 M, Alderman Hall 405, Partially Online; James Luby ; 3 cr.  
21863 002 DIS, 18:15-20:00 M, Alderman Hall 405, In Person Term Based; James Luby ; 3 cr.

### 1061 The Sustainable Lawn

(Student Option; )  
21925 301 LEC, 00:00-00:00 , ONLINE, Completely Online; Eric Watkins ; 3 cr.

### 1090 Directed Studies

(Student Option; Prereq: instr consent or department permission)  
22004 001 IND, 00:00-00:00 , Independent/Directed Study; 1-3 cr.

### 1942 The American Law

(A-F only; TS)  
33223 001 LEC, 12:50-15:20 M, Alderman Hall 310, In Person Term Based; Eric Watkins ; 3 cr.

### 2100 Agricultural Biochemistry

(A-F only; Prereq: CHEM 1015/1017 or CHEM 1061 instr consent)  
21918 001 LEC, 08:30-09:20 MWF, Green Hall 110, In Person Term Based; Adrian Hegeman ; 3 cr.

### 3090 Directed Studies

(Student Option; Prereq: Nonfr, instr consent)  
21921 001 IND, 00:00-00:00 , In Person Term Based; 1-3 cr.

### 3131 Student Organic Farm Planning, Growing, and Marketing

(Student Option; )  
22200 001 LEC, 11:45-12:35 TTh, Alderman Hall 310, In Person Term Based; Julie Grossman ; 3 cr.  
22201 002 LAB, 09:35-11:30 T, Plant Growth Facility 132, In Person Term Based; Julie Grossman ; 3 cr.

### 4011 Common Medicinal Plants: Classification, Identification and Application

(Student Option; )  
34332 001 LEC, 12:45-14:45 F, Plant Growth Facility 140A, 11:45-12:45 W, Plant Growth Facility 140A, In Person Term Based; Changbin Chen ; 3 cr.

### 4062 Turfgrass Weed and Disease Science

(A-F only; )  
31644 001 LAB, Completely Online; Eric Watkins ; 3 cr.

### 4096 Professional Experience Program: Internship

(S-N only; Prereq: CFANS undergrad, completed internship contract prior to employment)  
21635 001 FWK, 00:00-00:00 , In Person Term Based; Mary Rogers ; 1 cr.

### 4096W Professional Experience Program: Internship

(A-F only; Prereq: CFANS undergradW)  
21979 001 FWK, 00:00-00:00 , Independent/Directed Study; Mary Rogers ; 2 cr.

### 4111 Prairie Perennials and Grasses

(A-F only; Prereq: HORT 1015)  
31652 001 LEC, 17:30-20:30 TTh, Ruttan Hall B22, In Person Term Based; Mary Meyer ; 1 cr.

### 5031 Fruit Production and Viticulture for Local and Organic Markets

(A-F or Audit; Prereq: [1001, 3005] or instr consent)  
31637 001 LEC, 15:00-16:20 TTh, Alderman Hall 310, In Person Term Based; Emily Hoover, Matthew Gullickson ; 3 cr.

### 5071 Ecological Restoration

(Student Option; Prereq: [One college course in ecology, one college course in [plant science or botany]] or instr consent)  
22177 001 LEC, 16:30-18:30 TTh, Lrng & Environmental Sci 230, In Person Term Based; Meets With: 001 ESPM 5071; Susan Galatowitsch ; 4 cr.

### 5090 Directed Studies

(Student Option; Prereq: 8 cr upper div Hort courses, instr consent)  
22162 001 IND, 00:00-00:00 , In Person Term Based; 1-3 cr.

## Housing Studies (HSG)

### 3462 Housing and Community Development

(A-F or Audit; )  
14658 001 LEC, 09:45-11:00 TTh, Blegen Hall 260, In Person Term Based; Meets With: 001 HSG 5462; Becky Yust ; 3 cr.

### 4160H Honors Capstone Project

(A-F only; Prereq: Housing studies honors)  
14432 001 LEC, In Person Term Based; Becky Yust ; 2 cr.  
14433 003 LEC, In Person Term Based; Marilyn Bruin ; 2 cr.  
14434 004 LEC, In Person Term Based; 2 cr.

### 4193 Directed Study in Housing Studies

(A-F or Audit; Prereq: Undergrad, instr consent)  
14358 002 IND, Independent/Directed Study; Becky Yust ; 1-4 cr.  
14675 001 IND, In Person Term Based; Marilyn Bruin ; 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)  
14360 001 FWK, Independent/Directed Study; Becky Yust ; 1-4 cr.  
14361 002 FWK, Independent/Directed Study; Marilyn Bruin ; 1-4 cr.

### 4467W Housing and the Social Environment

(A-F or Audit; WI)  
14581 001 LEC, 14:30-18:05 T, Blegen Hall 205, In Person Term Based; Meets With: 001 HSG 5467; Becky Yust ; 4 cr.

### 5193 Directed Study in Housing Studies

(A-F or Audit; Prereq: Jr or sr or grad student)  
14364 001 IND, Independent/Directed Study; Becky Yust ; 1-4 cr.  
14365 002 IND, Independent/Directed Study; Marilyn Bruin ; 1-4 cr.

### 5462 Housing and Community Development

(A-F only; )  
33130 001 LEC, 09:45-11:00 TTh, Blegen Hall 260, In Person Term Based; Meets With: 001 HSG 3462; Becky Yust ; 3 cr.

### 5467 Housing and the Social Environment

(A-F or Audit; )  
14582 001 LEC, 14:30-18:05 T, Blegen Hall 205, In Person Term Based; Meets With: 001 HSG 4467W; Becky Yust ; 4 cr.

## Human Factors (HUMF)

### 5001 Foundations of Human Factors/ Ergonomics

(A-F or Audit; Prereq: Grad HumF major or minor or instr consent)  
14209 001 LEC, 14:30-17:00 W, Armory Building 202, In Person Term Based; Meets With: 001 KIN 5001; Thomas Smith ; 3 cr.

### 5193 Directed Study in Human Factors and Ergonomics

(A-F only; Prereq: instr consent)  
14553 001 IND, In Person Term Based; Lucy Dunne ; 1-4 cr.  
14585 002 IND, In Person Term Based; ; 1-4 cr.  
14592 003 IND, In Person Term Based; ; 1-4 cr.  
14597 004 IND, In Person Term Based; ; 1-4 cr.

### 5211 Human Factors and Work Analysis

(A-F or Audit; )  
14276 001 LEC, 10:10-12:05 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 IE 5511001 IE 4511; Nichole Morris ; 4 cr.

## Human Resources/Indus Rel (HRIR)

### 3021 Human Resource Management and Strategy

(A-F only; Prereq: ECON 1101, ECON 1102, PSY 1001)  
22482 002 LEC, 13:00-14:15 TTh, Hanson Hall 1-106, In Person Term Based; Larry Bourgerie ; 3 cr.  
22488 003 LEC, 14:30-15:45 TTh, Hanson Hall 1-106, In Person Term Based; Amy Simon ; 3 cr.  
22542 020 LEC, 16:00-18:30 T, Carlson School of Mgmt L-110, In Person Term Based; Larry Bourgerie ; 3 cr.  
22596 021 LEC, 17:45-20:15 T, Hanson Hall 1-102, In Person Term Based; Amy Simon ; 3 cr.  
22702 001 LEC, 11:15-12:30 TTh, Hanson Hall 1-106, In Person Term Based; Larry Bourgerie ; 3 cr.

### 3041 Organizational Behavior: Work Motivation and Workplace Dynamics

(Student Option; )  
22681 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Jee Young Seo ; 2 cr.

### 3042 Organizational Behavior: Groups and Teams

(Student Option; )  
22682 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 2-213, In Person Term Based; Jee Young Seo ; 2 cr.

### 3051 Compensation: Theory and Practice

(Student Option; )  
22458 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-213, In Person Term Based; Peter Ronza ; 2 cr.

### 5000 Topics in Human Resource Management and Strategy

(Student Option; )  
33858 070 LEC, Completely Online; Sid Benraouane ; 2 cr.

### 5252 Employment and Labor Law for the HRIR Professional

(Student Option; Prereq: HRIR MA student must register A-F, 3021, [CSOM or HRD junior or senior or dept consent])  
22901 060 LEC, 17:45-21:05 M, Carlson School of Mgmt 1-147, In Person Term Based; Carol O'Toole ; 2 cr.

### 5442 Employee Performance Management: Strategies, Systems, and Skills

(Student Option; Prereq: HRIR MA student must register A-F, 3021, [CSOM or HRD junior or senior or dept consent])  
22710 060 LEC, 17:45-21:05 W, Hanson Hall 1-111, In Person Term Based; Larry Bourgerie ; 2 cr.

### 5443 Principles of Effective Coaching

(Student Option; Prereq: HRIR MA student must register A-F, 3021, [CSOM or HRD junior or senior or dept consent])  
22717 070 LEC, 00:00-00:00 , ONLINE, Completely Online; Sid Benraouane ; 2 cr.

### 5655 Public Policies on Work and Pay

(Student Option; Prereq: HRIR MA student must register A-F, ECON 1101, [CSOM or HRD junior or senior or dept consent])  
22881 060 LEC, 18:00-20:45 T, Carlson School of Mgmt 1-136, In Person Term Based; Meets With: 001 PA 5431; Morris Kleiner ; 3 cr.

### 5662 Personnel Economics

(Student Option; Prereq: Prereq-HRIR MA student must register A-F, ECON 1101, [CSOM or HRD junior or senior or dept consent])  
31411 060 LEC, 17:45-21:05 W, Carlson School of Mgmt L-122, 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)  
22430 001 IND, 00:00-00:00 , In Person Term Based; 1-8 cr.

**Industrial Engineering (IE)****1101 Foundations of Industrial and Systems Engineering**

(A-F only; Prereq: [MATH 1372 or equiv], CSE student)  
26310 001 LEC, 14:30-16:25 TTh, Smith Hall 100, In Person Term Based; Darin England ; 4 cr.

**2021 Engineering Economics**

(A-F only; Prereq: [MATH 1372 or equiv], CSE student)  
26311 001 LEC, 13:25-15:20 MW, Smith Hall 331, In Person Term Based; Lisa Miller ; 4 cr.

**3011 Optimization I**

(A-F only; Prereq: 1101, MATH 2374, MATH 2373, Upper Division CSE)  
26365 001 LEC, 10:10-12:05 MW, Keller Hall 3-230, In Person Term Based; Jean-Philippe Richard ; 4 cr.  
26868 883 LEC, 10:10-12:05 MW, ONLINE, Completely Online; Jean-Philippe Richard ; 4 cr.

**3041 Industrial Assignment I**

(A-F or Audit; Prereq: ISyE upper division, registration in ME co-op program)  
26734 001 FWK, In Person Term Based; Frank Kelso ; 2 cr.

**3521 Statistics, Quality, and Reliability**

(Student Option; Prereq: MATH 1372 or equiv)  
24445 001 LEC, 10:10-11:55 TTh, Amundson Hall B75, In Person Term Based; Krishnamurthy Iyer ; 4 cr.  
24568 002 LEC, 15:35-17:20 TTh, Keller Hall 3-230, In Person Term Based; Krishnamurthy Iyer ; 4 cr.  
26725 883 LEC, 15:35-17:20 TTh, ONLINE, Completely Online; Krishnamurthy Iyer ; 4 cr.

**3553 Simulation**

(A-F only; Prereq: CSCI 1133, IE 3521, ISyE major)  
26991 001 LEC, 13:25-15:20 MW, Mechanical Engineering 18, In Person Term Based; Darin England ; 4 cr.

**4043W Industrial Assignment II**

(A-F or Audit; Prereq: 3041WI)  
26735 001 FWK, In Person Term Based; Frank Kelso ; 4 cr.

**4044 Industrial Assignment III**

(A-F only; Prereq: IE 4043, registration in ME co-op program)  
26736 001 FWK, In Person Term Based; Frank Kelso ; 2 cr.

**4091 Independent Study**

(A-F only; )  
26737 001 IND, In Person Term Based; 1-4 cr.

**4094 Directed Research**

(A-F only; )  
26738 001 IND, In Person Term Based; 1-4 cr.

**4096 Curricular Practical Training**

(S-N only; )  
26739 001 FWK, In Person Term Based; Lisa Miller ; 1 cr.  
35478 002 FWK, In Person Term Based; Lisa Miller ; 1 cr.

**4511 Human Factors**

(A-F only; Prereq: ISyE senior)  
26367 001 LEC, 10:10-12:05 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 HUMF 5211001 IE 5511; Nichole Morris ; 4 cr.

**4541W Project Management**

(A-F only; Prereq: ISyE seniorWI)  
26366 001 LEC, 13:25-16:45 T, Bruininks Hall 432, In Person Term Based; Mimi Wong ; 4 cr.

**4894H Senior Honors Thesis**

(A-F only; )  
26740 001 IND, In Person Term Based; 2 cr.

**5111 Systems Engineering I**

(A-F or Audit; Prereq: CSE upper div or grad student)  
25527 001 LEC, 18:10-20:00 M, Mechanical Engineering 108, In Person Term Based; Anton Beck, Andrew Fried ; 2 cr.  
25861 883 LEC, 18:10-20:00 M, ONLINE, Completely Online; Andrew Fried, Anton Beck ; 2 cr.

**5441 Financial Decision Making**

(A-F only; Prereq: CSE upper div or grad student)  
25996 001 LEC, 09:05-11:00 WF, Mechanical Engineering 102, In Person Term Based; Ankur Mani ; 4 cr.  
27110 883 LEC, 09:05-11:00 WF, ONLINE, Completely Online; Ankur Mani ; 4 cr.

**5511 Human Factors and Work Analysis**

(A-F or Audit; Prereq: Upper div CSE or grad student)  
24443 001 LEC, 10:10-12:05 TTh, Anderson Hall 270, In Person Term Based; Meets With: 001 HUMF 5211001 IE 4511; Nichole Morris ; 4 cr.

**5524 Process Transformation through Lean Tools**

(A-F only; )  
33135 001 LEC, 16:00-17:45 M, Mechanical Engineering 221, In Person Term Based; Mimi Wong, Jeremiah Johnson ; 2 cr.

**5531 Engineering Optimization I**

(Student Option; Prereq: Upper div or grad student or CNR)  
24446 001 LEC, 11:15-13:10 MW, Keller Hall 3-115, In Person Term Based; Meets With: 001 MATH 5711; Yiling Zhang ; 4 cr.  
26816 883 LEC, 11:15-13:10 MW, ONLINE, Completely Online; Yiling Zhang ; 4 cr.

**5532 Stochastic Models**

(Student Option; Prereq: Undergraduate probability and statistics. Familiarity with computer programming in a high level language.)  
26641 001 LEC, 10:10-12:05 TTh, Keller Hall 3-115, In Person Term Based; Kevin Leder ; 4 cr.  
26957 883 LEC, 10:10-12:05 TTh, ONLINE, Completely Online; Kevin Leder ; 4 cr.

**5541 Project Management**

(A-F only; Prereq: Upper div or grad student)  
24570 001 LEC, 18:10-21:30 T, Bruininks Hall 312, In Person Term Based; Mimi Wong ; 4 cr.

**5773 Practice-focused Seminar**

(S-N or Audit; )  
26992 001 LEC, 15:35-16:25 W, Lind Hall 305, In Person Term Based; Sherwin Doroudi ; 1 cr.

**5801 Capstone Project**

(A-F only; Prerequisites: ISyE Analytics Track MS Student; IE 5531; IE 5561; Stat 5302; CSci 5521 or 5523.)  
26993 001 LEC, 14:30-16:25 TTh, Room TBA, In Person Term Based; William Cooper ; 4 cr.

**Information Networking (INET)****1001 Survey of Information Technology**

(A-F or Audit; )  
29845 301 LEC, Completely Online; Scott Lee-Eichenwald ; 1 cr.  
29845 301 LEC, Completely Online; Scott Lee-Eichenwald ; 1 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])  
29708 001 LEC, 18:00-21:35 T, Bruininks Hall 114, In Person Term Based; Mark Langanki ; 2 cr.

**3102 Web Infrastructure**

(A-F or Audit; Prereq: [3101, CSCI 2021] or equiv IT experience)  
29792 001 LEC, 18:00-21:35 T, Akerman Hall 225, In Person Term Based; Nathan Tymeson ; 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.)  
29933 001 LEC, 18:00-20:45 W, Bruininks Hall 530A, In Person Term Based; John Raabe ; 3 cr.

**4007 Security II: Cyber Security**

(A-F only; Prerequisites. Basic knowledge of security issues and processes (detection, risk assessment, technology, secure design, business continuity, forensics, and legal aspects) is recommended. If you have taken INet 4165, you will be well prepared. If you are unsure about whether your knowledge is sufficient for success in this class, contact the instructor.)  
29897 001 LEC, 18:00-21:35 T, Appleby Hall 11, In Person Term Based; Norman Owens ; 4 cr.

**4011 Networking I: Network Administration**

(A-F or Audit; Prereq: CSCI 4211-Introduction to Computer Networks or equivalent networking knowledge and understanding.)  
29901 001 LEC, 18:00-21:35 W, Ford Hall B15, In Person Term Based; Nathan Tymeson ; 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.)  
29898 001 LEC, 18:00-21:35 Th, Akerman Hall 225, In Person Term Based; Joseph Axberg ; 4 cr.

**4032 Systems I: Storage**

(A-F or Audit; Prereq: Fundamental understanding of an operating system such as Microsoft Windows, Linux, or Apple OSX, in the areas of file systems, I/O, computer architecture, and basic administration.)  
29733 001 LEC, 18:00-21:35 T, Akerman Hall 211, In Person Term Based; Carl Follstad ; 4 cr.

**4051 IT Infrastructure Operations**

(A-F or Audit; Prereq: senior; CSCI 4211 or instr consent )  
29893 301 LEC, Completely Online; Scott Lee-Eichenwald ; 3 cr.  
29893 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)  
29899 001 LEC, 18:00-21:35 M, Keller Hall 2-260, In Person Term Based; Katherine Splett, Derrick Malone ; 4 cr.

**4082W IT Infrastructure Projects and Processes**

(A-F or Audit; Prereq: 45 cr recommendedWI)  
29875 101 LEC, 18:00-20:45 T, Keller Hall 2-260, Partially Online; Katherine Nguyen ; 3 cr.

**4121 DevOps II: Development Strategies**

(A-F or Audit; Prereqs: CSCI 4061 or operating system knowledge, basic knowledge of Python)  
29884 001 LEC, 18:00-21:35 M, Appleby Hall 319, In Person Term Based; Jonathan Silverman ; 4 cr.

**4153 Introduction to Security: Policy and Regulation**

(A-F or Audit; Prereq: experience with Windows/Internet; 45 semester credits)  
29697 001 LEC, 18:00-21:35 Th, Bruininks Hall 512B, In Person Term Based; John Raabe ; 4 cr.

**4193 Directed Study**

(A-F or Audit; Prereq: [ITI student, dept consent]  
29686 401 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.

**4596 Internship**

(A-F only; Prereq: [ITI major or certificate student], [jr or sr], dept consent)  
29717 401 FWK, Independent/Directed Study; John Raabe ; 1-3 cr.  
29718 402 FWK, Independent/Directed Study; John Raabe ; 1-3 cr.  
29852 403 FWK, Independent/Directed Study; John Raabe ; 1-3 cr.  
35005 404 FWK, Independent/Directed Study; John Raabe ; 1-3 cr.  
35006 405 FWK, Independent/Directed Study; John Raabe ; 1-3 cr.  
35007 406 FWK, Independent/Directed Study; Nathan Tymeson ; 1-3 cr.

**4707 Introduction to Databases**

(A-F or Audit; Prereq: CSci 4061, at least 45 cr completed; CSci majors contact CSci Dept before registering.)  
29807 001 LEC, 18:00-21:35 M, Bruininks Hall 420B, In Person Term Based; Rich Howey ; 4 cr.

**Information and Decision Sci (IDSC)****3001 Introduction to Information Technology in Business**

(A-F or Audit; )  
22689 001 LEC, 09:45-11:00 MW, Hanson Hall 1-106, In Person Term Based; Timothy Olson ; 3 cr.  
22690 002 LEC, 08:15-09:30 TTh, Hanson Hall 1-106, In Person Term Based; Timothy Olson ; 3 cr.

22691 003 LEC, 11:15-12:30 TTh, Hanson Hall 1-104, In Person Term Based; Yuqing Ren ; 3 cr.  
 22692 020 LEC, 17:45-20:15 T, Hanson Hall 1-106, In Person Term Based; Donald Riley ; 3 cr.  
 22693 004 LEC, 16:00-17:15 MW, Hanson Hall 1-104, In Person Term Based; Kevin Kuhn ; 3 cr.  
 22729 005 LEC, 11:15-12:30 MW, Hanson Hall 1-106, In Person Term Based; Timothy Olson ; 3 cr.

### 3001H Honors: Information Systems for Business Processes and Management (A-F or Audit; )

22654 001 LEC, 09:45-11:00 TTh, Carlson School of Mgmt L-122, In Person Term Based; Yuqing Ren ; 3 cr.

### 3101 Introduction to Programming (A-F or Audit; )

22556 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.  
 22646 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

### 3102 Intermediate Programming (A-F or Audit; )

22557 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.  
 22651 002 LEC, 15:45-17:25 MW, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.

### 3103 Data Modeling and Databases (A-F only; )

22558 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.  
 22655 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt L-117, In Person Term Based; Vedran Lelas ; 2 cr.  
 22841 003 LEC, 13:45-15:25 MW, Carlson School of Mgmt L-118, In Person Term Based; Scott Schanke ; 2 cr.

### 3104 Enterprise Systems (A-F or Audit; Prereq: 3001)

22559 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Kevin Kuhn ; 2 cr.  
 22850 001 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-132, In Person Term Based; Christina Jeong ; 2 cr.  
 22884 003 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-142, In Person Term Based; Kevin Kuhn ; 2 cr.

### 3202 Analysis and Modeling of Business Systems (A-F or Audit; Prereq: 3001)

22479 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt 2-213, In Person Term Based; Sofia Bapna ; 4 cr.  
 22723 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 2-213, In Person Term Based; Sofia Bapna ; 4 cr.

### 4110 Data Engineering for Business Analytics (A-F only; )

22832 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Ken Reily ; 2 cr.  
 22858 002 LEC, 09:55-11:35 TTh, Carlson School of Mgmt L-117, In Person Term Based; Ken Reily ; 2 cr.  
 34749 003 LEC, 15:45-17:25 TTh, Carlson School of Mgmt L-117, In Person Term Based; Ken Reily ; 2 cr.

### 4204W Strategic Information Technology Management (A-F or Audit; WI)

22588 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-127, In Person Term Based; Gautam Ray ; 4 cr.  
 22679 002 LEC, 13:45-15:25 MW, Carlson School of Mgmt 1-127, In Person Term Based; Gautam Ray ; 4 cr.  
 22757 003 LEC, 15:45-17:25 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Ryan Sougstad ; 4 cr.

### 4210 Interactive Data Visualization for Business Analytics (A-F only; )

22833 002 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-224, In Person Term Based; Ryan Sougstad ; 2 cr.  
 22895 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Ryan Sougstad ; 2 cr.

### 4301 MIS in Action: A Capstone Course (A-F only; )

22656 001 LEC, 08:00-09:40 MW, Carlson School of Mgmt 1-142, In Person Term Based; Timothy Olson ; 2 cr.

### 4401 Information Security (A-F only; Prereq: 3001)

22898 020 LEC, 17:45-21:05 T, Carlson School of Mgmt 1-142, In Person Term Based; Matt Schmidt ; 2 cr.

### 4411 Information Technology Governance and Assurance (A-F only; Prereq: 3001)

22650 020 LEC, 17:45-21:05 W, Carlson School of Mgmt 1-123, In Person Term Based; Matt Schmidt ; 2 cr.

### 4441 Electronic Commerce (A-F or Audit; Prereq: 3001)

22505 001 LEC, 15:45-17:25 MW, Carlson School of Mgmt 2-213, In Person Term Based; Ryan Sougstad ; 2 cr.

### 4444 Descriptive and Predictive Analytics (A-F only; Prereq: 3001)

22798 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-135, In Person Term Based; Meizi Zhou ; 2 cr.  
 22896 002 LEC, 11:50-13:30 MW, Carlson School of Mgmt 1-135, In Person Term Based; Edward McFowland ; 2 cr.

### 4455 Web 2.0: The Business of Social Media (A-F only; Prereq: 3001)

22708 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt 1-114, In Person Term Based; Sofia Bapna ; 2 cr.

### 4490 Information Systems Special Topics (A-F or Audit; )

34055 001 LEC, 08:00-09:40 TTh, Carlson School of Mgmt 2-233, In Person Term Based; Ken Reily, Corinne (Corrie) Fiedler ; 2 cr.

### 4491 Independent Study in Information Systems (A-F only; Prereq: instr consent)

22722 001 IND, 00:00-00:00 , In Person Term Based; Ken Reily, Corinne (Corrie) Fiedler ; 1-4 cr.

## Insurance and Risk Management (INS)

### 4100 Corporate Risk Management (Student Option; )

22445 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt 2-215, In Person Term Based; Meets With: 001 INS 6100; Andrew Whitman ; 2 cr.

### 4101 Employee Benefits (Student Option; )

22503 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt L-114, In Person Term Based; Meets With: 001 INS 6101; Andrew Whitman ; 2 cr.

### 4200 Insurance Theory and Practice (Student Option; )

22683 020 LEC, 17:45-21:05 W, Hanson Hall 1-105, In Person Term Based; Meets With: 090 INS 6200; Andrew Whitman ; 2 cr.

## Inter-College Program (ICP)

### 3101W Inter-College Program Proposal Development (A-F only; Prereq: ICP student or instr consent(WI))

33885 102 LEC, 14:30-16:25 T, Nicholson Hall 335, Partially Online; Steven Wandler, Josh Borowicz ; 2 cr.

## Interdepartmental Study (ID)

### 2201 Career Kickstarter: Building Career Experiences as a Second-Year Student (Student Option No Audit; )

20487 003 DIS, 16:00-17:15 Th, Tate Hall 120, In Person Term Based; Nick Goffard ; 1 cr.  
 20640 002 DIS, 11:15-12:30 T, Nicholson Hall 110, In Person Term Based; Keelin Yennet ; 1 cr.  
 21143 001 DIS, 08:15-09:30 T, Appleby Hall 103, In Person Term Based; True Xiong ; 1 cr.

### 3101 Major and Career Exploration for Transfer Students (Student Option; )

17094 003 LEC, 14:30-16:25 M, Kolthoff Hall 140, In Person Term Based; Joyce Halverson ; 2 cr.  
 21151 002 LEC, 09:05-11:00 Th, Bruininks Hal 121, In Person Term Based; Katy Hinz ; 2 cr.  
 33227 001 LEC, 14:30-16:25 W, Bruininks Hal 121, In Person Term Based; Chelsea Ochoa ; 2 cr.

### 3201 Career Planning

#### (Student Option; )

17095 001 DIS, 10:10-12:05 T, Kolthoff Hall 137, In Person Term Based; Erica Tealey ; 2 cr.  
 17897 002 DIS, 12:20-14:15 T, Bruininks Hall 144, In Person Term Based; Erica Tealey ; 2 cr.  
 18270 003 DIS, 10:10-12:05 W, Bruininks Hall 117, In Person Term Based; Abby Trout ; 2 cr.  
 20638 004 DIS, 14:30-16:25 Th, Bruininks Hall 420B, In Person Term Based; Ana Eliason ; 2 cr.  
 21152 005 DIS, 12:20-14:15 Th, Bruininks Hall 144, In Person Term Based; Ana Eliason ; 2 cr.

### 3205 Law School Exploration (Student Option; )

33229 001 LEC, 10:10-12:05 W, Appleby Hall 319, In Person Term Based; Erin Reichelt ; 2 cr.

### 3896 Internship Reflection: Making Meaning of Your Experience

#### (Student Option; Prereq: dept consent)

18794 001 DIS, 00:00-00:00 , ONLINE, Completely Online; Charlene Myers ; 1 cr.  
 33909 002 DIS, 00:00-00:00 , ONLINE, Completely Online; Charlene Myers ; 1 cr.

## Interior Design (IDES)

### 1601 Interior Design Studio I

#### (A-F or Audit; Prereq: Interior design pre-major or interior environments minor)

14171 001 LAB, 08:30-11:30 MW, McNeal Hall 470, In Person Term Based; Roger Karlson ; 4 cr.  
 14199 003 LAB, 15:00-18:00 TTh, McNeal Hall 470, In Person Term Based; Hande Burcu Deniz ; 4 cr.  
 14543 002 LAB, 15:00-18:00 MW, McNeal Hall 470, In Person Term Based; Meghan Hendrickson ; 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)

14284 002 FWK, Independent/Directed Study; Tasoulla Hadjiyanni ; 1-4 cr.  
 14285 003 FWK, Independent/Directed Study; Genell Ebbini ; 1-4 cr.  
 14286 004 FWK, Independent/Directed Study; Stephanie Zollinger ; 1-4 cr.  
 14466 001 FWK, Independent/Directed Study; Abimbola Asojo ; 1-4 cr.  
 35298 005 FWK, In Person Term Based; Meghan Hendrickson ; 1-4 cr.

### 2603 Interior Design Studio III

#### (A-F only; Prereq: [1602 or DHA 1602] with grade of at least C-, pass portfolio review, interior design major)

14172 001 LAB, 09:35-12:35 MW, McNeal Hall 475, In Person Term Based; Meghan Hendrickson ; 4 cr.  
 31734 002 LAB, 09:35-12:35 MW, McNeal Hall 480, In Person Term Based; Noorh Albadi ; 4 cr.

### 2613 Interior Structures, Systems, and Life Safety

#### (A-F only; )

14498 001 LEC, 13:55-15:50 MW, McNeal Hall 316, In Person Term Based; Becky Yust ; 4 cr.

### 3161 History of Interiors and Furnishings: Ancient to 1750

#### (A-F or Audit; GP)

14287 001 LEC, 12:50-14:45 MW, McNeal Hall 10, In Person Term Based; Stephanie Zollinger ; 4 cr.

### 3606 Interior Design Studio VI

#### (A-F only; Prereq: [2604 or DHA 2604], 2612)

14464 001 LAB, 09:35-12:35 MW, McNeal Hall 233, In Person Term Based; Meets With: 002 IDES 3606; Genell Ebbini ; 4 cr.  
 14647 002 LAB, 09:35-12:35 MW, McNeal Hall 233, In Person Term Based; Meets With: 001 IDES 3606; Genell Ebbini ; 4 cr.

### 3612 Lighting Design

#### (A-F only; )

14511 001 LEC, 09:35-11:30 TTh, McNeal Hall 233, In Person Term Based; Meets With: 001 IDES 5612; Abimbola Asojo ; 3 cr.

### 3614 Interior Design Ethics and Professional Practice

#### (A-F only; Prereq: 2604 or DHA 2604; or Interior Environments Minor(CV))











16384 014 IND, 00:00-00:00 , , In Person Term Based; Christopher Lundstrom ; 1-10 cr.  
16595 043 IND, In Person Term Based; Yonghwan Chang ; 1-10 cr.  
16718 005 IND, In Person Term Based; Sarah Greising ; 1-10 cr.  
16783 015 IND, In Person Term Based; Vicki Schull ; 1-10 cr.

### 3993H Directed Study in Kinesiology: Honors

**(A-F only; Prereq: Kin honors, instr consent)**  
15765 004 IND, 00:00-00:00 , , In Person Term Based; Donald Dengel ; 1-10 cr.  
15766 019 IND, 00:00-00:00 , , In Person Term Based; Thomas Stoffregen ; 1-10 cr.  
15767 021 IND, 00:00-00:00 , , In Person Term Based; Michael Wade ; 1-10 cr.  
15890 025 IND, 00:00-00:00 , , In Person Term Based; Diane Wiese-Bjornstal ; 1-10 cr.  
16004 029 IND, 00:00-00:00 , , In Person Term Based; Beth Lewis ; 1-10 cr.  
16005 027 IND, 00:00-00:00 , , In Person Term Based; Nicole LaVoi ; 1-10 cr.  
16006 023 IND, 00:00-00:00 , , In Person Term Based; Maureen Weiss ; 1-10 cr.  
16007 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-10 cr.  
16009 003 IND, 00:00-00:00 , , In Person Term Based; George Biltz ; 1-10 cr.  
16335 049 IND, 00:00-00:00 , , In Person Term Based; Chelsey Thul ; 1-10 cr.  
16719 005 IND, In Person Term Based; Sarah Greising ; 1-10 cr.  
16723 001 IND, In Person Term Based; Daheia Barr-Anderson ; 1-10 cr.  
16724 006 IND, In Person Term Based; Li Li Ji ; 1-10 cr.  
16725 045 IND, In Person Term Based; Zan Gao ; 1-10 cr.  
16784 015 IND, In Person Term Based; Vicki Schull ; 1-10 cr.

### 4001H Honors Seminar in Kinesiology

**(A-F or Audit; Prereq: Kinesiology honors)**  
15543 001 LEC, 00:00-00:00 , , In Person Term Based; Chelsey Thul ; 3 cr.

### 4133 Perceptual-Motor Control and Learning

**(A-F or Audit; Prereq: [3112, 3132, 3135, KIN major] or instr consent)**  
15299 001 LEC, 09:45-11:00 TTh, Akerman Hall 211, In Person Term Based; Thomas Stoffregen ; 3 cr.

### 4134 The Aging Motor System

**(A-F only; Prereq: [3132, 3135, Kin major] or instr consent)**  
16601 001 LEC, 13:00-14:15 MW, Akerman Hall 215, In Person Term Based; Michael Wade ; 3 cr.

### 4136 Embodied Cognition

**(A-F only; Prereq: 3132 or 3135 or instr consent)**  
33113 001 LEC, 11:15-12:30 TTh, Akerman Hall 211, In Person Term Based; Thomas Stoffregen ; 3 cr.

### 4214 Health Promotion

**(A-F only; )**  
33211 001 LEC, 09:45-11:00 TTh, Cooke Hall 206, In Person Term Based; Eydie Kramer ; 3 cr.

### 4385 Exercise Physiology

**(A-F only; Prereq: [[3385 or PHSL 3051, or equiv], kin major] or instr consent)**  
15743 001 LEC, 13:25-14:15 MW, Nicholson Hall 275, In Person Term Based; Donald Dengel ; 4 cr.  
15744 002 LAB, 08:00-09:50 M, Mariucci Arena 141, In Person Term Based; Madeline Czeck ; 4 cr.  
15745 003 LAB, 10:00-11:50 M, Mariucci Arena 141, In Person Term Based; Madeline Czeck ; 4 cr.  
15746 004 LAB, 08:00-09:50 W, Mariucci Arena 141, In Person Term Based; Erica Roelofs ; 4 cr.  
15747 005 LAB, 10:00-11:50 W, Mariucci Arena 141, In Person Term Based; Erica Roelofs ; 4 cr.  
16245 007 LAB, 10:00-11:50 F, Mariucci Arena 141, In Person Term Based; Charles Jedlicka ; 4 cr.

### 4641 Training Theory & Analytics I for Sport Performance

**(A-F only; Prereq: [KIN 4385 or exercise physiology course], [upper level undergrad or M.Ed. or grad student])**  
15861 001 LEC, 13:00-14:15 TTh, Armory Building 202, In Person Term Based; Christopher Lundstrom ; 3 cr.

### 5001 Foundations of Human Factors/Ergonomics

**(A-F or Audit; )**  
15386 001 LEC, 14:30-17:00 W, Armory Building 202, In Person Term Based; Meets With: 001 HUMF 5001; Thomas Smith ; 3 cr.

### 5104 Physical Activities for Persons with Disabilities

**(A-F or Audit; )**  
16715 002 LEC, 13:00-14:15 TTh, Akerman Hall 211, In Person Term Based; Michael Wade ; 3 cr.

### 5111 Sports Facilities

**(A-F or Audit; Prereq: Kin or Rec grad student or MEd student)**  
34474 001 LEC, 18:00-20:30 T, Cooke Hall 214, In Person Term Based; Clinton Warren, PhD ; 3 cr.

### 5126 Social Psychology of Sport & Physical Activity

**(A-F only; Prereq: 3126W or equiv or grad student or instr consent)**  
33982 001 LEC, 09:45-11:00 TTh, Cooke Hall 214, In Person Term Based; Maureen Weiss ; 3 cr.

### 5136 Psychology of Coaching

**(Student Option; )**  
15768 001 LEC, 11:15-12:30 TTh, Akerman Hall 227, In Person Term Based; Nicole LaVoi ; 3 cr.

### 5141 Nutrition and Exercise for Health Promotion and Disease Prevention

**(A-F only; Prereq: FScN 1112 or equiv)**  
15300 001 LEC, 14:30-15:45 TTh, Akerman Hall 211, In Person Term Based; Li Li Ji ; 3 cr.

### 5142 Applied Nutrition for Sport Performance and Optimal Health

**(A-F only; )**  
16539 001 LEC, 17:30-20:00 W, Mariucci Arena 141, In Person Term Based; Jana Dengel ; 3 cr.

### 5181 Understanding Kinesiology Research

**(A-F only; Prereq: Intro statistics recommended)**  
15870 001 LEC, 10:15-11:30 F, Bruininks Hall 131A, Partially Online; Zan Gao ; 3 cr.

### 5202 Current Issues in Health

**(A-F only; )**  
16716 001 DIS, Completely Online; Zan Gao ; 2 cr.

### 5421 Sport Finance

**(A-F or Audit; Prereq: Grad student or instr consent)**  
16345 001 LEC, 17:30-20:00 Th, Cooke Hall 214, In Person Term Based; Yonghwan Chang ; 3 cr.

### 5441 Applied Sport Science Research

**(A-F only; )**  
15906 001 LEC, 11:15-12:30 MW, Akerman Hall 211, In Person Term Based; Christopher Lundstrom ; 3 cr.

### 5485 Exercise Testing and Prescription

**(A-F only; Prereq: [3385, 4385] or instr consent)**  
33083 001 LEC, 13:00-14:15 MW, Akerman Hall 211, In Person Term Based; Christopher Lundstrom ; 3 cr.

### 5505 Human-Centered Design - Principles and Applications

**(A-F only; )**  
16668 001 LEC, 09:05-11:50 W, Kolthoff Hall 134, In Person Term Based; Meets With: 001 KIN 3505; Thomas Smith ; 3 cr.

### 5511 Sport and Gender

**(A-F only; )**  
34494 001 LEC, 16:00-18:30 W, Cooke Hall 215, In Person Term Based; Vicki Schull ; 3 cr.

### 5585 Pediatric Physiology and Health: Concepts and Applications

**(A-F only; Prereq: 3385 or 4385)**  
16250 001 LEC, 16:00-17:40 Th, Akerman Hall 211, In Person Term Based; George Biltz ; 2 cr.

### 5696 Practicum in Kinesiology

**(S-N only; Prereq: [Kin MEd or grad student], instr consent)**  
15499 002 FWK, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-6 cr.  
15522 011 FWK, 00:00-00:00 , , In Person Term Based; Arthur Leon ; 1-6 cr.

15876 015 FWK, 00:00-00:00 , , In Person Term Based; Jo Ann Buysse ; 1-6 cr.  
16507 021 FWK, In Person Term Based; Michael Wade ; 1-6 cr.  
16515 027 FWK, In Person Term Based; Nicole LaVoi ; 1-6 cr.  
16740 014 FWK, In Person Term Based; Christopher Lundstrom ; 1-6 cr.  
35555 001 FWK, In Person Term Based; Vicki Schull ; 1-6 cr.

### 5723 Psychology of Sport Injury and Rehabilitation

**(A-F only; Prereq: Intro psych course)**  
15529 001 LEC, 13:00-14:15 TTh, Akerman Hall 227, In Person Term Based; Diane Wiese-Bjornstal ; 3 cr.

### 5801 Legal Aspects of Sport and Recreation

**(A-F only; )**  
15425 001 LEC, 17:45-21:00 M, Folwell Hall 12, In Person Term Based; Sandy Blazar ; 4 cr.

### 5981 Research Methodology in Kinesiology and Sport Management

**(A-F only; )**  
16346 001 LEC, 13:00-14:15 MW, Cooke Hall 215, In Person Term Based; Daheia Barr-Anderson ; 3 cr.

### 5992 Readings in Kinesiology

**(A-F only; Prereq: [KIN upper div undergrad or MEd or grad student], instr consent)**  
15367 007 IND, 00:00-00:00 , , In Person Term Based; Mary Jo Kane ; 1-9 cr.  
15368 025 IND, 00:00-00:00 , , In Person Term Based; Diane Wiese-Bjornstal ; 1-9 cr.  
15510 004 IND, 00:00-00:00 , , In Person Term Based; Donald Dengel ; 1-9 cr.  
15523 019 IND, 00:00-00:00 , , In Person Term Based; Thomas Stoffregen ; 1-9 cr.  
15534 021 IND, 00:00-00:00 , , In Person Term Based; Michael Wade ; 1-9 cr.  
15546 002 IND, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-9 cr.  
15784 027 IND, 00:00-00:00 , , In Person Term Based; Nicole LaVoi ; 1-9 cr.  
15788 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-9 cr.  
15863 029 IND, 00:00-00:00 , , In Person Term Based; Beth Lewis ; 1-9 cr.  
15875 023 IND, 00:00-00:00 , , In Person Term Based; Maureen Weiss ; 1-9 cr.  
16021 035 IND, 00:00-00:00 , , In Person Term Based; Jo Ann Buysse ; 1-9 cr.  
16023 006 IND, 00:00-00:00 , , In Person Term Based; Li Li Ji ; 1-9 cr.  
16103 045 IND, 00:00-00:00 , , In Person Term Based; Zan Gao ; 1-9 cr.  
16110 001 IND, 00:00-00:00 , , In Person Term Based; Daheia Barr-Anderson ; 1-9 cr.  
16277 003 IND, 00:00-00:00 , , In Person Term Based; George Biltz ; 1-9 cr.  
16306 047 IND, 00:00-00:00 , , In Person Term Based; Yuhei Inoue ; 1-9 cr.  
16336 049 IND, 00:00-00:00 , , In Person Term Based; Chelsey Thul ; 1-9 cr.  
16387 014 IND, 00:00-00:00 , , In Person Term Based; Christopher Lundstrom ; 1-9 cr.  
16594 043 IND, In Person Term Based; Yonghwan Chang ; 1-9 cr.  
16720 005 IND, In Person Term Based; Sarah Greising ; 1-9 cr.  
16785 015 IND, In Person Term Based; Vicki Schull ; 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)**  
15362 007 IND, 00:00-00:00 , , In Person Term Based; Mary Jo Kane ; 1-6 cr.  
15363 025 IND, 00:00-00:00 , , In Person Term Based; Diane Wiese-Bjornstal ; 1-6 cr.  
15450 016 IND, 00:00-00:00 , , In Person Term Based; Thomas Smith ; 1-6 cr.  
15511 004 IND, 00:00-00:00 , , In Person Term Based; Donald Dengel ; 1-6 cr.  
15524 019 IND, 00:00-00:00 , , In Person Term Based; Thomas Stoffregen ; 1-6 cr.  
15536 021 IND, 00:00-00:00 , , In Person Term Based; Michael Wade ; 1-6 cr.  
15547 002 IND, 00:00-00:00 , , In Person Term Based; Lisa Kihl ; 1-6 cr.  
15785 027 IND, 00:00-00:00 , , In Person Term Based; Nicole LaVoi ; 1-6 cr.

15789 008 IND, 00:00-00:00 , , In Person Term Based; Juergen Konczak ; 1-6 cr.  
 15867 035 IND, 00:00-00:00 , , In Person Term Based; Jo Ann Buysse ; 1-6 cr.  
 15920 023 IND, 00:00-00:00 , , In Person Term Based; Maureen Weiss ; 1-6 cr.  
 16002 043 IND, 00:00-00:00 , , In Person Term Based; Yonghwan Chang ; 1-6 cr.  
 16024 006 IND, 00:00-00:00 , , In Person Term Based; Li Li Ji ; 1-6 cr.  
 16104 045 IND, 00:00-00:00 , , In Person Term Based; Zan Gao ; 1-6 cr.  
 16273 001 IND, 00:00-00:00 , , In Person Term Based; Daheia Barr-Anderson ; 1-6 cr.  
 16307 047 IND, 00:00-00:00 , , In Person Term Based; Yuhei Inoue ; 1-6 cr.  
 16337 049 IND, 00:00-00:00 , , In Person Term Based; Chelsey Thul ; 1-6 cr.  
 16377 014 IND, 00:00-00:00 , , In Person Term Based; Christopher Lundstrom ; 1-6 cr.  
 16721 005 IND, In Person Term Based; Sarah Greising ; 1-6 cr.  
 16786 015 IND, In Person Term Based; Vicki Schull ; 1-6 cr.

## Korean (KOR)

### 1011 Beginning Korean I

(Student Option No Audit; )  
 17536 003 LEC, 11:15-12:05 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 003 KOR 4001; Sugyung Kim ; 5 cr.  
 17793 001 LEC, 09:05-09:55 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 001 KOR 4001; Jeong Min Seo ; 5 cr.  
 18185 002 LEC, 10:10-11:00 MTWThF, Folwell Hall 105, In Person Term Based; Meets With: 002 KOR 4001; Jeong Min Seo ; 5 cr.  
 19390 004 LEC, 11:15-12:05 MTWThF, Folwell Hall 103, In Person Term Based; Meets With: 004 KOR 4001; Hangtae Cho ; 5 cr.  
 20338 051 LEC, 17:40-20:00 TTh, Folwell Hall 18, In Person Term Based; Meets With: 051 KOR 4001; Bryce Johnson ; 5 cr.  
 20659 006 LEC, 13:25-14:15 MTWThF, Folwell Hall 120, In Person Term Based; Meets With: 006 KOR 4001; Bryce Johnson ; 5 cr.  
 20756 007 LEC, 15:30-17:50 MW, Folwell Hall 103, In Person Term Based; Meets With: 007 KOR 4001; Bryce Johnson ; 5 cr.

### 3021 Intermediate Korean I

(Student Option No Audit; Prereq: 1012)  
 17937 001 LEC, 13:25-14:15 MTWThF, Folwell Hall 118, In Person Term Based; Meets With: 001 KOR 4003; Sugyung Kim ; 5 cr.  
 19251 002 LEC, 15:35-16:25 MTWThF, Folwell Hall 123, In Person Term Based; Meets With: 002 KOR 4003; Sugyung Kim ; 5 cr.  
 19300 050 LEC, 14:30-15:20 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 050 KOR 4003; Sugyung Kim ; 5 cr.  
 21387 051 LEC, 17:30-19:50 MW, Folwell Hall 5, In Person Term Based; Meets With: 051 KOR 4003; Suyon Kim ; 5 cr.  
 34867 301 LEC, 13:25-14:15 MTWThF, ONLINE, Completely Online; Sugyung Kim ; 5 cr.

### 3031 Third Year Korean I

(Student Option No Audit; Prereq: 3022)  
 17825 001 LEC, 15:35-17:30 TTh, Folwell Hall 32, In Person Term Based; Meets With: 001 KOR 4005; Jeong Min Seo ; 4 cr.  
 34794 002 LEC, 15:35-17:30 MW, Folwell Hall 30, In Person Term Based; Meets With: 002 KOR 4005; Jeong Min Seo ; 4 cr.

### 3290 Korean Language Teaching Tutorial

(S-N only; Prereq: Grade of A in 3032)  
 18326 001 FWK, In Person Term Based; Hangtae Cho ; 1 cr.

### 4003 Intermediate Korean I for Graduate

**Student Research**  
 (Student Option No Audit; Prereq: 4002, grad student)  
 19313 050 LEC, 14:30-15:20 MTWThF, Folwell Hall 122, In Person Term Based; Meets With: 050 KOR 3021; Sugyung Kim ; 5 cr.

### 4005 Third Year Korean I for Graduate

**Student Research**  
 (Student Option No Audit; Prereq: 4004)  
 18281 001 LEC, 15:35-17:30 TTh, Folwell Hall 32, In Person Term Based; Meets With: 001 KOR 3031; Jeong Min Seo ; 4 cr.

### 4041 Advanced Readings in Modern

**Korean I**  
 (Student Option; Prereq: 3032 or equiv or instr consent)  
 20876 001 LEC, 09:05-11:00 TTh, Civil Engineering Bldg 214, In Person Term Based; Hangtae Cho ; 4 cr.

## Land and Atmospheric Science (LAAS)

### 5050 Integrated Topics in Land & Atmospheric Science

(A-F or Audit; )  
 21985 001 LEC, 11:45-13:00 MW, McNeal Hall 395, In Person Term Based; Tracy Twine, Kyungsoo Yoo ; 3 cr.

### 5416 Precision Agriculture and Nutrient Management

(Student Option; )  
 34983 002 LEC, 16:45-17:45 Th, Soils S415, In Person Term Based; Yuxin Miao ; 3 cr.

### 5425 Atmospheric Processes I: Thermodynamics and Dynamics of the Atmosphere

(A-F or Audit; Prereq: One yr college-level [calculus, physics])  
 22182 001 LEC, 15:00-16:15 MW, Green Hall 19, In Person Term Based; Peter Snyder ; 3 cr.

### 5621 Soil and Environmental Genomics

(Student Option; Prereq: basic microbiology courses (e.g., MicB 3301) recommended.)  
 22206 001 LEC, 10:40-11:55 T, Ecology Building 170, In Person Term Based; Satoshi Ishii ; 3 cr.  
 22207 002 LAB, 10:40-11:55 Th, Ecology Building 170, In Person Term Based; Satoshi Ishii ; 3 cr.

## Landscape Architecture (LA)

### 1001 Sustainability by Design

(A-F only; ENV)  
 14456 001 DIS, 16:00-17:15 TTh, Rapson Hall 45, In Person Term Based; Tony Chevalier ; 3 cr.

### 1201 Learning from the Landscape

(A-F or Audit; AH,DSJ)  
 14204 001 LEC, 11:15-12:30 MW, Blegen Hall 10, In Person Term Based; Kristine Miller ; 3 cr.

### 2301 Advanced Representation for Environmental Design

(Student Option; Prereq: 1301)  
 14277 001 LAB, 09:05-11:00 TTh, Rapson Hall 33, 09:05-11:00 TTh, Rapson Hall 9, In Person Term Based; Meets With: 001 LA 5376; Vincent deBritto ; 3 cr.

### 3001 Understanding and Creating Landscape Space

(A-F or Audit; )  
 14174 001 LEC, 18:00-19:00 MW, 1425 University Ave 175, In Person Term Based; Bradley Agee ; 4 cr.  
 14175 002 DIS, 19:10-20:00 MW, 1425 University Ave 175, In Person Term Based; Bradley Agee ; 4 cr.

### 3003 Climate Change Adaptation

(Student Option; )  
 14281 001 LAB, 16:00-17:15 TTh, Bruininks Hall 131B, In Person Term Based; Meets With: 001 LA 5003; Vincent deBritto ; 3 cr.

### 3413 Introduction to Landscape Architectural History

(A-F or Audit; GP,HIS)  
 14533 002 DIS, 00:00-00:00 , ONLINE, Completely Online; Bradley Agee ; 3 cr.  
 14535 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Bradley Agee ; 3 cr.

### 3571 Landscape Construction: Site Systems and Engineering

(A-F or Audit; Prereq: BED major or BED minor or instr consent)  
 14205 001 DIS, 09:05-11:00 MW, Cooke Hall 215, In Person Term Based; Meets With: 001 LA 5771; John Koepke, Jessica Rossi-Mastracci ; 3 cr.

### 4001 Sustainable Landscape Design and Planning Practices

(Student Option; Prereq: 1301, [2301 or ARCH 3301], 3001, 3002)  
 14278 001 LEC, 15:35-17:30 Th, 1425 University Ave 75, In Person Term Based; Andrew Montgomery ; 3 cr.  
 14283 002 LAB, 17:00-18:00 M, Rapson Hall 33, In Person Term Based; Andrew Montgomery ; 3 cr.

### 4096 Internship in Landscape Design and Planning

(S-N only; Prereq: 1301, 2301, 2302, 3001, 3002, 3003)  
 14282 001 FWK, 00:00-00:00 , , In Person Term Based; Bradley Agee ; 1 cr.  
 14696 002 FWK, In Person Term Based; Bradley Agee ; 1 cr.

### 4160H Thesis/Capstone Project

(A-F Only; )  
 14537 001 IND, 00:00-00:00 , , Independent/Directed Study; Bradley Agee ; 2 cr.

### 4755 Infrastructure, Natural Systems, and Space of Inhabited Landscapes

(A-F or Audit; Prereq: Jr or srTS)  
 14444 001 LEC, 17:45-20:15 W, Rapson Hall 43, In Person Term Based; Piero Protti ; 3 cr.

### 5003 Climate Change Adaptation

(Student Option; )  
 14458 001 LAB, 16:00-17:15 TTh, Bruininks Hall 131B, In Person Term Based; Meets With: 001 LA 3003; Vincent deBritto ; 3 cr.

### 5096 Internship for Master of Landscape Architecture Students

(Student Option; )  
 14624 001 LEC, In Person Term Based; John Koepke ; 1-3 cr.  
 35594 003 LEC, In Person Term Based; Rebecca Krinke, John Koepke ; 1-3 cr.

### 5131 Geospatial Data Analysis and Design

(A-F only; Prereq: Master of Landscape Architecture Student or instr consent)  
 14527 002 LAB, 14:30-15:45 TTh, Rapson Hall 33, In Person Term Based; Bryan Runck ; 3 cr.

### 5201 Making Landscape Spaces and Types

(A-F or Audit; Prereq: B.E.D accelerated status or LA grad or instr consent)  
 14173 001 LAB, 13:30-17:30 MWF, Rapson Hall 235, In Person Term Based; Rebecca Krinke, Anthony Siebenaler-Ransom ; 6 cr.

### 5202 Landscape Analysis Workshop

(S-N only; )  
 14189 001 LEC, In Person Term Based; 1 cr.

### 5376 Representation I

(A-F only; Prereq: Master of Landscape Architecture (MLA) or Accelerated Bachelor of Environmental Design.)  
 14506 001 LAB, 09:05-11:00 TTh, Rapson Hall 33, 09:05-11:00 TTh, Rapson Hall 9, In Person Term Based; Meets With: 001 LA 2301; Vincent deBritto ; 4 cr.

### 5405 Interdisciplinary Studies in Landscape Architecture

(A-F or Audit; Prereq: instr consent)  
 14689 001 IND, In Person Term Based; John Koepke ; 1-6 cr.  
 14690 002 IND, In Person Term Based; Rebecca Krinke ; 1-6 cr.  
 35457 003 IND, In Person Term Based; Karen Lutsky ; 1-6 cr.

### 5413 Introduction to Landscape

**Architectural History**  
 (A-F or Audit; Prereq: One course in history at 1xxx or higher)  
 14530 002 DIS, 11:15-12:30 TTh, Mechanical Engineering 221, In Person Term Based; Anthony Siebenaler-Ransom ; 3 cr.

### 5576 Ecological Restoration Project Planning and Management

(A-F only; Prereq: [MLA student, senior B.E.D.] or senior or grad with one college course in ecology/ one college course in plant science or botany or instr consent)  
 14584 001 DIS, 09:05-12:05 F, Murphy Hall 228, In Person Term Based; Daniel Shaw ; 3 cr.

**5771 Landscape Infrastructure and Systems I**

(A-F only; Prereq: Master of Landscape Architecture Student, [Accelerated Track B.E.D or instr consent])  
14534 001 LEC, 09:05-11:00 MW, Cooke Hall 215, In Person Term Based; Meets With: 001 LA 3571; John Koepke, Jessica Rossi-Mastracci ; 3 cr.

**Language Centr CLA Courseshare (LANG)****1073 Beginning Polish I**

(Student Option No Audit; )  
35619 001 LEC, 10:30-11:20 MWF, Jones Hall 127A, In Person Term Based; 2 cr.

**1111 Beginning Turkish I**

(Student Option; )  
34028 001 LEC, 11:00-11:50 MTWThF, Jones Hall 135B, In Person Term Based; 4 cr.

**1121 Beginning Vietnamese I**

(Student Option No Audit; )  
33587 001 LEC, In Person Term Based; Stephanie Treat ; 4 cr.

**1231 Beginning Modern Greek I**

(Student Option No Audit; )  
34736 001 LEC, 10:30-11:20 MWTh, Jones Hall 110D, In Person Term Based; 4 cr.

**2011 Accelerated Catalan I**

(Student Option No Audit; )  
33581 001 LEC, 10:30-11:20 MWF, Jones Hall 105A, In Person Term Based; 2 cr.

**2061 Intermediate Persian I**

(Student Option; )  
33582 001 LEC, 09:20-10:15 TWThF, ONLINE, Completely Online; 4 cr.

**2121 Intermediate Vietnamese I**

(Student Option No Audit; )  
33588 001 LEC, In Person Term Based; 4 cr.

**2231 Intermediate Modern Greek I**

(S-N or Audit; )  
35412 001 LEC, 12:10-13:30 MWTh, Jones Hall 110D, In Person Term Based; 4 cr.

**3013 Advanced Catalan: Language, Society and Culture II**

(Student Option; )  
35447 001 LEC, 11:30-12:20 MWF, Jones Hall 105A, In Person Term Based; 2 cr.

**3121 Advanced Vietnamese I**

(Student Option No Audit; )  
34030 001 LEC, 13:00-14:15 TTh, Jones Hall 135B, In Person Term Based; 3 cr.

**3504 Korean Language in Culture and Society**

(Student Option No Audit; )  
34032 001 LEC, 09:30-10:45 TTh, Jones Hall 127A, In Person Term Based; 3 cr.

**5121 Advanced Vietnamese III**

(Student Option No Audit; )  
35537 001 LEC, 13:00-14:15 TTh, No Room Required, In Person Term Based; 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.)  
34923 001 LEC, 12:35-13:50 TTh, Jones Hall 127A, In Person Term Based; 3 cr.

**1001 Beginning Latin I**

(Student Option; )  
17081 001 LEC, 09:05-09:55 MTWThF, Nicholson Hall 115, In Person Term Based; Samuel Berk-Hinckley ; 5 cr.  
17082 003 LEC, 13:25-14:15 MTWThF, Nicholson Hall 115, In Person Term Based; Fade Manley ; 5 cr.  
17781 002 LEC, 12:20-13:10 MTWThF, Nicholson Hall 115, In Person Term Based; Jeffrey Cross ; 5 cr.

**3003 Intermediate Latin Prose**

(Student Option; Prereq: Grade of at least C- or S in 1002 or 5001 or instr consent)  
18624 001 LEC, 11:15-12:05 MTWTh, Bruininks Hal 121, In Person Term Based; Meets With: 001 LAT 5003; Anthony Thomas ; 4 cr.  
18625 002 LEC, 14:30-15:20 MTWTh, Folwell Hall 118, In Person Term Based; Meets With: 002 LAT 5003; Stephen Smith ; 4 cr.

**3993 Directed Studies**

(Student Option; Prereq: instr consent and dept consent)  
17179 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
18956 002 IND, 00:00-00:00 , , In Person Term Based; S. Douglas Olson ; 1-4 cr.  
19362 003 IND, 00:00-00:00 , , In Person Term Based; Spencer Cole ; 1-4 cr.  
19363 004 IND, 00:00-00:00 , , In Person Term Based; Andrew Gallia ; 1-4 cr.  
19364 005 IND, 00:00-00:00 , , In Person Term Based; Nita Krevans ; 1-4 cr.  
19365 006 IND, 00:00-00:00 , , In Person Term Based; Christopher Nappa ; 1-4 cr.  
19366 007 IND, 00:00-00:00 , , In Person Term Based; George Sheets ; 1-4 cr.  
19367 008 IND, 00:00-00:00 , , In Person Term Based; Oliver Nicholson ; 1-4 cr.

**4951W Major Project**

(Student Option; Prereq: [Greek-Latin or Latin major], three 3xxx Latin courses, instr consent, dept consentW)  
18364 001 IND, 00:00-00:00 , , In Person Term Based; 4 cr.  
19324 002 IND, 00:00-00:00 , , In Person Term Based; 4 cr.

**5003 Intermediate Latin Prose for Graduate Student Research**

(Student Option; Prereq: [Grade of at least [C- or S] in 1002 or 5001] or instr consent)  
19784 002 LEC, 14:30-15:20 MTWTh, Folwell Hall 118, In Person Term Based; Meets With: 002 LAT 3003; Stephen Smith ; 4 cr.  
19882 001 LEC, 11:15-12:05 MTWTh, Bruininks Hal 121, In Person Term Based; Meets With: 001 LAT 3003; Anthony Thomas ; 4 cr.

**5100 Advanced Reading**

(Student Option; Prereq: [3004 or equiv], at least two yrs of college level Latin. Must contact Classical/Near Eastern Studies department for permission to register.)  
34006 001 LEC, 09:45-11:00 MW, Hubert H. Humphrey School 30, In Person Term Based; Andrew Gallia ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent, dept consent)  
17180 001 IND, 00:00-00:00 , , In Person Term Based; Stephen Smith ; 1-4 cr.  
17791 002 IND, 00:00-00:00 , , In Person Term Based; S. Douglas Olson ; 1-4 cr.  
19368 003 IND, 00:00-00:00 , , In Person Term Based; Spencer Cole ; 1-4 cr.  
19369 004 IND, 00:00-00:00 , , In Person Term Based; Andrew Gallia ; 1-4 cr.  
19370 005 IND, 00:00-00:00 , , In Person Term Based; Nita Krevans ; 1-4 cr.  
19371 006 IND, 00:00-00:00 , , In Person Term Based; Christopher Nappa ; 1-4 cr.  
19372 007 IND, 00:00-00:00 , , In Person Term Based; George Sheets ; 1-4 cr.  
19373 008 IND, 00:00-00:00 , , In Person Term Based; Oliver Nicholson ; 1-4 cr.

**5994 Directed Research**

(Student Option; Prereq: Grad student or instr consent)  
17821 001 IND, In Person Term Based; 1-12 cr.

**5996 Directed Instruction**

(Student Option; Prereq: Grad student or instr consent)  
18375 001 IND, In Person Term Based; 1-12 cr.

**3401W Early Latin America to 1825**

(A-F or Audit; GP,WI,HIS)  
34141 001 DIS, 09:45-11:25 TTh, Blegen Hall 235, In Person Term Based; Meets With: 001 HIST 3401W; Sarah Chambers ; 4 cr.

**Law School (LAW)****3000 Introduction to American Law and Legal Reasoning**

(A-F only; )  
27332 001 LEC, 09:45-11:00 TTh, Mondale Hall 25, In Person Term Based; Meets With: 001 LAW 5000; Francis Shen ; 3 cr.  
34508 002 LEC, 09:45-11:00 MW, Mondale Hall 40, 09:45-11:00 MW, Mondale Hall 30, In Person Term Based; Meets With: 002 LAW 5000; Jon Lee ; 3 cr.

**3050 Law of Business Organizations**

(A-F only; )  
33357 001 LEC, 14:30-15:45 MW, Mondale Hall 40, 14:30-15:45 MW, Mondale Hall 30, In Person Term Based; Meets With: 001 LAW 5050; Brett McDonnell ; 3 cr.

**5000 Introduction to American Law and Legal Reasoning**

(A-F only; )  
27352 001 LEC, 09:45-11:00 TTh, Mondale Hall 25, In Person Term Based; Meets With: 001 LAW 3000; Francis Shen ; 3 cr.  
34509 002 LEC, 09:45-11:00 MW, Mondale Hall 40, 09:45-11:00 MW, Mondale Hall 30, In Person Term Based; Meets With: 002 LAW 3000; Jon Lee ; 3 cr.

**5001 Introduction to the American Legal System**

(A-F only; )  
27353 001 LEC, 09:30-16:00 MTWThF, Mondale Hall N204, 11:15-15:25 F, Mondale Hall N204, In Person Term Based; Jon Lee ; 2 cr.

**5002 MSPL Legal Research and Writing**

(S-N only; )  
27419 001 LEC, 16:05-17:00 M, Mondale Hall 55, In Person Term Based; Sean Edman ; 1 cr.  
27439 002 LEC, 17:10-18:05 M, Mondale Hall 55, In Person Term Based; Daniel Iden ; 1 cr.

**5026 Intellectual Property and Technology Proseminar**

(S-N only; )  
27423 001 LEC, 16:40-17:25 W, Mondale Hall 55, In Person Term Based; Meets With: 001 LAW 6926; Christopher Turoski ; 1 cr.

**5050 Law of Business Organizations**

(A-F only; )  
33358 001 LEC, 14:30-15:45 MW, Mondale Hall 40, 14:30-15:45 MW, Mondale Hall 30, In Person Term Based; Meets With: 001 LAW 3050; Brett McDonnell ; 3 cr.

**5051 Business Associations/Corporations**

(Student Option; )  
27335 001 LEC, 13:25-15:25 MT, Mondale Hall 20, In Person Term Based; Meets With: 001 LAW 6051; Claire Hill ; 4 cr.

**5062 Energy Law**

(Student Option; )  
27391 001 LEC, 09:40-11:05 MT, Mondale Hall 15, In Person Term Based; Meets With: 001 LAW 6062; Alexandra Klass ; 3 cr.

**5078 Legislation and Regulation**

(Student Option; )  
27428 001 LEC, 10:45-12:10 ThF, Mondale Hall 50, 10:45-12:10 TW, Mondale Hall 50, In Person Term Based; Meets With: 001 LAW 6078; Maria Ponomarenko ; 3 cr.

**5100 Taxation I**

(A-F only; )  
27403 001 LEC, 10:10-11:35 MT, Mondale Hall 20, In Person Term Based; Meets With: 001 LAW 6100; Amy Monahan ; 3 cr.

**5102 Mergers and Acquisitions**

(Student Option; )  
27427 001 LEC, 08:35-10:00 MT, Mondale Hall 65, In Person Term Based; Meets With: 001 LAW 6102; Claire Hill ; 3 cr.

**5103 Data Privacy Law****Latin (LAT)****Latin American Studies (LAS)**









22821 200 IND, In Person Term Based; Paul Gutterman ; 1-4 cr.  
22890 201 IND, In Person Term Based; Paul Gutterman ; 1-4 cr.

## Master of Development Practice (MDP)

### 5001 Ways of Knowing for Sustainable Development

(A-F or Audit; Prereq: Grad MDP major or instr consent)  
23169 001 LEC, 12:15-14:15 W, Hubert H. Humphrey School 20, In Person Term Based; David Wiley ; 2 cr.

### 5100 Post-Field / Pre-Capstone Seminar (A-F only ;)

23170 001 LEC, 14:00-21:00 F, Carlson School of Mgmt 2-233, In Person Term Based; Christopher Johnstone, David Wiley ; 1 cr.

## Materials Science (MATS)

### 1001 Advances in Chemical Engineering and Materials Science

(S-N or Audit; Prereq: Credit will not be granted if credit has been received for : ChEn 1001; Recommended for [chemical engineering, materials science/engineering] majors)  
24758 001 LEC, 14:30-15:20 Th, Amundson Hall B75, In Person Term Based; Meets With: 001 CHEN 1001; David Flannigan, Christopher Ellison ; 1 cr.

### 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)  
24425 002 LEC, 11:15-12:05 MWF, Molecular Cellular Biol 3-120, In Person Term Based; Lorraine Francis ; 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)  
25522 001 LAB, 08:00-11:00 M, Amundson Hall 16, In Person Term Based; Jeffrey Schott ; 1 cr.  
25523 002 LAB, 14:30-17:30 T, Amundson Hall 16, In Person Term Based; Jeffrey Schott ; 1 cr.  
25524 003 LAB, 14:30-17:30 Th, Amundson Hall 16, In Person Term Based; Jeffrey Schott ; 1 cr.  
25525 004 LAB, 14:30-17:30 F, Amundson Hall 16, In Person Term Based; Jeffrey Schott ; 1 cr.

### 3001 Thermodynamics of Materials

(A-F or Audit; Prereq: MatS upper div)  
24431 002 DIS, 14:30-15:20 Th, Molecular Cellular Biol 2-122, In Person Term Based; Mahesh Mahanthappa ; 3 cr.  
24831 001 LEC, 11:15-12:05 MWF, Civil Engineering Bldg 212, In Person Term Based; Mahesh Mahanthappa ; 3 cr.  
26247 003 DIS, 08:00-08:50 Th, Amundson Hall 116, In Person Term Based; Mahesh Mahanthappa ; 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)  
24430 001 LEC, 14:30-15:20 MWF, Amundson Hall B75, In Person Term Based; David Poerschke ; 3 cr.  
25467 012 DIS, 10:10-11:00 T, Lind Hall 325, In Person Term Based; David Poerschke ; 3 cr.  
25468 013 DIS, 10:10-11:00 T, Akerman Hall 313, In Person Term Based; David Poerschke ; 3 cr.  
25469 015 DIS, 09:05-09:55 T, Amundson Hall 240, In Person Term Based; David Poerschke ; 3 cr.  
25470 016 DIS, 08:00-08:50 T, Amundson Hall 124, In Person Term Based; David Poerschke ; 3 cr.  
25895 017 DIS, 08:00-08:50 T, Amundson Hall 156, In Person Term Based; David Poerschke ; 3 cr.

### 3012 Metals and Alloys

(A-F or Audit; Prereq: [3011, [MatS or ChEn upper div]] or instr consent)  
24803 001 LEC, 14:30-15:20 MWF, Rapson Hall 43, In Person Term Based; Andre Mkhoyan ; 3 cr.  
26323 002 DIS, 08:00-08:50 T, Amundson Hall 240, In Person Term Based; Andre Mkhoyan ; 3 cr.  
26324 003 DIS, 09:05-09:55 W, Ford Hall 115, In Person Term Based; Andre Mkhoyan ; 3 cr.

### 3013 Electrical and Magnetic Properties of Materials

(A-F or Audit; Prereq: 3011, [CHEM 4502 or PHYS 2303], [upper div MatS or ChEn] or instr consent)  
25791 001 LEC, 13:25-14:15 MWF, Rapson Hall 45, In Person Term Based; David Flannigan ; 3 cr.  
25792 002 DIS, 15:35-16:25 Th, Amundson Hall 120, In Person Term Based; David Flannigan ; 3 cr.  
26246 003 DIS, 13:25-14:15 Th, Amundson Hall 124, In Person Term Based; 3 cr.

### 3801 Structural Characterization Lab

(A-F only; Prereq: [3011, MatS upper div] or dept consent)  
24804 001 LEC, 12:20-13:10 MWF, Rapson Hall 43, In Person Term Based; Michael Manno ; 4 cr.  
24805 002 LAB, 09:05-12:05 T, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.  
24806 003 LAB, 09:05-12:05 Th, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.  
26229 004 LAB, 14:30-17:30 T, Amundson Hall 47, In Person Term Based; 4 cr.  
26551 005 LAB, 14:30-17:30 Th, Amundson Hall 47, In Person Term Based; Michael Manno ; 4 cr.

### 4212 Ceramics

(A-F or Audit; Prereq: [3011, [3001 or CHEN 3101], [MatS or ChEn upper div]] or instr consent)  
24436 001 LEC, 10:10-11:00 MWF, Akerman Hall 319, In Person Term Based; Bharat Jalan ; 3 cr.

### 4221 Materials Performance

(A-F only; Prereq: 3012, AEM 3031, Upper div MatS)  
24437 001 LEC, 09:05-09:55 MWF, Nicholson Hall 35, In Person Term Based; Nathan Mara ; 4 cr.  
24438 002 LAB, 08:00-10:55 T, Lab TBA, In Person Term Based; Nathan Mara ; 4 cr.  
24439 003 LAB, 11:20-14:15 T, Lab TBA, In Person Term Based; Nathan Mara ; 4 cr.  
26321 004 LAB, 11:20-14:15 W, Amundson Hall 47, In Person Term Based; Nathan Mara ; 4 cr.  
26552 005 LAB, 14:30-17:25 W, Amundson Hall 47, In Person Term Based; Nathan Mara ; 4 cr.

### 4401 Senior Design Thesis I

(A-F only; Prereq: Credit will not be granted if credit has been received for : 4400; MatS senior, dept consent, GPA of at least 3.00, project approval by faculty adviser)  
24858 001 IND, 00:00-00:00 , , In Person Term Based; David Flannigan ; 2 cr.

### 4591 Independent Study in Materials Science

(Student Option No Audit; Prereq: Upper div mat sci)  
24440 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)  
24441 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)  
24442 001 IND, 00:00-00:00 , , In Person Term Based; David Flannigan ; 1-3 cr.

### 5531 Electrochemical Engineering

(Student Option; Prereq: MatS 3011 or instr consent, upper div CSE or grad)  
33016 001 LEC, 14:30-15:20 MWF, Amundson Hall 116, In Person Term Based; Meets With: 001 CHEN 5531; William Smyrl ; 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)  
24047 010 LEC, 11:15-12:05 MWF, Rapson Hall 45, In Person Term Based; Randolph Knoche ; 3 cr.  
24048 011 DIS, 10:10-11:00 Th, Kolthoff Hall 137, In Person Term Based; Randolph Knoche ; 3 cr.  
24049 012 DIS, 11:15-12:05 Th, Kolthoff Hall 137, In Person Term Based; Randolph Knoche ; 3 cr.  
25764 013 DIS, 12:20-13:10 Th, Amundson Hall 156, In Person Term Based; Randolph Knoche ; 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)  
24190 001 LEC, 18:00-20:05 MW, Vincent Hall 206, In Person Term Based; Judith Franklin ; 3 cr.  
24191 002 LEC, 18:00-20:05 TTh, Tate Hall B45, In Person Term Based; Matthew Deidrick ; 3 cr.  
24192 010 LEC, 08:30-09:20 WF, McNeal Hall 10, Partially Online; Galen Dorpalen-Barry ; 3 cr.  
24195 020 LEC, 09:05-09:55 WF, Rapson Hall 56, Partially Online; Andy Hardt ; 3 cr.  
24199 030 LEC, 12:20-13:10 WF, Bruininks Hall 412, Partially Online; Andy Hardt ; 3 cr.  
24553 040 LEC, 14:30-15:20 MW, Bruininks Hall 330, Partially Online; Maria Sanchez Muniz ; 3 cr.  
26918 301 LEC, Completely Online; Pat Kinney ; 3 cr.

### 1038 College Algebra and Probability Submodule

(A-F or Audit; Prereq: 1051 or 1151 or 1155)  
24613 001 LEC, 00:00-00:00 , , 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)  
26963 001 LEC, 15:35-17:30 TTh, Cooke Hall 215, In Person Term Based; 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)  
24511 010 LEC, 12:20-13:10 F, Bruininks Hall 330, 12:20-13:10 M, Bruininks Hall 312, Partially Online; Mike Weimerskirch ; 3 cr.  
24516 020 LEC, 13:25-14:15 F, Bruininks Hall 330, 13:25-14:15 M, Bruininks Hall 312, Partially Online; Mike Weimerskirch ; 3 cr.  
26862 030 LEC, 14:30-15:20 F, Bruininks Hall 330, 14:30-15:20 M, Bruininks Hall 312, Partially Online; Matthew Brisbin ; 3 cr.  
26919 301 LEC, Completely Online; Cora Brown ; 3 cr.

### 1142 Short Calculus

(Student Option; Prereq: Satisfactory score on placement test or grade of at least C- in [1031 or 1051]MATH)  
24050 001 LEC, 18:00-20:05 MW, Amundson Hall 120, In Person Term Based; David Brokken ; 4 cr.  
24051 002 LEC, 18:00-20:05 TTh, Lind Hall 302, In Person Term Based; David Brokken ; 4 cr.  
24052 010 LEC, 09:05-09:55 MWF, Vincent Hall 16, In Person Term Based; Elizabeth Kelley ; 4 cr.  
24053 011 DIS, 08:00-08:50 TTh, Vincent Hall 211, In Person Term Based; Bo Zhu ; 4 cr.  
24054 012 DIS, 08:00-08:50 TTh, Vincent Hall 113, In Person Term Based; Chen Shi ; 4 cr.  
24055 013 DIS, 09:05-09:55 TTh, Tate Hall B65, In Person Term Based; Bo Zhu ; 4 cr.  
24056 014 DIS, 09:05-09:55 TTh, Lind Hall 217, In Person Term Based; Chen Shi ; 4 cr.  
24057 020 LEC, 14:30-15:20 MWF, Bruininks Hall 230, In Person Term Based; Claire Frechette ; 4 cr.  
24058 021 DIS, 13:25-14:15 TTh, Lind Hall 203, In Person Term Based; Shengmei An ; 4 cr.  
24059 022 DIS, 13:25-14:15 TTh, Appleby Hall 204, In Person Term Based; Wenjie Lu ; 4 cr.  
24060 023 DIS, 13:25-14:15 TTh, Ford Hall 151, In Person Term Based; Tianyu Tao ; 4 cr.  
24061 024 DIS, 14:30-15:20 TTh, Lind Hall 203, In Person Term Based; Shengmei An ; 4 cr.  
24847 025 DIS, 14:30-15:20 TTh, Vincent Hall 6, In Person Term Based; Wenjie Lu ; 4 cr.  
25518 026 DIS, 14:30-15:20 TTh, Vincent Hall 211, In Person Term Based; Tianyu Tao ; 4 cr.  
26921 301 LEC, Completely Online; Judith Franklin ; 4 cr.

### 1151 Precalculus II

(Student Option; Prereq: Satisfactory score on placement exam or grade of at least C- in [1031 or 1051]MATH)  
24521 020 LEC, 11:15-12:05 WF, Bruininks Hall 312, Partially Online; William Frazier, Katherine Maxwell ; 3 cr.  
24526 030 LEC, 12:20-13:10 WF, Bruininks Hall 312, Partially Online; Joel Gallegos ; 3 cr.  
24788 040 LEC, 13:25-14:15 WF, Bruininks Hall 312, Partially Online; Randolph Knoche, Delia Samuel ; 3 cr.  
26857 050 LEC, 14:30-15:20 WF, Bruininks Hall 312, Partially Online; Delia Samuel ; 3 cr.  
26920 301 LEC, Completely Online; Sunita Chepuri ; 3 cr.

### 1241 Calculus and Dynamical Systems in Biology

(Student Option; Prereq: [4 yrs high school math including trig or satisfactory score on placement



25824 024 DIS, 11:15-12:05 TTh, Cooke Hall 214, In Person Term Based; Jodin Morey ; 4 cr.  
 25833 030 LEC, 14:30-15:20 MWF, Fraser Hall 101, In Person Term Based; Linhan Li ; 4 cr.  
 25834 031 DIS, 14:30-15:20 TTh, Appleby Hall 226, In Person Term Based; Nadia Ott ; 4 cr.  
 25835 032 DIS, 14:30-15:20 TTh, Cooke Hall 215, In Person Term Based; Trevor Steil ; 4 cr.  
 25836 033 DIS, 14:30-15:20 TTh, Vincent Hall 113, In Person Term Based; Jung Heon Song ; 4 cr.  
 25914 034 DIS, 15:35-16:25 TTh, Tate Hall 110, In Person Term Based; Nadia Ott ; 4 cr.  
 25916 025 DIS, 11:15-12:05 TTh, Appleby Hall 11, In Person Term Based; Mahrud Sayrafi ; 4 cr.  
 26924 301 LEC, Completely Online; Harini Chandramouli ; 4 cr.

### 2263 Multivariable Calculus

**(Student Option; Prereq: [1272 or 1372 or 1572] w/ grade of at least C-)**  
 24090 001 LEC, 18:00-20:05 MW, Vincent Hall 113, In Person Term Based; Grace Zhang ; 4 cr.  
 24091 010 LEC, 10:10-11:00 MWF, Bruininks Hall 230, In Person Term Based; Li Wang ; 4 cr.  
 24092 011 DIS, 10:10-11:00 TTh, Vincent Hall 6, In Person Term Based; Curtis Heyda ; 4 cr.  
 24093 012 DIS, 10:10-11:00 TTh, Vincent Hall 211, In Person Term Based; Mathieu De Langis ; 4 cr.  
 24094 013 DIS, 10:10-11:00 TTh, Vincent Hall 311, In Person Term Based; Lei Yuan ; 4 cr.  
 24095 014 DIS, 11:15-12:05 TTh, Tate Hall B65, In Person Term Based; Curtis Heyda ; 4 cr.  
 24096 020 LEC, 14:30-15:20 MWF, Tate Hall 105, In Person Term Based; Dennis Hejhal ; 4 cr.  
 24097 021 DIS, 13:25-14:15 TTh, Vincent Hall 20, In Person Term Based;Carolynn Johnson ; 4 cr.  
 24098 022 DIS, 13:25-14:15 TTh, Appleby Hall 302, In Person Term Based; Shengkai Mao ; 4 cr.  
 24721 002 LEC, 18:00-20:05 TTh, Ford Hall 151, In Person Term Based; Nadejda Drenska ; 4 cr.  
 25880 023 DIS, 14:30-15:20 TTh, Vincent Hall 311, In Person Term Based; Shengkai Mao ; 4 cr.  
 25970 024 DIS, 14:30-15:20 TTh, Vincent Hall 20, In Person Term Based; Meets With: 025 MATH 2263; Carolynn Johnson ; 4 cr.  
 26095 015 DIS, 11:15-12:05 TTh, Ford Hall 110, In Person Term Based; Mathieu De Langis ; 4 cr.  
 26332 025 DIS, 14:30-15:20 TTh, Vincent Hall 20, In Person Term Based; Meets With: 024 MATH 2263; Carolynn Johnson ; 4 cr.  
 26338 016 DIS, 11:15-12:05 TTh, Fraser Hall 101, In Person Term Based; Lei Yuan ; 4 cr.  
 26925 301 LEC, Completely Online; Jonathan Roth ; 4 cr.

### 2283 Sequences, Series, and Foundations

**(Student Option; Prereq: [concurrent registration is required (or allowed) in 2243 or concurrent registration is required (or allowed) in 2263 or concurrent registration is required (or allowed) in 2373 or concurrent registration is required (or allowed) in 2374] w/grade of at least C-)**  
 24716 010 LEC, 11:15-12:05 MW, Armory Building 116, In Person Term Based; Ionut Ciocan-Fontanine ; 3 cr.  
 24717 011 DIS, 10:10-11:00 TTh, Blegen Hall 230, In Person Term Based; Ryan Matzke ; 3 cr.  
 26088 012 DIS, 11:15-12:05 TTh, Blegen Hall 230, In Person Term Based; Ryan Matzke ; 3 cr.

### 2373 CSE Linear Algebra and Differential Equations

**(Student Option; Prereq: [1272 or 1282 or 1372 or 1572] w/grade of at least C-, CSE or pre-Bio Prod/Biosys Engr)**  
 24264 010 LEC, 11:15-12:05 MW, Anderson Hall 210, In Person Term Based; Greg Anderson ; 4 cr.  
 24265 011 DIS, 09:05-09:55 Th, Lind Hall 40, 08:00-08:50 TTh, Vincent Hall 207, In Person Term Based; Kuan-Yu Lin ; 4 cr.  
 24266 012 DIS, 10:10-11:00 Th, Lind Hall 40, 09:05-09:55 TTh, Lind Hall 340, In Person Term Based; Ryan Coopergard ; 4 cr.  
 24267 013 DIS, 11:15-12:05 Th, Lind Hall 40, 10:10-11:00 TTh, Lind Hall 229, In Person Term Based; Kuan-Yu Lin ; 4 cr.  
 24268 020 LEC, 13:25-14:15 MW, Vincent Hall 16, In Person Term Based; Greg Anderson ; 4 cr.  
 24269 021 DIS, 09:05-09:55 T, Lind Hall 40, 08:00-08:50 TTh, Vincent Hall 206, In Person Term Based; Terrence Stanley ; 4 cr.  
 24270 022 DIS, 10:10-11:00 T, Lind Hall 40, 09:05-09:55 TTh, Lind Hall 203, In Person Term Based; Liya Ouyang ; 4 cr.  
 24271 023 DIS, 11:15-12:05 T, Lind Hall 40, 10:10-11:00 TTh, Lind Hall 203, In Person Term Based; Terrence Stanley ; 4 cr.

24272 024 DIS, 12:20-13:10 T, Lind Hall 40, 11:15-12:05 TTh, Vincent Hall 209, In Person Term Based; Liya Ouyang ; 4 cr.  
 24720 014 DIS, 12:20-13:10 Th, Lind Hall 40, 11:15-12:05 TTh, Vincent Hall 207, In Person Term Based; Ryan Coopergard ; 4 cr.  
 24918 015 DIS, 13:25-14:15 Th, Lind Hall 40, 12:20-13:10 TTh, Vincent Hall 6, In Person Term Based; Jens Gilman ; 4 cr.  
 25505 025 DIS, 13:25-14:15 T, Lind Hall 40, 12:20-13:10 TTh, Vincent Hall 211, In Person Term Based; Timur Yastrzhemskiy ; 4 cr.  
 33597 030 LEC, 15:35-16:25 MW, Fraser Hall 101, In Person Term Based; Terrence Stanley ; 4 cr.  
 33598 031 DIS, 14:30-15:20 T, Lind Hall 40, 13:25-14:15 TTh, Lind Hall 340, In Person Term Based; Craig Corsi ; 4 cr.  
 33599 032 DIS, 15:35-16:25 T, Lind Hall 40, 14:30-15:20 TTh, Vincent Hall 207, In Person Term Based; Joe Dickinson ; 4 cr.  
 33600 033 DIS, 16:40-17:30 T, Lind Hall 40, 15:35-16:25 TTh, Lind Hall 203, In Person Term Based; Craig Corsi ; 4 cr.  
 33601 034 DIS, 17:45-18:35 T, Lind Hall 40, 16:40-17:30 TTh, Vincent Hall 206, In Person Term Based; Joe Dickinson ; 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)**  
 24731 010 LEC, 09:05-09:55 WF, Fraser Hall 101, In Person Term Based; Paul Carter ; 4 cr.  
 24732 011 DIS, 09:05-09:55 Th, Vincent Hall 2, 08:00-08:50 TTh, Vincent Hall 2, In Person Term Based; Cheng Chen ; 4 cr.  
 24733 012 DIS, 10:10-11:00 Th, Vincent Hall 20, 09:05-09:55 TTh, Vincent Hall 20, In Person Term Based; Peihang Wu ; 4 cr.  
 24734 013 DIS, 11:15-12:05 Th, Vincent Hall 2, 10:10-11:00 TTh, Vincent Hall 2, In Person Term Based; Cheng Chen ; 4 cr.  
 24735 014 DIS, 12:20-13:10 Th, Vincent Hall 20, 11:15-12:05 TTh, Vincent Hall 20, In Person Term Based; Peihang Wu ; 4 cr.  
 24736 020 LEC, 13:25-14:15 WF, Anderson Hall 270, In Person Term Based; Paul Carter ; 4 cr.  
 24737 021 DIS, 14:30-15:20 Th, Lind Hall 40, 13:25-14:15 TTh, Vincent Hall 1, In Person Term Based; Hyekyung Kim ; 4 cr.  
 24738 022 DIS, 15:35-16:25 Th, Lind Hall 40, 14:30-15:20 TTh, Vincent Hall 1, In Person Term Based; Drisana Mosaphir ; 4 cr.  
 24739 023 DIS, 16:40-17:30 Th, Lind Hall 40, 15:35-16:25 TTh, Tate Hall B85, In Person Term Based; Hyekyung Kim ; 4 cr.  
 24740 024 DIS, 17:45-18:35 Th, Lind Hall 40, 16:40-17:30 TTh, Tate Hall B45, In Person Term Based; Drisana Mosaphir ; 4 cr.  
 25460 015 DIS, 13:25-14:15 Th, Vincent Hall 2, 12:20-13:10 TTh, Vincent Hall 2, In Person Term Based; Zanning Dai ; 4 cr.

### 2573H Honors Calculus III

**(A-F only; Prereq: Math 1572H or Math 2574H, honors student and permission of University Honors Program)**  
 24276 010 LEC, 10:10-11:00 MWF, Vincent Hall 16, In Person Term Based; Weiyang Chen ; 4 cr.  
 24277 011 DIS, 09:05-09:55 TTh, Vincent Hall 1, In Person Term Based; Marshall Smith ; 4 cr.  
 24278 012 DIS, 09:05-09:55 TTh, Vincent Hall 207, In Person Term Based; Bruno Poggi Cevallos ; 4 cr.  
 25908 013 DIS, 09:05-09:55 TTh, Vincent Hall 206, In Person Term Based; David Demark ; 4 cr.  
 26084 014 DIS, 10:10-11:00 TTh, Vincent Hall 209, In Person Term Based; Marshall Smith ; 4 cr.  
 26085 015 DIS, 10:10-11:00 TTh, Vincent Hall 207, In Person Term Based; Bruno Poggi Cevallos ; 4 cr.  
 26333 016 DIS, 10:10-11:00 TTh, Vincent Hall 206, In Person Term Based; David Demark ; 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)**  
 24576 010 LEC, 11:15-12:05 MWF, Anderson Hall 270, In Person Term Based; Bryan Mosher ; 4 cr.  
 24577 012 DIS, 10:10-11:00 TTh, Vincent Hall 1, In Person Term Based; Emily Tibor ; 4 cr.  
 24718 011 DIS, 10:10-11:00 TTh, Appleby Hall 302, In Person Term Based; Cole Jeznach ; 4 cr.

25497 013 DIS, 11:15-12:05 TTh, Vincent Hall 211, In Person Term Based; Kayla Wright ; 4 cr.  
 25971 014 DIS, 11:15-12:05 TTh, Vincent Hall 6, In Person Term Based; Michelle Pinharry ; 4 cr.  
 26082 015 DIS, 11:15-12:05 TTh, Vincent Hall 311, In Person Term Based; Cecily Santiago ; 4 cr.

### 3592H Honors Mathematics I

**(A-F only; Prereq: dept consent; for students with mathematical talent)**  
 24878 010 LEC, 10:10-11:00 MWF, Smith Hall 121, In Person Term Based; Markus Keel ; 5 cr.  
 24879 011 DIS, 10:10-11:00 TTh, Blegen Hall 110, In Person Term Based; Lilly Webster ; 5 cr.

### 4065 Theory of Interest

**(A-F only; Prereq: 1272 or 1372 or 1572)**  
 24832 001 LEC, 10:10-12:05 MW, Vincent Hall 1, In Person Term Based; Breaanne Richins ; 4 cr.  
 25972 002 LEC, 12:20-14:15 MW, Vincent Hall 211, In Person Term Based; Katherine Kovarik ; 4 cr.  
 26337 003 LEC, 17:00-18:40 MW, Ford Hall B80, In Person Term Based; Thomas Schwartzbauer ; 4 cr.

### 4067W Actuarial Mathematics in Practice

**(A-F only; Prereq: 4065, ACCT 2050, ECON 1101, ECON 1102WI)**  
 26221 001 LEC, 17:00-19:30 T, Bruininks Hall 530A, In Person Term Based; Doreen Vescelius ; 3 cr.

### 4242 Applied Linear Algebra

**(Student Option; Prereq: 2243 or 2373 or 2573)**  
 24506 010 LEC, 09:05-09:55 MWF, Vincent Hall 211, In Person Term Based; Yongjia Zhang ; 4 cr.  
 24719 020 LEC, 09:05-09:55 MWF, Vincent Hall 113, In Person Term Based; Dongkwan Kim ; 4 cr.  
 25698 030 LEC, 12:20-13:10 MWF, Vincent Hall 6, In Person Term Based; Karel Priky ; 4 cr.  
 25790 040 LEC, 12:20-13:10 MWF, Vincent Hall 113, In Person Term Based; Peter Polacik ; 4 cr.  
 25973 050 LEC, 13:25-14:15 MWF, Vincent Hall 6, In Person Term Based; Dongkwan Kim ; 4 cr.  
 26083 060 LEC, 13:25-14:15 MWF, Vincent Hall 113, In Person Term Based; Jack Conn ; 4 cr.  
 26094 070 LEC, 14:30-15:20 MWF, Vincent Hall 211, In Person Term Based; William Leeb ; 4 cr.  
 26411 080 LEC, 14:30-15:20 MWF, Vincent Hall 113, In Person Term Based; Jack Conn ; 4 cr.

### 4281 Introduction to Modern Algebra

**(Student Option; Prereq: 2283 or 3283 or instr consent)**  
 26179 001 LEC, 11:15-12:05 MWF, Lind Hall 217, In Person Term Based; Anar Akhmedov ; 4 cr.  
 26335 002 LEC, 13:25-14:15 MWF, Ford Hall 150, In Person Term Based; Kathryn McCormick ; 4 cr.

### 4512 Differential Equations with Applications

**(Student Option; Prereq: 2243 or 2373 or 2573)**  
 24304 001 LEC, 10:10-11:00 MWF, Vincent Hall 6, In Person Term Based; Helena Zarin ; 3 cr.

### 4567 Applied Fourier Analysis

**(Student Option; Prereq: 2243 or 2373 or 2573)**  
 24309 001 LEC, 12:20-13:10 MWF, Vincent Hall 2, In Person Term Based; Dennis Hejhal ; 4 cr.

### 4603 Advanced Calculus I

**(Student Option; Prereq: [[2243 or 2373], [2263 or 2374]] or 2574 or instr consent)**  
 25988 001 LEC, 09:05-11:00 TTh, Appleby Hall 226, In Person Term Based; Scot Adams ; 4 cr.  
 26336 002 LEC, 11:15-13:10 TTh, Appleby Hall 204, 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)**  
 25451 001 LEC, 16:40-18:35 TTh, Vincent Hall 207, In Person Term Based; Sunita Chepuri ; 4 cr.

### 4707 Introduction to Combinatorics and Graph Theory

**(Student Option; Prereq: 2243, [2283 or 3283])**  
 24838 001 LEC, 14:30-16:25 MW, Lind Hall 325, In Person Term Based; Dennis Stanton ; 4 cr.

### 4991 Independent Study

**(Student Option; )**  
 24531 001 IND, 00:00-00:00 , Independent/Directed Study; 1-4 cr.  
 25681 002 IND, 00:00-00:00 , Independent/Directed Study; Rina Ashkenazi ; 1-4 cr.

26091 003 IND, 00:00-00:00 , , Independent/Directed Study; ; 1-4 cr.  
 26352 004 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.  
 26363 005 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**4992 Directed Reading**

(Student Option; )  
 24536 001 IND, 00:00-00:00 , , Independent/Directed Study; Liam Keenan ; 1-4 cr.  
 25796 002 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.

**4993 Directed Study**

(Student Option; )  
 24537 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.  
 25794 002 IND, 00:00-00:00 , , Independent/Directed Study; Tian-Jun Li ; 1-4 cr.  
 26020 003 IND, 00:00-00:00 , , Independent/Directed Study; Esther Banaian ; 1-4 cr.  
 26023 004 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.

**4995 Senior Project for CLA**

(A-F or Audit; Prereq: 2 sem of upper div math, dept consent)  
 24828 001 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25423 002 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25424 005 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25425 004 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25426 003 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26100 006 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26353 007 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26354 008 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26359 009 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26361 010 IND, 00:00-00:00 , , In Person Term Based; 1 cr.

**4997W Senior project (Writing Intensive)**

(A-F or Audit; Prereq: 2 sem upper div math, dept consentWI)  
 24829 001 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25427 002 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25428 003 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25429 004 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25430 005 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25431 006 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25924 007 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 25925 008 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26016 009 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26017 010 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26018 011 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26019 012 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26021 013 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26022 014 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26255 015 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26256 016 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26257 017 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26258 018 IND, 00:00-00:00 , , Independent/Directed Study; 1 cr.  
 26355 019 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26356 020 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26358 021 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26360 022 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26362 023 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26474 024 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26476 025 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 26477 026 IND, 00:00-00:00 , , In Person Term Based; 1 cr.  
 27157 027 IND, In Person Term Based; 1 cr.  
 27159 028 IND, In Person Term Based; 1 cr.  
 27160 029 IND, In Person Term Based; 1 cr.

**5067 Actuarial Mathematics I**

(Student Option; Prereq: 4065, [one sem [4xxx or 5xxx] [probability or statistics] course])  
 24206 001 LEC, 12:20-14:15 MW, Ford Hall 151, In Person Term Based; Breanne Richins ; 4 cr.  
 25991 002 LEC, 12:20-14:15 MW, Tate Hall 120, In Person Term Based; Aileen Lyle ; 4 cr.

**5075 Mathematics of Options, Futures, and Derivative Securities I**

(Student Option; Prereq: Two yrs calculus, basic computer skills)  
 24578 001 LEC, 10:10-12:05 MW, Vincent Hall 211, In Person Term Based; Katherine Kovarik ; 4 cr.

**5165 Mathematical Logic I**

(Student Option; Prereq: 2283 or 3283 or Phil 5201 or CSci course in theory of algorithms or instr consent)  
 24220 001 LEC, 14:30-15:20 MWF, Vincent Hall 6, In Person Term Based; Karel Prikry ; 4 cr.

**5248 Cryptology and Number Theory**

(Student Option; Prereq: 2 sems soph math)  
 24306 001 LEC, 16:00-17:15 MW, Vincent Hall 113, In Person Term Based; Patricia Klein ; 4 cr.  
 25330 002 LEC, 14:30-15:45 MW, Ford Hall 151, In Person Term Based; Patricia Klein ; 4 cr.  
 26334 003 LEC, 14:30-15:45 TTh, Ford Hall B15, In Person Term Based; Nicholas Ovenhouse ; 4 cr.

**5251 Error-Correcting Codes, Finite Fields, Algebraic Curves**

(Student Option; Prereq: 2 sems soph math)  
 25449 001 LEC, 13:25-14:15 MWF, Appleby Hall 102, In Person Term Based; Daniel Johnstone ; 4 cr.

**5285H Honors: Fundamental Structures of Algebra I**

(Student Option; Prereq: [2243 or 2373 or 2573], [2283 or 2574 or 3283])  
 24290 001 LEC, 10:10-11:00 MWF, Vincent Hall 113, In Person Term Based; Gregg Musiker ; 4 cr.

**5335 Geometry I**

(Student Option; Prereq: [2243 or 2373 or 2573], [concurrent registration is required (or allowed) in 2263 or concurrent registration is required (or allowed) in 2374 or concurrent registration is required (or allowed) in 2574])  
 24291 001 LEC, 12:20-14:15 MW, Lind Hall 340, In Person Term Based; Jonathan Rogness ; 4 cr.

**5345H Honors: Introduction to Topology**

(A-F only; Prereq: [2263 or 2374 or 2573], [concurrent registration is required (or allowed) in 2283 or concurrent registration is required (or allowed) in 2574 or concurrent registration is required (or allowed) in 3283])  
 24307 001 LEC, 11:15-12:05 MWF, Vincent Hall 6, In Person Term Based; Craig Westerland ; 4 cr.

**5447 Theoretical Neuroscience**

(Student Option; Prereq: 2243 or 2373 or 2574)  
 34007 001 LEC, 13:00-14:15 WF, Bruininks Hall 144, In Person Term Based; Duane Nykamp ; 4 cr.

**5485 Introduction to Numerical Methods I**

(Student Option; Prereq: [2243 or 2373 or 2573], familiarity with some programming language)  
 24308 001 LEC, 13:25-14:15 MWF, Vincent Hall 20, In Person Term Based; Vera Andreeva ; 4 cr.  
 27093 002 LEC, 14:30-15:20 MWF, Elliott Hall N647, In Person Term Based; Dongmian Zou ; 4 cr.

**5535 Dynamical Systems and Chaos**

(Student Option; Prereq: [2243 or 2373 or 2573], [2263 or 2374 or 2574])  
 24305 001 LEC, 12:20-14:15 MW, Amundson Hall 162, In Person Term Based; Richard Moeckel ; 4 cr.

**5587 Elementary Partial Differential Equations I**

(Student Option; Prereq: [2243 or 2373 or 2573], [2263 or 2374 or 2574])  
 24591 001 LEC, 14:30-15:45 TTh, Vincent Hall 206, In Person Term Based; Nadejda Drenska ; 4 cr.  
 24841 002 LEC, 16:45-18:00 TTh, Amundson Hall 156, In Person Term Based; Svitlana Mayboroda ; 4 cr.

**5615H Honors: Introduction to Analysis I**

(Student Option; Prereq: [[2243 or 2373], [2263 or 2374], [2283 or 3283]] or 2574)

24302 001 LEC, 12:20-13:10 MWF, Vincent Hall 311, In Person Term Based; Arnd Scheel ; 4 cr.  
 24303 002 LEC, 14:30-15:20 MWF, Vincent Hall 2, In Person Term Based; Ionut Ciocan-Fontanine ; 4 cr.  
 27143 003 LEC, 12:20-13:10 MWF, Vincent Hall 207, In Person Term Based; Jiaping Wang ; 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.)  
 24310 001 LEC, 10:10-12:05 TTh, Vincent Hall 113, In Person Term Based; Mikhail Safonov ; 4 cr.  
 24715 002 LEC, 12:20-14:15 TTh, Tate Hall B65, In Person Term Based; Wei-Kuo Chen ; 4 cr.  
 26071 003 LEC, 14:30-16:25 TTh, Mechanical Engineering 221, In Person Term Based; Rina Ashkenazi ; 4 cr.  
 26093 004 LEC, 16:40-18:35 TTh, Lind Hall 217, In Person Term Based; Mikhail Safonov ; 4 cr.

**5652 Introduction to Stochastic Processes**

(Student Option; Prereq: 5651 or Stat 5101)  
 24849 001 LEC, 10:10-12:05 TTh, Burton Hall 120, In Person Term Based; Wai-Kit Lam ; 4 cr.  
 26230 002 LEC, 16:40-18:35 TTh, Lind Hall 203, In Person Term Based; Wai-Kit Lam ; 4 cr.

**5705 Enumerative Combinatorics**

(Student Option; Prereq: [2243 or 2373 or 2573], [2263 or 2283 or 2374 or 2574 or 3283])  
 26522 001 LEC, 14:30-16:25 MW, Vincent Hall 311, In Person Term Based; Christopher Fraser ; 4 cr.

**5711 Linear Programming and Combinatorial Optimization**

(Student Option; Prereq: 2 sems soph math [including 2243 or 2373 or 2573])  
 25529 001 LEC, 11:15-13:10 MW, Keller Hall 3-115, In Person Term Based; Meets With: 001 IE 5531; Yiling Zhang ; 4 cr.

**5900 Tutorial in Advanced Mathematics**

(A-F or Audit; )  
 26412 001 IND, In Person Term Based; 1-6 cr.

**Mathematics Education (MTHE)****3101 Mathematics and Pedagogy for Elementary Teachers I**

(A-F only; Prereq: [College algebra, elementary FOE or Early Childhood student, jr status or above] or instr consent)  
 15769 001 LEC, 10:30-11:45 MW, Lrng & Environmental Sci 139B, In Person Term Based; Foster Graif ; 3 cr.  
 15914 002 LEC, 13:30-14:45 MW, Lrng & Environmental Sci 139B, In Person Term Based; Megan Parise ; 3 cr.

**3102 Mathematics and Pedagogy for Elementary Teachers II**

(A-F only; Prereq: 3101, college algebra)  
 15821 001 LEC, 08:45-10:00 MW, Lrng & Environmental Sci 139B, In Person Term Based; Fawnda Norman ; 3 cr.  
 16654 002 LEC, 12:00-13:15 MW, Lrng & Environmental Sci 139B, In Person Term Based; Fawnda Norman ; 3 cr.

**5021 Algebraic Structures in School Mathematics**

(Student Option; Prereq: Tchg exper or instr consent)  
 33411 001 LEC, 07:00-08:00 MTWThF, Folwell Hall 107, In Person Term Based; Erin Baldinger ; 3 cr.

**5115 Applications of Teaching Mathematics**

(A-F only; Prereq: You must be enrolled in the Mathematics initial licensure program to take this course.)  
 16690 001 FWK, In Person Term Based; Megan Parise ; 3 cr.

**5314 Teaching and Learning Mathematics**

(Student Option; Prereq: Math Ed or MEd or CI Med or grad student or instr consent)  
 16142 001 LEC, 16:40-19:20 M, Lrng & Environmental Sci 139A, In Person Term Based; Erin Baldinger ; 3 cr.

**5355 Mathematics for Diverse Learners**

(Student Option; Prereq: Teaching license or student in elem ed or special ed or instr consent)  
 34483 001 LEC, 16:40-19:20 M, Lrng & Environmental Sci R260, In Person Term Based; Terrence Wyberg ; 3 cr.



33294 002 LAB, 13:25-16:25 W, Mechanical Engineering 465, In Person Term Based; David Kittelson ; 4 cr.  
 33296 004 LAB, 13:25-16:25 F, Mechanical Engineering 465, In Person Term Based; David Kittelson ; 4 cr.  
 33496 005 LAB, 13:25-16:25 M, Mechanical Engineering 465, In Person Term Based; David Kittelson ; 4 cr.  
 33498 006 LAB, 09:05-12:05 T, Mechanical Engineering 465, In Person Term Based; David Kittelson ; 4 cr.

### 5113 Aerosol/Particle Engineering

(A-F or Audit; Prereq: CSE upper div or grad student)  
 33313 001 LEC, 08:00-09:55 MW, Mechanical Engineering 212, In Person Term Based; Chris Hogan ; 4 cr.  
 34313 883 LEC, 08:00-09:55 MW, ONLINE, Completely Online; Chris Hogan ; 4 cr.

### 5223 Materials in Design

(Student Option; Prereq: 3221, ME upper division or grad student)  
 26531 001 LEC, 12:20-14:15 MW, Keller Hall 3-230, In Person Term Based; Tianhong Cui ; 4 cr.

### 5228 Introduction to Finite Element Modeling, Analysis, and Design

(A-F or Audit; Prereq: CSE upper div or grad, 3221, AEM 3031, CSci 1113, MatS 2001)  
 24426 001 LEC, 15:35-17:30 MW, Tate Hall 105, In Person Term Based; Kumar Tamma ; 4 cr.

### 5281 Feedback Control Systems

(Student Option; Prereq: 3281)  
 25450 001 LEC, 12:20-14:15 TTh, Keller Hall 3-230, In Person Term Based; Timothy Kowalewski ; 4 cr.  
 26460 883 LEC, 12:20-14:15 TTh, ONLINE, Completely Online; Timothy Kowalewski ; 4 cr.

### 5332 Intermediate Fluid Mechanics

(Student Option; Prereq: 3332 or equiv, CSE upper division or graduate student.)  
 26647 001 LEC, 08:15-09:30 TTh, Mechanical Engineering 221, In Person Term Based; Sungyon Lee ; 3 cr.

### 5344 Thermodynamics of Fluid Flow With Applications

(A-F or Audit; Prereq: 3333, CSE upper div or grad student)  
 33323 001 LEC, 10:10-12:05 MW, Mechanical Engineering 212, In Person Term Based; Cari Dutcher ; 4 cr.  
 33493 883 LEC, 10:10-12:05 MW, ONLINE, Completely Online; Cari Dutcher ; 4 cr.

### 5462 Gas Turbines

(A-F or Audit; Prereq: 3331, 3332, 3333, CSE upper div or grad student)  
 27082 001 LEC, 12:20-14:15 TTh, Molecular Cellular Biol 2-122, In Person Term Based; Terrence Simon ; 4 cr.

### 5666 Modern Thermodynamics

(A-F only; Prereq: 3331 or equiv)  
 33325 001 LEC, 14:30-16:25 MW, Mechanical Engineering 108, In Person Term Based; Allison Hubel ; 4 cr.

## Medical Device Innovation (MDI)

### 5001 Technical Writing Essentials

(A-F only; Prereq: grad MDI major)  
 26772 001 DIS, 17:30-21:30 W, McNamara Alumni Center 235, 17:30-21:30 M, McNamara Alumni Center 235, 17:30-21:30 M, McNamara Alumni Center 235, 17:30-21:30 W, McNamara Alumni Center 235, In Person Term Based; Daniel Mooradian ; 0-1 cr.

### 5012 Medical Industry Macro Environment

(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.)  
 35128 001 LEC, 17:30-21:30 MW, McNamara Alumni Center 235, 17:30-21:30 M, McNamara Alumni Center 235, 17:30-21:30 MW, McNamara Alumni Center 235, 17:30-21:30 MW, McNamara Alumni Center 235, 17:30-21:30 MW, McNamara Alumni Center 235, 17:30-21:30 M, McNamara Alumni Center 235, In Person Term Based; Daniel Mooradian ; 3 cr.

### 5013 Medical Device Center Practicum I

(A-F only; Prereq: Grad MDI student)  
 26596 001 LEC, In Person Term Based; Joseph Hale ; 2 cr.

### 5051 Leading Innovation & Change

(A-F only; Prereq: Grad MDI Student and completion of MDI 5050.)

26595 001 LEC, 17:30-21:30 W, McNamara Alumni Center 235, 17:30-21:30 M, McNamara Alumni Center 235, 17:30-21:30 W, McNamara Alumni Center 235, 17:30-21:30 W, McNamara Alumni Center 235, In Person Term Based; Kirk Froggatt ; 1 cr.

## Medical Industry Leadership Inst (MLI)

### 3585 Navigating the Healthcare Marketplace with Economic, Social and Policy Lenses

(A-F only; SOCS)  
 31434 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey School 35, In Person Term Based; Pinar Karaca Mandic ; 3 cr.

### 5995 Medical Industry Valuation Laboratory

(A-F only; Prereq: instr consent)  
 22605 001 LEC, 17:45-19:30 Th, Carlson School of Mgmt L-127, In Person Term Based; Meets With: 060 MLI 6995001 MLI 6996; Michael Finch, Matthew Stoll ; 2 cr.

### 5999 Independent Study

(A-F only; )  
 22606 001 IND, 00:00-00:00 , , In Person Term Based; 1-8 cr.

## Medical Laboratory Sciences Pr (MLSP)

### 1010 Introduction to Medical Laboratory Science

(S-N only; )  
 14077 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Charlotte Romain ; 1 cr.

### 5012 Foundations in Interprofessional Communication and Collaboration

(A-F only; Prereq: Admission into MLS Program)  
 14104 001 LEC, 13:30-15:30 F, AHC ROOM TBA, 13:30-15:30 F, AHC ROOM TBA, 13:30-15:30 F, AHC ROOM TBA, 13:30-15:30 F, AHC ROOM TBA, 13:30-15:30 F, AHC ROOM TBA, In Person Term Based; Janice Conway-Klaassen ; 1 cr.

### 5013 Scholarly Inquiry and Analysis in Medical Laboratory Sciences

(A-F only; )  
 14069 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Charlotte Romain, Nicole Zahnle ; 1 cr.

### 5013H Scholarly Inquiry and Analysis in Medical Laboratory Sciences - Honors

(A-F only; )  
 35536 001 LEC, Completely Online; Nicole Zahnle, Stephen Wiesner ; 2 cr.

### 5014W Laboratory Operations and Management in Health Care Systems

(A-F only; Prereq: Admission into MLS program or instr consentWI)  
 14089 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Donna Spannaus-Martin, Andrew Yue ; 2 cr.

### 5111 Concepts of Diagnostic Microbiology

(A-F only; Prereq: [MICB 3301 or equivalent], [BIOC 3021 Biochemistry or equivalent] or instr consent)  
 14070 001 LEC, 09:05-11:00 M, Moos Health Sci Tower 3-110, Partially Online; Meets With: 001 MLSP 6111; Lorna Ruskin ; 3 cr.

### 5112 Application of Diagnostic Microbiology Principles

(A-F only; )  
 14071 001 LAB, 09:00-12:00 TTh, Molecular Cellular Biol 3-150, In Person Term Based; Lorna Ruskin, Hannah Gartzke ; 2 cr.  
 14105 002 LAB, 13:00-16:00 TTh, Molecular Cellular Biol 3-150, In Person Term Based; Lorna Ruskin, Hannah Gartzke ; 2 cr.  
 14138 003 LAB, 13:00-16:00 TTh, Molecular Cellular Biol 3-150, In Person Term Based; Lorna Ruskin, Hannah Gartzke ; 2 cr.

### 5113 Advanced Concepts in Diagnostic Microbiology

(A-F only; Prereq: 5111 or instr consent)  
 34715 001 LEC, Partially Online; Lorna Ruskin ; 3 cr.

### 5211 Fundamentals in Hematology and Hemostasis

(A-F only; Prereq: PHSL 3051 or instr consent)  
 14072 001 LEC, 11:15-13:10 M, Mayo Bldg & Additions 3-125, Partially Online; Meets With: 001 MLSP 6211; Stephen Wiesner ; 3 cr.

### 5212 Application of Hematology & Hemostasis Principles

(A-F only; Prereq: concurrent registration is required (or allowed) in 5211)  
 14073 001 LAB, 08:30-11:30 W, Molecular Cellular Biol 3-150, In Person Term Based; Stephen Wiesner ; 1 cr.  
 14106 003 LAB, 12:30-15:30 W, Molecular Cellular Biol 3-150, In Person Term Based; Stephen Wiesner ; 1 cr.  
 14139 002 LAB, 12:30-15:30 W, Molecular Cellular Biol 3-150, In Person Term Based; Stephen Wiesner ; 1 cr.

### 5313 Chemical Analysis in Health and Disease

(A-F only; Prereq: 8 credits General Chemistry, 6 credits Organic Chemistry, 3 credits Biochemistry)  
 14121 001 LEC, 14:00-16:00 M, Moos Health Sci Tower 5-125, In Person Term Based; Meets With: 001 MLSP 6313; Donna Spannaus-Martin ; 3 cr.

### 5511 Principles of Immunobiology

(A-F only; Prereq: PHSL 3051 or instr consent)  
 14074 001 LEC, 13:25-14:50 TTh, Jackson Hall 2-137, In Person Term Based; Michelle Henry-Stanley ; 3 cr.

### 5701 Clinical Experience in Microbiology

(S-N only; Prereq: Advanced standing in MLS program)  
 14090 001 ROT, In Person Term Based; Tami Alpaugh, Lorna Ruskin ; 2 cr.

### 5702 Clinical Experience in Hematology and Hemostasis

(S-N only; Prereq: Advanced standing in MLS program)  
 14092 001 ROT, In Person Term Based; Tami Alpaugh, Stephen Wiesner ; 2 cr.

### 5703 Clinical Experience in Clinical Chemistry and Urinalysis

(S-N only; Prereq: Advanced standing in MLS program)  
 14091 001 ROT, In Person Term Based; Tami Alpaugh, Donna Spannaus-Martin ; 2 cr.

### 5704 Clinical Experience in Transfusion Medicine

(S-N only; Prereq: Advanced standing in MLS program)  
 14093 001 ROT, In Person Term Based; Tami Alpaugh, Andrew Yue, Michelle Henry-Stanley ; 2 cr.

### 5801 Advanced Practicum Experience in Specialty Disciplines

(S-N only; Prereq: Advanced standing in MLS program)  
 14100 001 LEC, In Person Term Based; Tami Alpaugh ; 1 cr.

## Medical Physics (MPHY)

### 5138 Research Seminar

(S-N or Audit; )  
 28074 001 LEC, 12:00-13:00 F, Room TBA, In Person Term Based; Parham Alaei ; 1-5 cr.

### 5160 Advanced Radiation Physics and Dosimetry

(A-F only; )  
 28633 001 LEC, 13:00-14:15 MW, Room TBA, In Person Term Based; Eric Ehler ; 3 cr.

### 5170 Basic Radiological Physics

(Student Option; Prereq: instr consent)  
 28075 001 LEC, 16:00-17:15 TTh, Room TBA, In Person Term Based; Yoichi Watanabe ; 3 cr.

### 5171 Medical and Health Physics of Imaging I

(Student Option; Prereq: 5170 or instr consent)  
 28459 001 LEC, 15:00-16:15 MW, Room TBA, In Person Term Based; Ngoneh Jallow ; 3 cr.



**5172 Radiation Biology**

(Student Option; Prereq: 5170 or instr consent)  
28634 001 LEC, 07:30-08:45 Th, Room TBA, 16:30-17:45 M,  
Room TBA, In Person Term Based; Jianling Yuan, Jianing  
Yuan ; 3 cr.

**Medieval Studies (MEST)****1081W Martyrs, Monks, Crusaders: World Christianity, 100-1400**

(Student Option; GP,WI,HIS)  
34295 001 LEC, 11:15-12:05 MWF, West Bank Skyway 20,  
11:15-12:05 F, Blegen Hall 225, 11:15-12:05 F, Blegen  
Hall 215, 11:15-12:05 F, Blegen Hall 220, 11:15-12:05 F,  
Blegen Hall 205, In Person Term Based; Meets With: 001  
HIST 3081W001 HIST 1081W001 RELS 3544W001 RELS  
1544W001 MEST 3081W; Andrea Sterk ; 3 cr.

**3009 Medieval Art**

(Student Option; AH)  
20615 001 LEC, 13:00-14:15 MW, Blegen Hall 145, In  
Person Term Based; Meets With: 001 ARTH 3009001  
RELS 3609; Jennifer Awes-Freeman ; 3 cr.

**3081W Martyrs, Monks, Crusaders: World Christianity, 100-1400**

(Student Option; GP,WI,HIS)  
34294 001 LEC, 11:15-12:05 MWF, West Bank Skyway 20,  
11:15-12:05 F, Blegen Hall 225, 11:15-12:05 F, Blegen  
Hall 215, 11:15-12:05 F, Blegen Hall 220, 11:15-12:05 F,  
Blegen Hall 205, In Person Term Based; Meets With: 001  
HIST 3081W001 HIST 1081W001 RELS 3544W001 RELS  
1544W001 MEST 1081W; Andrea Sterk ; 3 cr.

**3613 History of the Crusades**

(Student Option; GP,HIS)  
19966 001 LEC, 09:45-11:00 TTh, Blegen Hall 140, In  
Person Term Based; Meets With: 001 HIST 3613001 RELS  
3715; Kathryn Reyerson ; 3 cr.

**3993 Directed Studies in Medieval Studies**

(Student Option; Prereq: Previous work in a medieval  
studies discipline, instr consent)  
18214 001 IND, Independent/Directed Study; 1-3 cr.

**4612 Old English I**

(Student Option; )  
33675 001 LEC, 10:10-11:00 MWF, Akerman Hall 227, In  
Person Term Based; Meets With: 001 ENGL 4612; Andrew  
Scheil ; 3 cr.

**5993 Directed Studies in Medieval Studies**

(Student Option; Prereq: One yr work in some area  
of Middle Ages, reading knowledge of appropriate  
language, instr consent)  
16927 001 IND, In Person Term Based; 1-3 cr.

**Microbiol/Immun/Cancer Biology (MICA)****5000 Practicum: Teaching**

(No Grade Associated; )  
27773 001 FWK, 00:00-00:00 , , In Person Term Based; 0 cr.

**Microbiology (MICB)****3301 Biology of Microorganisms**

(A-F or Audit; Prereq: BIOL 3020 or BIOC 3021 or GCD  
3022 or instructor consent (biochemistry/molecular  
biology background coursework))  
27486 001 LEC, 11:15-12:30 TTh, Fraser Hall 102, In Person  
Term Based; Meets With: 001 MICB 3303; Christian Mohr ;  
5 cr.  
27487 002 LAB, 09:05-11:00 TTh, Moos Health Sci Tower  
2-242, In Person Term Based; Christian Mohr ; 5 cr.  
27488 003 LAB, 12:20-14:15 WF, Moos Health Sci Tower  
2-242, In Person Term Based; Christian Mohr ; 5 cr.

**3303 Biology of Microorganisms**

(A-F only; Prereq: BIOL 3020 or Biochemistry (BioC  
3021) or instructor consent)  
14896 001 LEC, 11:15-12:30 TTh, Fraser Hall 102, In Person  
Term Based; Meets With: 001 MICB 3301; Christian Mohr ;  
3 cr.

**4131 Immunology**

(Student Option; Prereqs: microbiology, biochemistry,  
cell biology)

14844 001 LEC, 14:30-15:20 MWF, Molecular Cellular  
Biol 3-120, In Person Term Based; Vaiva Vezys, Ryan  
Langlois ; 3 cr.

**4161W Eukaryotic Microbiology**

(A-F only; Prereq: 3301, [GCD 3022 or Biol 4003]WI)  
14850 001 LEC, 13:25-14:15 MWF, Bruininks Hall 131A, In  
Person Term Based; Dana Davis ; 3 cr.

**4215 Advanced Laboratory: Microbial**

**Physiology and Diversity**  
(A-F or Audit; Prereq: 3301 or Biol 2032 or VBS 2032 or  
intro microbiology course with lab)  
14845 001 LAB, 12:20-15:20 TTh, Moos Health Sci Tower  
2-262, In Person Term Based; Sandra Armstrong ; 3 cr.

**4225W Advanced Laboratory: Microbial**

**Genetics**  
(A-F only; Prereq: 3301, BIOL 4003WI)  
14873 001 LAB, 09:00-12:00 WF, Moos Health Sci Tower  
2-242, In Person Term Based; Kirsten Nielsen, Ryan  
Hunter ; 3 cr.

**4793W Directed Studies: Writing Intensive**

(S-N or Audit; Prereq: instr consent, dept consent; no  
more than 7 cr of [4793, 4794, 4993, 4994] may count  
toward major requirementsWI)  
14846 001 IND, 00:00-00:00 , , In Person Term Based; Leslie  
Schiff ; 1-7 cr.

**4794W Directed Research: Writing**

**Intensive**  
(S-N or Audit; Prereq: instr consent, dept consent; no  
more than 7 cr of [4793, 4794, 4993, 4994] may count  
toward major requirementsWI)  
14847 001 IND, 00:00-00:00 , , In Person Term Based; Leslie  
Schiff ; 1-7 cr.

**4993 Directed Studies**

(S-N only; Prereq: 3301, dept consent)  
14848 001 IND, 00:00-00:00 , , In Person Term Based; Leslie  
Schiff ; 1-6 cr.

**4994 Directed Research**

(S-N or Audit; Prereq: 3301, instr consent)  
14849 001 IND, 00:00-00:00 , , In Person Term Based; Leslie  
Schiff ; 1-7 cr.

**Military Science (MIL)****1003 Military Science I Leadership Lab**

(A-F only; Prereq: concurrent registration is required  
(or allowed) in 1201)  
30017 001 LEC, 16:40-18:35 W, Armory Building 100, In  
Person Term Based; Meets With: 001 MIL 103001 MIL  
203001 MIL 1203; John Wilson, Matthew Cordell, Brook  
Vance ; 1 cr.

**1101 Introduction to the Army and Critical**

**Thinking**  
(A-F only; )  
30024 001 LEC, 09:05-09:55 W, Armory Building 116A, In  
Person Term Based; Brook Vance ; 1 cr.  
30025 002 LEC, 13:25-14:15 W, Armory Building 116A, In  
Person Term Based; Brook Vance ; 1 cr.

**1201 Leadership and Decision Making**

(A-F only; Prereq: concurrent registration is required  
(or allowed) in lab)  
30026 001 LEC, 08:00-08:50 MW, Armory Building 202, In  
Person Term Based; John Wilson, Matthew Cordell ; 2 cr.  
30027 002 LEC, 13:25-14:15 MW, Armory Building 116, In  
Person Term Based; John Wilson, Matthew Cordell ; 2 cr.

**1203 MS II One Credit Lead Lab**

(A-F only; Prereq: concurrent registration is required  
(or allowed) in 1201)  
30038 001 LAB, 16:40-18:35 W, Armory Building 100, In  
Person Term Based; Meets With: 001 MIL 1003001 MIL  
103001 MIL 203; John Wilson, Matthew Cordell, Brook  
Vance ; 1 cr.

**3301 Training Management and**

**Warfighting Functions**  
(A-F only; Prereq: Two yrs of ROTC or equiv  
established by U.S. Army, must see Army ROTC  
dept officials, concurrent registration is required (or  
allowed) in lab)

30028 001 LEC, 08:00-08:50 MWF, Armory Building 116, In  
Person Term Based; Jason Benjamin, Andrew Addis ; 3 cr.

**3303 MS III One Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses,  
concurrent registration is required (or allowed) in 3301)  
30040 001 LAB, 16:40-18:35 W, Armory Building 100, In  
Person Term Based; Meets With: 001 MIL 303; Jason  
Benjamin, Andrew Addis ; 1 cr.

**3401 The Army Officer**

(A-F only; Prereq: Completed all other military courses  
or Army equiv, concurrent registration is required (or  
allowed) in lab)  
30029 001 LEC, 08:00-08:50 MWF, Armory Building 116A, In  
Person Term Based; Collin Keenan ; 3 cr.

**3403 MS IV One Credit Lead Lab**

(A-F only; Prereq: Completion of basic courses,  
concurrent registration is required (or allowed) in 3401)  
30039 001 LAB, 16:40-18:35 W, Armory Building 116, In  
Person Term Based; Meets With: 001 MIL 403; Collin  
Keenan ; 1 cr.

**3970 Military History**

(A-F only; )  
34009 003 LEC, 16:00-18:30 M, Armory Building 202, In  
Person Term Based; Nicholas Fox ; 3 cr.

**Mortuary Science (MORT)****2171 Introductory Anatomy**

(A-F only; )  
34921 001 LEC, 09:00-11:30 F, Jackson Hall 2-125, In  
Person Term Based; Michael Mathews ; 3 cr.

**3014 Funeral Service Rules and Regulations**

(A-F only; Prereq: Mortuary science major)  
27829 001 LEC, 09:00-10:40 Th, Jackson Hall 2-125, In  
Person Term Based; Michael Mathews ; 2 cr.

**3016 Funeral Service Marketing and Merchandising**

(A-F or Audit; Prereq: Mortuary science major)  
28016 001 LEC, 13:00-15:30 Th, Jackson Hall 2-125, In  
Person Term Based; Angela Woosley ; 3 cr.

**3018 Funeral Service Practice I**

(A-F only; Prereq: Mortuary science major)  
27860 001 LEC, 09:00-11:30 T, Jackson Hall 2-125, In  
Person Term Based; Michael Mathews ; 3 cr.

**3021W Funeral Service Psychology and Arrangements Theory**

(A-F only; Prereq: Students enrolled in the Program of  
Mortuary Science who have successfully completed an  
introductory course in general psychology approved  
by the program.WI)  
27804 001 LEC, 13:00-15:30 T, Jackson Hall 2-125, In  
Person Term Based; Angela Woosley ; 3 cr.

**3025 Business Law**

(A-F only; )  
27649 001 LEC, 16:30-19:00 M, Jackson Hall 2-125, In  
Person Term Based; Doug Meslow ; 3 cr.

**3048 Microbiology and Pathology for Funeral Service**

(A-F only; )  
28069 001 LEC, 10:00-11:40 MW, Jackson Hall 2-125, In  
Person Term Based; Michael Mathews ; 4 cr.

**3051 Restorative Art**

(A-F only; Prereq: MORT 3171, concurrent registration  
is required (or allowed) in 3151,3061,3161, mortuary  
science major)  
27650 001 LEC, 12:30-14:10 T, Jackson Hall 2-121, In  
Person Term Based; Giselle Wynia ; 2 cr.

**3061 Embalming Theory**

(A-F only; Prereq: MORT 3171, concurrent registration  
is required (or allowed) in 3051, 3151 and 3161,  
mortuary science major)  
27652 001 LEC, 09:00-11:30 T, Jackson Hall 2-121, In  
Person Term Based; Giselle Wynia ; 3 cr.

**3090 Independent Study Project**

(Student Option; Prereq: Mortuary science major)  
27784 001 IND, 10:00-10:50 W, No Room Required,  
Independent/Directed Study; Michael Mathews ; 1-15 cr.



17042 001 LEC, 08:00-09:30 TTh, Ferguson Hall 225, In Person Term Based; Lars Christensen, Quentin Dishman ; 3 cr.  
 17043 002 DIS, 09:05-09:55 F, Ferguson Hall 107, In Person Term Based; Quentin Dishman ; 3 cr.  
 17044 003 DIS, 09:05-09:55 F, Ferguson Hall 115, In Person Term Based; Anya Badaldavood ; 3 cr.  
 17045 005 DIS, 10:10-11:00 F, Ferguson Hall 115, In Person Term Based; Anya Badaldavood ; 3 cr.  
 17770 004 DIS, 10:10-11:00 F, Ferguson Hall 107, In Person Term Based; Quentin Dishman ; 3 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)  
 18629 001 DIS, 11:15-12:30 MW, Ferguson Hall 225, In Person Term Based; Scott Currie, Cassandra Velcko ; 3 cr.

### 1912 Guitar Heroes

(Student Option No Audit; )  
 34587 001 DIS, 16:00-18:30 T, Room TBA, In Person Term Based; Maja Radovanlija ; 3 cr.

### 1913 Striving to be a Creative Leader

(A-F only; )  
 34741 001 DIS, 09:45-11:00 TTh, Ferguson Hall 85, In Person Term Based; Jerry Luckhardt ; 3 cr.

### 1914W Music in Nazi Germany

(Student Option No Audit; CIV,WI)  
 21164 001 DIS, 09:45-11:00 TTh, Ferguson Hall 149, In Person Term Based; Karen Painter ; 3 cr.

### 1915 The Color of Music

(Student Option No Audit; )  
 20961 001 DIS, 13:25-15:55 T, Ferguson Hall 105, In Person Term Based; Gabriela Currie ; 3 cr.

### 1916 All About Music: Its Meaning, Reality, Communication, and Embodiment

(Student Option; TS)  
 34588 001 DIS, 12:20-14:15 Th, Ferguson Hall 225, 12:20-13:10 T, Ferguson Hall 225, In Person Term Based; Guerino Mazzola ; 3 cr.

### 3021 Introduction to Music

(Student Option; AH)  
 17114 001 LEC, 10:10-11:00 MWF, Ferguson Hall 225, In Person Term Based; Meets With: 001 MUS 1021; Peter Mercer-Taylor ; 3 cr.

### 3200 Campus Singers

(Student Option; )  
 19173 001 LAB, 12:15-13:15 TTh, Ferguson Hall 90, In Person Term Based; Kira Winter ; 2 cr.  
 19174 002 LAB, 18:00-20:00 M, Ferguson Hall 90, In Person Term Based; Matthew Abernathy, Vinay Thomas ; 2 cr.  
 19175 003 LAB, 18:00-20:00 W, Ferguson Hall 90, In Person Term Based; Christopher McGinley ; 2 cr.  
 19321 004 LAB, 15:35-17:05 MW, Ferguson Hall 225, In Person Term Based; Matthew Mehaffey, Matthew Abernathy, Vinay Thomas ; 2 cr.

### 3230 Chorus

(Student Option; Prereq: Choral and/or instrumental music background, audition, instr consent)  
 16985 001 LAB, 15:35-17:05 MW, Ferguson Hall 90, In Person Term Based; Meets With: 001 MUS 5230; Kathy Romey, Matthew Mehaffey, Matthew Abernathy, Vinay Thomas ; 1-2 cr.

### 3261 Italian Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent registration is required (or allowed) in applied voice)  
 33356 001 LAB, 11:15-12:05 MW, Ferguson Hall 90, In Person Term Based; Jane Giering-De Haan ; 1 cr.

### 3263 German Diction for Singers

(A-F or Audit; Prereq: Voice or choral music major, concurrent registration is required (or allowed) in applied voice)  
 17074 001 LEC, 11:15-12:05 TTh, Ferguson Hall 90, In Person Term Based; Philip Zawisza ; 1 cr.

### 3340 Jazz Ensemble

(A-F or Audit; Prereq: Audition, instr consent)  
 16982 001 LEC, 15:35-17:00 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5340; Dean Sorenson ; 1 cr.  
 16983 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)  
 16957 001 LAB, 10:10-11:00 MW, Ferguson Hall 3, In Person Term Based; Philip Hey, Dean Sorenson ; 1 cr.  
 16958 002 LAB, 11:15-12:05 MW, Ferguson Hall 3, In Person Term Based; Philip Hey, Dean Sorenson ; 1 cr.  
 16959 003 LAB, 12:20-13:10 MW, Ferguson Hall 3, In Person Term Based; Philip Hey, Dean Sorenson ; 1 cr.

### 3380 Gospel Choir

(A-F only; )  
 21429 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; )  
 18329 001 LAB, 19:00-20:30 MTh, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5400; Betsy McCann ; 2 cr.  
 18330 002 LAB, 19:00-21:00 M, TCF Bank Stadium G065A, In Person Term Based; Meets With: 002 MUS 5400; Lance Sample ; 2 cr.  
 18725 003 LAB, 19:00-21:00 W, TCF Bank Stadium G065A, In Person Term Based; John Smith ; 2 cr.  
 19550 004 LAB, In Person Term Based; Shaun Evans ; 2 cr.

### 3410 University Wind Bands

(A-F or Audit; Prereq: Audition, instr consent)  
 17188 001 LAB, 13:25-15:20 MWF, Ferguson Hall 95, In Person Term Based; Meets With: 001 MUS 5410; Emily Threinen, John Smith ; 1 cr.  
 17189 002 LAB, 13:25-14:15 F, Room TBA, 13:25-15:20 TTh, Ferguson Hall 95, In Person Term Based; Meets With: 002 MUS 5410; Jerry Luckhardt, David Roush ; 1 cr.

### 3420 Orchestra

(A-F or Audit; Prereq: Audition, instr consent)  
 17040 001 LAB, 13:25-15:20 MWF, Ferguson Hall 85, In Person Term Based; Mark Russell Smith, Hisham Groover, Ho Yin Kwok, Qinqing Hilkert ; 1 cr.  
 20189 002 LAB, In Person Term Based; Mark Russell Smith, Hisham Groover ; 1 cr.

### 3430 Campus Orchestra

(Student Option; Prereq: Non-music major or unable to register for University Orchestra)  
 17255 001 LAB, 18:00-20:00 M, Ferguson Hall 85, In Person Term Based; Ho Yin Kwok, Hisham Groover, Qinqing Hilkert ; 2 cr.  
 18920 002 LAB, 18:00-20:00 T, Ferguson Hall 85, In Person Term Based; Ho Yin Kwok, Hisham Groover, Qinqing Hilkert ; 2 cr.  
 19244 003 LAB, 18:00-20:00 W, Ferguson Hall 85, In Person Term Based; Ho Yin Kwok, Hisham Groover, Qinqing Hilkert ; 2 cr.

### 3440 Chamber Ensemble

(A-F or Audit; Prereq: instr consent)  
 18867 001 LAB, 00:00-00:00 , In Person Term Based; Ellen Dinwiddie Smith ; 1 cr.  
 19187 002 LAB, 00:00-00:00 , In Person Term Based; Meets With: 002 MUS 5440; Stephanie Crabb ; 1 cr.  
 19204 003 LAB, 00:00-00:00 , In Person Term Based; Meets With: 003 MUS 5440; Thomas Ashworth ; 1 cr.  
 19205 004 LAB, 00:00-00:00 , In Person Term Based; Immanuel Davis ; 1 cr.  
 19206 005 LAB, 00:00-00:00 , In Person Term Based; Meets With: 005 MUS 5440; Immanuel Davis ; 1 cr.  
 19794 006 LAB, 00:00-00:00 , In Person Term Based; Maja Radovanlija ; 1 cr.  
 19795 007 LAB, 00:00-00:00 , In Person Term Based; Meets With: 007 MUS 5440; Katherine Jarka ; 1 cr.  
 19800 008 LAB, 00:00-00:00 , In Person Term Based; Stephanie Arado ; 1 cr.  
 19802 009 LAB, 00:00-00:00 , In Person Term Based; David Baldwin ; 1 cr.  
 19803 010 LAB, 00:00-00:00 , In Person Term Based; Peter McGuire ; 1 cr.  
 19894 011 LAB, 00:00-00:00 , In Person Term Based; Maja Radovanlija ; 1 cr.  
 20066 012 LAB, 00:00-00:00 , In Person Term Based; Lydia Artymiw ; 1 cr.  
 20073 014 LAB, 00:00-00:00 , In Person Term Based; Jennifer Gerth ; 1 cr.  
 20076 013 LAB, 00:00-00:00 , In Person Term Based; Sally O'Reilly ; 1 cr.  
 20080 015 LAB, 00:00-00:00 , In Person Term Based; Preston Duncan ; 1 cr.  
 20081 016 LAB, 00:00-00:00 , In Person Term Based; Caroline Lemen ; 1 cr.  
 20083 017 LAB, 00:00-00:00 , In Person Term Based; Jean Del Santo ; 1 cr.  
 20308 018 LAB, In Person Term Based; Tanya Remenikova ; 1 cr.  
 20385 020 LAB, In Person Term Based; Paul Shaw ; 1 cr.

20387 021 LAB, In Person Term Based; Kyung Kim ; 1 cr.  
 20402 022 LAB, In Person Term Based; Timothy Lovelace ; 1 cr.  
 20403 023 LAB, In Person Term Based; Korey Konkol ; 1 cr.  
 20405 024 LAB, In Person Term Based; Alexander Braginsky ; 1 cr.  
 20407 025 LAB, In Person Term Based; Norbert Nielubowski ; 1 cr.  
 20411 026 LAB, In Person Term Based; Norbert Nielubowski ; 1 cr.  
 20630 019 LAB, In Person Term Based; Paul Shaw ; 1 cr.

### 3480 Marching Band

(A-F or Audit; Prereq: instr consent)  
 17039 001 LAB, 16:15-18:00 MTWThF, TCF Bank Stadium G065A, In Person Term Based; Betsy McCann, Lance Sample ; 2 cr.  
 20028 002 LAB, 19:00-22:00 W, Lab TBA, 16:15-18:00 MTWThF, Lab TBA, In Person Term Based; Betsy McCann, Lance Sample ; 2 cr.  
 20029 003 LAB, 19:00-22:00 W, Lab TBA, 16:15-18:00 MTWThF, Lab TBA, In Person Term Based; Betsy McCann, Lance Sample ; 2 cr.

### 3490 Athletics Bands

(A-F or Audit; Prereq: instr consent)  
 18206 001 LAB, 00:00-00:00 , In Person Term Based; Betsy McCann, Lance Sample ; 1 cr.  
 18456 002 LAB, 00:00-00:00 , In Person Term Based; Betsy McCann, Lance Sample ; 1 cr.  
 18457 003 LAB, 00:00-00:00 , In Person Term Based; Betsy McCann, Lance Sample ; 1 cr.

### 3501 Theory and Analysis of Tonal Music III

(A-F or Audit; Prereq: [MUS 1511, MUS 1512] with grade of at least C- or higher.)  
 17741 002 DIS, 08:00-08:50 M, Ferguson Hall 115, In Person Term Based; Varun Chandrasekhar ; 2 cr.  
 17807 003 DIS, 08:00-08:50 M, Ferguson Hall 123, In Person Term Based; Ryan O'Dell ; 2 cr.  
 17808 004 DIS, 08:35-09:25 T, Ferguson Hall 123, In Person Term Based; Matthew Stanley ; 2 cr.  
 17827 001 LEC, 09:05-09:55 WF, Ferguson Hall 225, In Person Term Based; David Damschroder ; 2 cr.  
 18040 005 DIS, 08:35-09:25 T, Ferguson Hall 149, In Person Term Based; Kai Yin Lo ; 2 cr.

### 3508 Review of Tonal Theory

(Student Option; Prereq: Theory placement exam)  
 17332 001 LEC, 08:15-09:30 TTh, Ferguson Hall 105, In Person Term Based; Hon Ki Cheung ; 2 cr.

### 3511 Ear-Training and Sight-Singing III

(A-F or Audit; Prereq: [MUS 1502, MUS 1512] with grade of at least C- or higher, or diagnostic test administered by School of Music)  
 18314 001 LEC, 09:05-09:55 M, Ferguson Hall 225, In Person Term Based; David Damschroder ; 1 cr.  
 18315 002 DIS, 08:00-08:50 W, Ferguson Hall 115, In Person Term Based; Varun Chandrasekhar ; 1 cr.  
 18316 003 DIS, 08:00-08:50 W, Ferguson Hall 123, In Person Term Based; Ryan O'Dell ; 1 cr.  
 18317 004 DIS, 08:35-09:25 Th, Ferguson Hall 123, In Person Term Based; Matthew Stanley ; 1 cr.  
 18318 005 DIS, 08:35-09:25 Th, Ferguson Hall 149, In Person Term Based; Kai Yin Lo ; 1 cr.

### 3518 Review of Ear-Training and Sight-Singing

(Student Option; Prereq: Theory Placement Exam)  
 17333 001 LEC, 10:10-11:00 TTh, Ferguson Hall 105, In Person Term Based; Hon Ki Cheung ; 1 cr.

### 3602W History of Western Music II

(A-F or Audit; Prereq: MUS 1502, MUS 1512, and MUS 3601 OR instr consentWI)  
 17737 001 LEC, 09:35-11:00 TTh, Ferguson Hall 225, In Person Term Based; David Grayson ; 3 cr.  
 17738 002 DIS, 08:00-08:50 F, Ferguson Hall 105, In Person Term Based; Anne Briggs ; 3 cr.  
 17739 003 DIS, 08:00-08:50 F, Ferguson Hall 149, In Person Term Based; Corey Lohman ; 3 cr.  
 17740 004 DIS, 10:10-11:00 F, Ferguson Hall 105, In Person Term Based; Anne Briggs ; 3 cr.  
 18724 005 DIS, 10:10-11:00 F, Ferguson Hall 149, In Person Term Based; Corey Lohman ; 3 cr.

### 3950 Topics in Music

(Student Option; )  
 33869 001 LEC, 18:00-20:00 W, Ferguson Hall 123, In Person Term Based; Maja Radovanlija ; 1-3 cr.

### 3993 Directed Studies

(A-F or Audit; Prereq instr consent, dept consent, college consent.)



**1107 Cello: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
21370 001 LAB, In Person Term Based; Tanya Remenikova ; 2-4 cr.  
34744 002 LAB, In Person Term Based; Omar Macias ; 2-4 cr.

**1109 Flute: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
21538 001 LAB, In Person Term Based; Immanuel Davis ; 2-4 cr.  
34988 002 LAB, In Person Term Based; Savannah Ridley ; 2-4 cr.

**1111 Oboe: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
21508 001 LAB, In Person Term Based; John Snow ; 2-4 cr.

**1112 Clarinet: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
19808 001 LAB, 00:00-00:00 , , In Person Term Based; Jan Scholl ; 2-4 cr.  
21529 002 LAB, In Person Term Based; Jennifer Gerth ; 2-4 cr.  
21530 003 LAB, In Person Term Based; Timothy Zavadil ; 2-4 cr.

**1113 Saxophone: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
20363 001 LAB, In Person Term Based; Preston Duncan ; 2-4 cr.

**1115 French Horn: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
19807 001 LAB, 00:00-00:00 , , In Person Term Based; Caroline Lemen ; 2-4 cr.

**1116 Trumpet: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
20060 001 LAB, 00:00-00:00 , , In Person Term Based; Marissa Benedict ; 2-4 cr.  
21500 002 LAB, In Person Term Based; Charles Lazarus ; 2-4 cr.

**1117 Trombone: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
34989 001 LAB, In Person Term Based; Thomas Ashworth ; 2-4 cr.

**1118 Euphonium: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
21550 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)  
35622 001 LAB, In Person Term Based; John Tranter ; 2-4 cr.

**1121 Percussion: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
20400 001 LAB, In Person Term Based; Fernando Meza ; 2-4 cr.  
20773 002 LAB, In Person Term Based; Philip Hey ; 2-4 cr.  
35531 003 LAB, In Person Term Based; John Donovan ; 2-4 cr.

**1123 Guitar: Elective (non-major in music)**

(A-F or Audit; Prereq: dept consent)  
17748 001 LAB, 00:00-00:00 , , In Person Term Based; Jeremy Hiniker ; 2-4 cr.  
18070 002 LAB, 00:00-00:00 , , In Person Term Based; 2-4 cr.  
18796 003 LAB, 00:00-00:00 , , In Person Term Based; Samuel Hines ; 2-4 cr.

**1201 Piano: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
34123 001 IND, In Person Term Based; Alexander Braginsky ; 2 cr.  
34124 002 IND, In Person Term Based; Paul Shaw ; 2 cr.

**1203 Organ: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent This course is offered for 2 credits

and meets for two hours a week; one hour being a one-on-one lesson between the instructor and student, and another hour in the instructor-led studio class.)

34130 001 IND, In Person Term Based; Dean Billmeyer ; 2 cr.

**1204 Voice: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19383 001 IND, 14:30-15:30 TTh, Room TBA, In Person Term Based; Jean Del Santo ; 2 cr.  
19384 002 IND, 14:30-15:30 TTh, Room TBA, In Person Term Based; Wendy Zaro-Mullins ; 2 cr.  
19385 005 IND, 14:30-15:30 TTh, Room TBA, In Person Term Based; Philip Zawisza ; 2 cr.  
21450 003 IND, In Person Term Based; Adriana Zabala ; 2 cr.  
21507 006 IND, 14:30-15:30 TTh, Room TBA, In Person Term Based; Jane Giering-De Haan ; 2 cr.  
21509 004 IND, 14:30-15:30 TTh, Room TBA, In Person Term Based; John De Haan ; 2 cr.

**1205 Violin: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
21491 001 IND, 15:30-18:30 Th, Room TBA, In Person Term Based; Kyu-Young Kim ; 2 cr.  
34131 002 IND, In Person Term Based; Peter McGuire ; 2 cr.  
35029 003 IND, In Person Term Based; Sally O'Reilly ; 2 cr.

**1206 Viola: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19778 001 IND, 15:30-18:30 Th, Room TBA, In Person Term Based; Corey Konkol ; 2 cr.

**1207 Cello: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
34085 001 IND, In Person Term Based; Tanya Remenikova ; 2 cr.

**1208 Double Bass: Music Education and BA**

(A-F only; )  
21519 001 IND, In Person Term Based; David Williamson ; 2 cr.

**1209 Flute: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19751 001 IND, 15:35-17:30 M, Room TBA, In Person Term Based; Immanuel Davis ; 2 cr.

**1211 Oboe: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
34132 001 IND, In Person Term Based; John Snow ; 2 cr.

**1212 Clarinet: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19567 001 IND, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Jennifer Gerth ; 2 cr.  
20632 003 IND, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Timothy Zavadil ; 2 cr.  
21293 002 IND, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Jan Scholl ; 2 cr.

**1213 Saxophone: Music Ed and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19386 001 IND, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room 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)  
34135 001 IND, 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)  
21446 001 IND, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen ; 2 cr.  
35023 002 IND, 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)  
19380 001 IND, 15:35-17:35 M, Room 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)  
19379 001 IND, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Thomas Ashworth ; 2 cr.

**1218 Euphonium: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
35276 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)  
21504 001 IND, 18:00-19:00 T, Room 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)  
19381 001 IND, 15:30-16:30 W, Room TBA, In Person Term Based; Fernando Meza ; 2 cr.  
34136 002 IND, In Person Term Based; Peter Kogan ; 2 cr.

**1223 Guitar: Music Education and BA**

(A-F only; Prereq: [Music education or BA applied] major, dept consent)  
19965 001 IND, 00:00-00:00 , , In Person Term Based; Maja Radovanlija ; 2 cr.

**1301 Piano: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
19179 003 LAB, 16:30-18:30 T, Room TBA, 13:15-15:15 W, Room TBA, In Person Term Based; Paul Shaw ; 2-4 cr.  
20313 004 LAB, 12:30-14:30 M, Room TBA, In Person Term Based; Kyung Kim ; 2-4 cr.  
21447 002 LAB, 14:00-15:30 F, Room TBA, In Person Term Based; Alexander Braginsky ; 2-4 cr.  
35000 005 LAB, In Person Term Based; Michael Kim ; 2-4 cr.

**1302 Harpsichord: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
34137 001 LAB, In Person Term Based; Dean Billmeyer ; 2-4 cr.

**1303 Organ: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
19967 001 LAB, 00:00-00:00 , , In Person Term Based; Dean Billmeyer ; 2-4 cr.

**1304 Voice: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
17116 001 LAB, 14:30-15:30 TTh, Room TBA, In Person Term Based; Jean Del Santo ; 2-4 cr.  
17749 002 LAB, 14:30-15:30 TTh, Room TBA, In Person Term Based; Wendy Zaro-Mullins ; 2-4 cr.  
17750 003 LAB, 14:30-15:30 TTh, Room TBA, In Person Term Based; Adriana Zabala ; 2-4 cr.  
17751 004 LAB, 14:30-15:30 TTh, Room TBA, In Person Term Based; John De Haan ; 2-4 cr.  
19180 005 LAB, 14:30-15:30 TTh, Room TBA, In Person Term Based; Philip Zawisza ; 2-4 cr.  
20768 006 LAB, In Person Term Based; Jane Giering-De Haan ; 2-4 cr.

**1305 Violin: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
21532 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Peter McGuire ; 2-4 cr.  
34139 002 LAB, In Person Term Based; Sally O'Reilly ; 2-4 cr.

**1306 Viola: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
18739 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Corey Konkol ; 2-4 cr.

**1307 Cello: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
17307 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Tanya Remenikova ; 2-4 cr.

**1308 Double Bass: Music Major**

(A-F or Audit; Prereq: Audition, dept consent)  
17308 001 LAB, 15:30-16:30 W, Room TBA, In Person Term Based; Meets With: 001 MUSA 8308001 MUSA 2308; Christopher Brown ; 2-4 cr.  
20751 002 LAB, 15:30-16:30 W, Room TBA, In Person Term Based; David Williamson ; 2-4 cr.

**1309 Flute: Music Major**

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





21414 004 LAB, In Person Term Based; John De Haan ; 2-4 cr.

21415 006 LAB, In Person Term Based; Jane Giering-De Haan ; 2-4 cr.

### 3305 Violin: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
18759 002 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Peter McGuire ; 2-4 cr.  
33990 003 LAB, In Person Term Based; Sally O'Reilly ; 2-4 cr.

### 3306 Viola: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
21407 001 LAB, In Person Term Based; Korey Konkol ; 2-4 cr.

### 3307 Cello: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
17335 001 LAB, 15:30-18:30 Th, Room TBA, In Person Term Based; Tanya Remenikova ; 2-4 cr.

### 3308 Double Bass: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
19348 001 LAB, 17:00-18:30 Th, Room TBA, 15:30-17:30 W, Room TBA, In Person Term Based; Christopher Brown ; 2-4 cr.  
21398 002 LAB, In Person Term Based; David Williamson ; 2-4 cr.

### 3309 Flute: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
17758 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Immanuel Davis ; 2-4 cr.  
34281 001 LAB, In Person Term Based; Julia Bogorad ; 2-4 cr.

### 3311 Oboe: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
18799 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; John Snow ; 2-4 cr.

### 3312 Clarinet: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
20636 002 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Timothy Zavadii ; 2-4 cr.  
35098 003 LAB, In Person Term Based; Jennifer Gerth ; 2-4 cr.

### 3313 Saxophone: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
17759 001 LAB, 15:45-17:00 W, Room TBA, 15:35-17:30 M, Room TBA, In Person Term Based; Preston Duncan ; 2-4 cr.

### 3314 Bassoon: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
34285 001 LAB, In Person Term Based; John Miller ; 2-4 cr.  
34286 002 LAB, In Person Term Based; Norbert Nielubowski ; 2-4 cr.

### 3315 French Horn: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
17760 002 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Caroline Lemen ; 2-4 cr.  
20772 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Ellen Dinwiddie Smith ; 2-4 cr.

### 3316 Trumpet: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
21402 001 LAB, In Person Term Based; Marissa Benedict ; 2-4 cr.  
21531 002 LAB, In Person Term Based; Charles Lazarus ; 2-4 cr.

### 3317 Trombone: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
17336 001 LAB, 15:30-17:35 W, Room TBA, 15:35-17:35 M, Room TBA, In Person Term Based; Thomas Ashworth ; 2-4 cr.

### 3318 Euphonium: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
34288 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; John Tranter ; 2-4 cr.

### 3319 Tuba: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
34289 001 LAB, 18:00-19:00 T, Room TBA, In Person Term Based; Steven Campbell ; 2-4 cr.

### 3322 Harp: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
34290 001 LAB, In Person Term Based; Kathy Kienzle ; 2-4 cr.

### 3323 Guitar: Music Major

(A-F or Audit; Prereq: Audition, dept consent)  
18331 001 LAB, 15:30-17:00 F, Room TBA, In Person Term Based; Maja Radovanlija ; 2-4 cr.

### 5101 Piano: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34291 001 LAB, In Person Term Based; 2 cr.

### 5103 Organ: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34292 001 LAB, In Person Term Based; Dean Billmeyer ; 2 cr.

### 5104 Voice: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34302 001 LAB, In Person Term Based; Wendy Zaro-Mullins ; 2 cr.

### 5105 Violin: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34305 001 LAB, In Person Term Based; 2 cr.  
34306 002 LAB, In Person Term Based; ; 2 cr.

### 5116 Trumpet: Elective Individual Lessons (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
20762 001 LAB, In Person Term Based; 2 cr.

### 5121 Percussion: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34307 001 LAB, In Person Term Based; 2 cr.

### 5123 Guitar: Elective (graduate non-major in music)

(A-F or Audit; Prereq: dept consent)  
34308 001 LAB, In Person Term Based; 2 cr.

### 5401 Piano: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
18760 001 LAB, 00:00-00:00 , , In Person Term Based; Kyung Kim ; 2-4 cr.  
21518 002 LAB, In Person Term Based; Kyung Kim ; 2-4 cr.  
35486 003 LAB, In Person Term Based; Paul Shaw ; 2-4 cr.

### 5403 Organ: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
21358 001 LAB, In Person Term Based; Dean Billmeyer ; 2-4 cr.

### 5404 Voice: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
19805 005 LAB, In Person Term Based; Philip Zawisza ; 2-4 cr.  
20380 002 LAB, In Person Term Based; Ronnie Bell ; 2-4 cr.  
21483 001 LAB, In Person Term Based; Wendy Zaro-Mullins ; 2-4 cr.

### 5405 Violin: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
34309 001 LAB, In Person Term Based; Kyu-Young Kim ; 2-4 cr.

### 5408 Double Bass: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
21533 001 LAB, In Person Term Based; Christopher Brown ; 2-4 cr.

### 5409 Flute: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
19604 001 LAB, 00:00-00:00 , , In Person Term Based; Immanuel Davis ; 2-4 cr.

### 5414 Bassoon: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
19429 001 LAB, 00:00-00:00 , , In Person Term Based; Norbert Nielubowski ; 2-4 cr.

### 5417 Trombone: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
19225 001 LAB, In Person Term Based; Thomas Ashworth ; 2-4 cr.  
21524 002 LAB, In Person Term Based; John Tranter ; 2-4 cr.

### 5421 Percussion: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
21505 001 LAB, In Person Term Based; Philip Hey ; 2-4 cr.

### 5423 Guitar: Music Major Secondary (graduate)

(A-F or Audit; Prereq: Audition, dept consent)  
21543 001 LAB, In Person Term Based; Maja Radovanlija ; 2-4 cr.

## Music Education (MUED)

### 1201 Introduction to Music Education

(A-F only; )  
20500 001 LEC, 11:15-12:05 MW, Ferguson Hall 107, In Person Term Based; Laura Sindberg ; 2 cr.

### 1801 Introduction to Music Therapy

(A-F or Audit; )  
17209 001 LEC, 12:20-13:10 MW, Ferguson Hall 107, In Person Term Based; Rebecca West ; 2 cr.

### 3011 Music in Childhood

(Student Option; )  
19255 001 LEC, 13:25-14:55 MW, Ferguson Hall 107, In Person Term Based; Adrian Davis ; 3 cr.

### 3802 Guitar I for Music Education and Music Therapy Majors: Developing Group Songleading Skills

(A-F only; Prereq: [Music therapy or music education major], dept consent)  
18742 001 LAB, 08:00-08:50 MW, Ferguson Hall 90, In Person Term Based; Edward Schwartzberg ; 2 cr.

### 4417 Style, Pedagogy, and Diction in the Choral Music Classroom I

(A-F only; Prereq: two semesters of applied voice at college level)  
33310 001 LAB, 13:25-14:15 TTh, Ferguson Hall 115, In Person Term Based; Wendy Zaro-Mullins ; 2 cr.

### 4504 Brass Techniques and Teaching

(A-F or Audit; )  
20979 001 LAB, 10:10-11:00 F, Room TBA, 10:10-11:00 MWF, Ferguson Hall 85, In Person Term Based; Christian Howard ; 2 cr.

### 4505 Percussion Techniques and Teaching

(A-F or Audit; )  
20980 001 LAB, 12:20-13:10 MWF, Ferguson Hall 95, In Person Term Based; John Donovan ; 2 cr.

### 5101 Improvisation and Creativity in the Music Classroom

(A-F only; Prereq: At least C- in MUS 4504 or instructor permission)  
20502 001 LAB, 10:10-11:00 MW, Ferguson Hall 95, In Person Term Based; Scott Currie, Dean Sorenson ; 2 cr.

### 5302 General Music II

(A-F only; Prereq: MUED 5301, MUED 1201, MUS 4504, and MUS 4514 with a grade of at least C-)  
20503 001 LEC, 10:00-11:45 TTh, Ferguson Hall 107, In Person Term Based; Emily Heuschele ; 3 cr.

### 5350 Student Teaching in Classroom Music

(A-F or Audit; )  
20504 001 FWK, In Person Term Based; Scott Iseminger ; 4-8 cr.

### 5416 Choral/Vocal Methods and Materials II

(A-F only; Prereq: MUED 5415, MUED 1201, MUS 4504, and MUS 4514 with grade of at least C-, [music education major or instr consent], completion of the Music Education sophomore proficiency exam)



20501 001 LAB, 14:30-16:15 M, Ferguson Hall 157,  
11:30-12:45 F, Ferguson Hall 157, In Person Term Based;  
Christopher McGinley ; 3 cr.

### 5419 Advanced Conducting and Repertoire (Choral)

(A-F only; Prereq: 3416, MUS 3401, MUS 3502, MUS 3512, music education major [choral])  
20967 001 LAB, 09:30-12:00 F, Room TBA, In Person Term Based; Matthew Mehaffey ; 2 cr.

### 5450 Student Teaching in Vocal Music

(A-F or Audit; )  
20505 001 FWK, In Person Term Based; Keitha Hamann ; 4-8 cr.

### 5517 Instrumental Methods and Materials II

(A-F only; Prereq: MUED 5517, MUED 1201, MUS 4504, and MUS 4514 with a grade of C- or better, music education major, completion of the Music Education sophomore proficiency exam)  
20506 001 LEC, 08:00-09:45 TTh, Ferguson Hall 95, In Person Term Based; Emily Heuschele ; 3 cr.

### 5519 Advanced Conducting and Repertoire (Instrumental)

(A-F only; Prereq: 3517, MUS 3502, MUS 3512, music education major, dept consent)  
20507 001 LAB, 12:20-13:10 TTh, Ferguson Hall 95, In Person Term Based; Jerry Luckhardt ; 2 cr.

### 5550 Student Teaching in Instrumental Music

(A-F or Audit; )  
20508 001 FWK, In Person Term Based; Emily Heuschele ; 4-8 cr.

### 5650 Student Teaching Seminar

(A-F or Audit; Prereq: At least C- in all required [music, music education, professional education] courses)  
34613 001 LEC, 16:00-17:40 T, Room TBA, In Person Term Based; Casey Clementson ; 2 cr.

### 5669 Psychology of Music

(A-F or Audit; Prereq: Psy 1001 or Psy 3604 or instr consent)  
20176 001 DIS, 16:30-19:00 M, Ferguson Hall 105, In Person Term Based; Casey Clementson ; 3 cr.

### 5803 Therapeutic Management in Music Settings

(A-F only; Prereq: [5804, 5805] or instr consent)  
18653 001 LEC, 10:10-11:00 MWThF, Ferguson Hall 151, In Person Term Based; Michael Silverman ; 4 cr.

### 5804 Music Therapy Methods and Procedures I

(A-F or Audit; Prereq: 5800 or instr consent)  
18524 001 LEC, 09:05-09:55 MWThF, Ferguson Hall 151, In Person Term Based; Edward Schwartzberg ; 4 cr.

### 5807 Psychiatric Music Therapy

(A-F only; Prereq: Grad music therapy student or instr consent)  
33311 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)  
17498 001 FWK, In Person Term Based; Michael Silverman ; 1-13 cr.

### 5991 Independent Study

(A-F or Audit; Prereq: Music ed or music therapy major or grad, instr consent, dept consent)  
17046 777 IND, In Person Term Based; 1-4 cr.

## Natural Resources Sci and Mgmt (NR)

### 5021 Statistics for Agricultural and Natural Resource Professionals

(Student Option; Prereq: College algebra)  
22194 001 LEC, 08:45-10:00 MW, Green Hall 203, In Person Term Based; Matthew Russell ; 3 cr.

## Naval Science (NAV)

### 1000 Professional Training in Naval Science

(S-N or Audit; Prereq: enrolled in NROTC)  
30013 001 LAB, 06:15-08:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 2000001 NAV 3000001 NAV 4000; Michael Marini ; 1 cr.

### 1101 Introduction to Naval Science

(A-F or Audit; )  
30009 001 LEC, 09:45-11:00 TTh, Armory Building 205, In Person Term Based; Nicholie Bufkin ; 3 cr.

### 2000 Professional Training in Naval Science

(S-N or Audit; Prereq: Soph enrolled in NROTC)  
30014 001 LAB, 06:15-08:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 3000001 NAV 4000; Michael Marini ; 1 cr.

### 2201 Ship Systems I: Naval Engineering

(A-F or Audit; )  
30031 001 LEC, 10:10-12:40 F, Armory Building 205, In Person Term Based; Edgard Corea ; 3 cr.

### 3000 Professional Training in Naval Science

(S-N or Audit; Prereq: Jr enrolled in NROTC)  
30015 001 LAB, 06:15-08:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 2000001 NAV 4000; Michael Marini ; 1 cr.

### 3302 Navigation II: Seamanship and Ship Operations

(A-F or Audit; Prereq: 3301)  
30032 001 LEC, 08:30-09:45 MW, Room TBA, In Person Term Based; Sean Lawlor ; 3 cr.

### 3310 Evolution of Warfare

(A-F or Audit; )  
30059 001 LEC, 11:15-12:30 TTh, Armory Building 205, In Person Term Based; Michael Marini ; 3 cr.

### 4000 Professional Training in Naval Science

(S-N or Audit; Prereq: Sr enrolled in NROTC)  
30016 001 LAB, 06:15-08:50 T, Armory Building 202, In Person Term Based; Meets With: 001 NAV 1000001 NAV 2000001 NAV 3000; Michael Marini ; 1 cr.

### 4401W Leadership and Management I

(A-F or Audit; WI)  
30010 001 LEC, 09:45-11:00 MW, Armory Building 202, In Person Term Based; Christopher Carter ; 3 cr.  
34831 002 LEC, 08:15-09:30 MW, Armory Building 205, In Person Term Based; Christopher Carter ; 3 cr.

## Neurology (NEUR)

## Neuroscience (NSC)

### 5461 Cellular and Molecular Neuroscience

(A-F or Audit; Prereq: NSc grad student or instr consent)  
27997 001 LEC, 08:30-10:00 MWF, Weaver-Densford Hall W2-110, In Person Term Based; Eric Newman ; 4 cr.

### 5551 Itasca Cell and Molecular

Neurobiology Laboratory  
(S-N or Audit; Prereq: Neuroscience grad or instr consent)  
28006 001 LAB, 00:00-00:00 , , In Person Term Based; 4 cr.

### 5561 Systems Neuroscience

(A-F or Audit; Prereq: NSc grad student or instr consent)  
27672 001 LEC, 10:10-11:00 MWF, Weaver-Densford Hall W2-110, In Person Term Based; Lucy Vulchanova ; 4 cr.  
27761 002 LAB, 09:00-12:00 T, AHC ROOM TBA, In Person Term Based; Lucy Vulchanova ; 4 cr.

## Neuroscience Department (NSCI)

### 1001 Fundamental Neuroscience:

Understanding Ourselves  
(A-F only; TS)

27995 001 LEC, 13:00-14:15 TTh, Moos Health Sci Tower 2-620, In Person Term Based; Paul Mermelstein, Robert Meisel ; 3 cr.

### 2100 Human Neuroanatomy

(Student Option; BIOL)  
28010 001 LEC, 13:25-14:15 MWF, Moos Health Sci Tower 2-620, In Person Term Based; Martin Wessendorf ; 4 cr.  
28012 002 LAB, 10:10-12:10 M, Lab TBA, In Person Term Based; Dezhi Liao, Martin Wessendorf ; 4 cr.  
28013 003 LAB, 14:30-16:30 M, Lab TBA, In Person Term Based; Dezhi Liao, Martin Wessendorf ; 4 cr.  
28014 004 LAB, 14:30-16:30 M, Lab TBA, In Person Term Based; Maureen Riedl, Martin Wessendorf ; 4 cr.  
28015 005 LAB, 13:25-15:25 T, Lab TBA, In Person Term Based; Wensheng Lin, Martin Wessendorf ; 4 cr.  
28028 006 LAB, 10:10-12:10 W, Lab TBA, In Person Term Based; Wensheng Lin, Martin Wessendorf ; 4 cr.  
28036 007 LAB, 10:10-12:10 Th, Lab TBA, In Person Term Based; Steven McLoon, Wensheng Lin, Martin Wessendorf ; 4 cr.  
28066 008 LAB, 13:25-15:25 Th, Lab TBA, In Person Term Based; Martin Wessendorf ; 4 cr.

### 3101 Neurobiology I: Molecules, Cells, and Systems

(A-F or Audit; Prerequisites. Enrollment Requirements: Biol 3020 OR concurrent/previous BioC 3021/3022/4331 or equivalent. Nsci 2001/2100 highly recommended.)  
27780 001 LEC, 09:05-09:55 MWF, Moos Health Sci Tower 2-530, 09:05-09:55 M, Moos Health Sci Tower 2-690, 09:05-09:55 MWF, Moos Health Sci Tower 2-530, In Person Term Based; Meets With: 001 NSCI 5101; Lorene Lanier ; 3 cr.

### 3102W Neurobiology II: Perception and Behavior

(A-F or Audit; WI)  
33726 001 LEC, 13:25-14:15 WF, Bruininks Hall 123, In Person Term Based; Geoffrey Ghose ; 3 cr.  
33727 002 DIS, 13:25-14:15 M, Bruininks Hall 123, In Person Term Based; 3 cr.  
33728 003 DIS, 14:25-15:15 M, Bruininks Hall 420B, In Person Term Based; 3 cr.

### 4101 Development of the Nervous System: Cellular and Molecular Mechanisms

(A-F only; Prereq: Biol 3020 OR concurrent/previous BioC 3021/3022/4331 or equivalent. Nsci 2001/2100 highly recommended.)  
27928 001 LEC, 10:10-11:00 MWF, Moos Health Sci Tower 2-530, 10:10-11:00 M, Moos Health Sci Tower 2-620, 10:10-11:00 MWF, Moos Health Sci Tower 2-530, In Person Term Based; Yasushi Nakagawa ; 3 cr.

### 4150 Advanced Topics in Neuroscience

(A-F or Audit; )  
33811 001 LEC, 13:00-17:15 T, Moos Health Sci Tower 2-118, In Person Term Based; Lorene Lanier ; 3 cr.  
34524 002 LEC, 09:45-11:00 TTh, Weaver-Densford Hall W2120, In Person Term Based; Janet Dubinsky ; 3 cr.

### 4793W Directed Studies: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)  
27768 001 IND, 00:00-00:00 , , In Person Term Based; Lorene Lanier ; 1-6 cr.

### 4794W Directed Research: Writing Intensive

(S-N or Audit; Prereq: instr consent, dept consent; no more than 7 cr of [4793, 4794, 4993, 4994] may count toward major requirementsWI)  
27769 001 IND, 00:00-00:00 , , In Person Term Based; Lorene Lanier ; 1-6 cr.

### 4993 Directed Studies

(S-N or Audit; Prereq: instr consent, dept consent; max of 7 cr of 4993 and/or 4994 may count toward major requirements)  
27770 001 IND, 00:00-00:00 , , In Person Term Based; Lorene Lanier ; 1-7 cr.

### 4994 Directed Research

(S-N or Audit; Prereq: instr consent, dept consent; max of 7 cr of 4993 and/or 4994 may count toward major requirements)  
27771 001 IND, 00:00-00:00 , , In Person Term Based; 1-6 cr.

### 5101 Neurobiology I: Molecules, Cells, and Systems

**(A-F or Audit; Prerequisites.)**

28005 001 LEC, 09:05-09:55 MWF, Moos Health Sci Tower 2-530, 09:05-09:55 M, Moos Health Sci Tower 2-690, 09:05-09:55 MWF, Moos Health Sci Tower 2-530, In Person Term Based; Meets With: 001 NSCI3101; Lorene Lanier ; 3 cr.

**Neurosurgery (NSU)****5667 Neurobiology of Disease**

(Student Option; )  
27917 001 LEC, 00:00-00:00 , , In Person Term Based; 2-3 cr.

**Norwegian (NOR)****1001 Beginning Norwegian**

(Student Option; )  
17170 002 DIS, 16:40-18:50 MW, Peik Hall 165, In Person Term Based; Meets With: 002 NOR 4001; Kyle Korynta ; 5 cr.  
18171 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 NOR 4001; Kyle Korynta ; 5 cr.

**1003 Intermediate Norwegian**

(Student Option; Prereq: 1002)  
18170 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 NOR 4003; Hanna Zmijewska-Emerson ; 5 cr.

**4001 Beginning Norwegian for Graduate**

**Research**  
(Student Option; )  
17474 001 DIS, 10:10-11:00 MTWThF, Folwell Hall 31, In Person Term Based; Meets With: 001 NOR 1001; Kyle Korynta ; 5 cr.  
18173 002 DIS, 16:40-18:50 MW, Peik Hall 165, In Person Term Based; Meets With: 002 NOR 1001; Kyle Korynta ; 5 cr.

**4003 Intermediate Norwegian for Graduate**

**Research**  
(Student Option; )  
18172 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 10, In Person Term Based; Meets With: 001 NOR 1003; Hanna Zmijewska-Emerson ; 5 cr.

**Nursing (NURS)****1030 Nursing First Year Seminar I**

(Student Option; Prereq: Freshman guarantee student, instr consent)  
28770 001 LEC, 12:20-13:10 T, Mayo Bldg & Additions 3-125, In Person Term Based; Carol Flaten ; 1 cr.

**2001 Human Growth and Development: A Life Span Approach**

(Student Option; )  
28776 001 LEC, Completely Online; Laura Kirk, Eunice Areba ; 3 cr.  
28788 002 LEC, Completely Online; Eunice Areba, Laura Kirk ; 3 cr.

**3115 Health Informatics and Information Technology**

(A-F only; TS)  
28786 001 LEC, Completely Online; Lisiane Pruinelli, Chih-Lin Chi ; 3 cr.  
28787 002 LEC, Completely Online; Lisiane Pruinelli, Chih-Lin Chi ; 3 cr.

**3703 Assessment and Beginning**

**Interventions: Nursing Lab 1**  
(A-F only; Prereq: Admitted to Nurs BSN program)  
28797 001 LAB, 13:25-16:25 F, Moos Health Sci Tower 1-450, 13:25-17:30 T, Weaver-Densford Hall 4-142, In Person Term Based; 2 cr.  
28801 002 LAB, 13:25-16:25 F, No Room Required, 13:25-17:30 W, Weaver-Densford Hall 4-142, In Person Term Based; 2 cr.  
28802 003 LAB, 13:25-16:25 F, No Room Required, 08:00-12:05 Th, Weaver-Densford Hall 4-142, In Person Term Based; 2 cr.  
28869 004 LAB, 13:25-16:25 F, No Room Required, 13:25-17:30 Th, Weaver-Densford Hall 4-142, In Person Term Based; 2 cr.

29010 006 LAB, 08:00-12:05 T, University Square Nurs Lab 392, In Person Term Based; Erica Timko Olson, Sharon McGill ; 2 cr.

31610 007 LAB, 08:00-12:05 Th, University Square Nurs Lab 392, In Person Term Based; Erica Timko Olson, Sharon McGill ; 2 cr.

**3710 Statistics for Clinical Practice and Research**

(Student Option; Prereq: [High school algebra or instr consent], students enrolled in School of Nursing must take A/F optionMATH)  
28829 001 LEC, 12:20-14:15 F, Mayo Bldg & Additions Auditori, 12:20-14:15 F, Moos Health Sci Tower 1-450, 12:20-14:15 F, Mayo Bldg & Additions Auditori, 12:20-14:15 F, Moos Health Sci Tower 5-125, 12:20-14:15 F, Mayo Bldg & Additions Auditori, 12:20-14:15 F, Moos Health Sci Tower 1-450, 12:20-14:15 F, Jackson Hall 2-137, 12:20-14:15 F, Jackson Hall 2-137, 12:20-14:15 F, Moos Health Sci Tower 1-450, 12:20-14:15 F, Jackson Hall 2-137, 12:20-14:15 F, Moos Health Sci Tower 1-450, 12:20-14:15 F, Moos Health Sci Tower 1-450, In Person Term Based; Lisiane Pruinelli ; 3 cr.  
28830 002 LEC, 12:20-14:15 F, University Square ITV Room 322, In Person Term Based; Lisiane Pruinelli, Kasey Boehmer ; 3 cr.

**3801 Patient Centered Care of Adults and Older Adults I**

(A-F only; Prereq: Admitted to Nurs BSN program)  
28798 001 LEC, 13:25-16:25 Th, Moos Health Sci Tower 5-125, 13:25-16:25 Th, Weaver-Densford Hall 4-130, 13:25-16:25 Th, Moos Health Sci Tower 5-125, 13:25-16:25 Th, Weaver-Densford Hall 4-130, 13:25-16:25 Th, Moos Health Sci Tower 5-125, In Person Term Based; Raney Linck, Dawn Fredrich ; 3 cr.  
28880 002 LEC, 13:25-16:25 Th, University Square ITV Room 397, In Person Term Based; Raney Linck, Dawn Fredrich ; 3 cr.

**3802 Patient Centered Care: Nursing Care of Families I**

(A-F only; Prereq: Enrolled in School of Nursing)  
28799 001 LEC, 09:05-12:05 Th, Mayo Bldg & Additions 3-100, In Person Term Based; Samantha Sommerness, Barbara Beacham ; 3 cr.

**3806 Nurse as Professional**

(A-F or Audit; Prereq: Admitted to nursing BSN program)  
28800 001 LEC, 13:25-15:20 T, Weaver-Densford Hall 4-130, In Person Term Based; Barbara Champlin ; 2 cr.  
28803 002 LEC, 12:20-14:15 W, Moos Health Sci Tower 2-520, In Person Term Based; Laura Kirk ; 2 cr.  
28956 003 LEC, 14:30-16:25 W, Moos Health Sci Tower 3-110, In Person Term Based; Jung Lyun Kim ; 2 cr.  
29012 005 LEC, 10:10-12:05 W, University Square ITV Room 397, In Person Term Based; Sharon McGill ; 2 cr.

**3999 Clinical Internship**

(S-N or Audit; Prereq: Completed jr yr of baccalaureate nursing program, accepted into approved clinical internship program)  
35461 001 FWK, In Person Term Based; Elaine Darst ; 1 cr.

**4104 Ethical Sensitivity and Reasoning in Health Care**

(A-F only; CIV)  
28760 001 LEC, 10:10-12:05 Th, Mayo Bldg & Additions Auditori, 10:10-12:05 Th, Moos Health Sci Tower 2-620, 10:10-12:05 Th, Mayo Bldg & Additions Auditori, 10:10-12:05 Th, Mayo Bldg & Additions Auditori, In Person Term Based; Martha Turner, Eileen Weber ; 2 cr.  
28766 002 LEC, 10:10-12:05 Th, University Square ITV Room 397, In Person Term Based; Eileen Weber ; 2 cr.

**4106 Nurse as Collaborator**

(A-F only; Prereq: Enrolled in nursing program)  
28867 001 LEC, 13:25-15:20 Th, Mayo Bldg & Additions 3-100, Primarily Online; Stephanie Delkoski ; 1 cr.  
28868 002 LEC, 13:25-15:20 Th, Mayo Bldg & Additions 3-100, Primarily Online; Stephanie Delkoski ; 1 cr.  
31634 003 LEC, 13:25-15:20 Th, Mayo Bldg & Additions 3-125, In Person Term Based; Linnea Benike ; 1 cr.  
31635 005 LEC, 13:25-15:20 Th, University Square ITV Room 322, In Person Term Based; Linnea Benike ; 1 cr.

**4301 Person Centered Care of Adults and Older Adults II**

(A-F only; Prereq: 3801, 3802, 3703, 3705, enrolled in School of Nursing)  
28815 001 LEC, 08:00-12:05 F, Moos Health Sci Tower 5-125, In Person Term Based; Mary Steffes, Barbara Champlin ; 4 cr.

28819 002 LEC, 08:00-12:05 F, University Square ITV Room 322, In Person Term Based; Mary Steffes, Sharon McGill, Barbara Champlin ; 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)  
28817 001 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Mary Steffes ; 3 cr.  
28820 002 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Mary Steffes ; 3 cr.  
28821 003 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Penny Kessler, Raney Linck ; 3 cr.  
28822 004 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Raney Linck, Penny Kessler ; 3 cr.  
28823 005 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Barbara Champlin ; 3 cr.  
28968 010 FWK, 07:00-15:30 W, No Room Required, 14:00-21:00 W, No Room Required, In Person Term Based; 3 cr.  
29013 007 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Dawn Fredrich ; 3 cr.  
29014 008 FWK, 07:00-15:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Dawn Fredrich ; 3 cr.  
29015 009 FWK, 14:00-21:00 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; 3 cr.  
33919 006 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Barbara Champlin ; 3 cr.  
33920 012 FWK, 07:00-15:30 T, No Room Required, 12:30-20:00 T, No Room Required, In Person Term Based; Michele Baier, Stephanie Sulla ; 3 cr.  
33921 013 FWK, 12:30-20:00 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Stephanie Sulla, Michele Baier ; 3 cr.  
33922 014 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Abbie Fordahl, Kelly Brevik ; 3 cr.  
33923 015 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Kelly Brevik, Abbie Fordahl ; 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)  
28818 001 FWK, 07:00-15:30 T, No Room Required, 08:00-16:30 T, No Room Required, In Person Term Based; Jeanne Pfeiffer ; 3 cr.  
28824 002 FWK, 08:00-16:30 T, No Room Required, 14:00-21:00 T, No Room Required, In Person Term Based; Jeanne Pfeiffer ; 3 cr.  
28825 003 FWK, 07:00-15:30 T, No Room Required, 08:00-16:30 T, No Room Required, In Person Term Based; Eunice Areba ; 3 cr.  
28826 004 FWK, 08:00-16:30 T, No Room Required, 07:00-15:30 T, No Room Required, In Person Term Based; Eunice Areba ; 3 cr.  
28827 005 FWK, 07:00-15:30 W, No Room Required, 08:00-16:30 W, No Room Required, In Person Term Based; Cheryl Robertson ; 3 cr.  
28828 006 FWK, 08:00-16:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Dawn Fredrich ; 3 cr.  
28957 008 FWK, 08:00-16:30 W, No Room Required, 14:00-21:00 W, No Room Required, In Person Term Based; Cheryl Robertson ; 3 cr.  
33926 007 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; Dawn Fredrich ; 3 cr.  
33927 009 FWK, 14:00-21:00 W, No Room Required, 07:00-15:30 W, No Room Required, In Person Term Based; 3 cr.  
33928 010 FWK, 07:00-15:30 W, No Room Required, 07:00-15:30 W, 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)  
28816 001 LEC, 08:00-12:05 F, Moos Health Sci Tower 2-520, In Person Term Based; Samantha Sommerness, Barbara Beacham ; 4 cr.

**4321 Public Health Nursing**



**5505 Assessment and Support of Women in Labor**

(S-N only; Prereq: Admission to DNP Program)  
28999 001 FWK, In Person Term Based; Ann Forster Page, CNM ; 2 cr.

**5800 Nursing Topics**

(Student Option; Prereq: instr consent)  
35293 001 IND, In Person Term Based; Barbara Peterson ; 1-4 cr.

**Nutrition (NUTR)****5624 Nutrition and Genetics**

(Student Option; Prereq: Biochemistry)  
22362 001 LEC, 09:30-10:20 WF, Ruttan Hall B42, In Person Term Based; Moon-Suhn Ryu ; 2 cr.

**5625 Nutritional Biochemistry**

(Student Option; Prereq: BIOC 3021 or instr consent)  
21948 001 LEC, 16:00-17:15 TTh, McNeal Hall 10, In Person Term Based; Meets With: 001 ANSC 5625; Chi Chen ; 3 cr.

**Occupational Therapy (OT)****1003 Introduction to Occupational Therapy**

(A-F only; )  
14052 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Cindy Jacobs ; 1 cr.

**5395 Independent Study in Occupational Therapy**

(Student Option; Prereq: Enrolled OT student or instr consent)  
13877 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

**Off-Campus Study (OCS)****Office of Undergrad Education (OUE)****1086 The First Year Experience: Fall**

(A-F only; Prereq: 1st-yr student athletes)  
30049 001 LEC, 19:00-20:15 M, Bierman Field Athl Bldg 620, In Person Term Based; Kelly Collins ; 2 cr.  
30050 002 DIS, 08:15-09:30 T, Bierman Field Athl Bldg 620, In Person Term Based; Kelly Collins ; 2 cr.  
30051 003 DIS, 09:45-11:00 T, Bierman Field Athl Bldg 620, In Person Term Based; Kelly Collins ; 2 cr.  
30052 004 DIS, 09:45-11:00 Th, Bierman Field Athl Bldg 620, In Person Term Based; Kelly Collins ; 2 cr.  
30054 006 DIS, 19:00-20:15 W, Bierman Field Athl Bldg 620, In Person Term Based; Kelly Collins ; 2 cr.

**2001 Academic Planning and Exploration**

(A-F only; )  
30047 005 IND, 15:35-16:25 T, Bruininks Hall 518, Partially Online; Aya Maruyama ; 1 cr.  
30048 001 IND, 15:35-17:30 W, Bruininks Hall 518, 15:35-17:30 W, Bruininks Hall 518, Primarily Online; Chad Ellsworth ; 1 cr.  
30060 006 IND, 15:35-17:30 W, Bruininks Hall 518, 15:35-17:30 W, Bruininks Hall 518, Primarily Online; Hannah Boldt ; 1 cr.  
30090 003 IND, 10:10-12:05 F, Bruininks Hall 518, 10:10-12:05 F, Bruininks Hall 518, Primarily Online; Susan LeBlanc ; 1 cr.  
30091 004 IND, 12:20-14:15 F, Bruininks Hall 518, Primarily Online; Lucy Reile ; 1 cr.  
30094 008 IND, 10:10-12:05 F, Bruininks Hall 518, 10:10-12:05 F, Bruininks Hall 518, Partially Online; Wendy Nicholson-Kotas ; 1 cr.  
33406 009 IND, 12:20-14:15 F, Bruininks Hall 518, 12:20-14:15 F, Bruininks Hall 518, Primarily Online; Lisa Clark ; 1 cr.

**3050 Introduction to Peer Education**

(Student Option; )  
34920 001 LEC, 14:30-15:20 Th, Lind Hall 216, In Person Term Based; Brett Gray ; 1 cr.

**Ojibwe (OJIB)****1101 Beginning Ojibwe I**

(Student Option; )  
18507 001 LEC, 13:25-14:15 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 OJIB 4101; Zoe Brown ; 5 cr.  
34015 301 LEC, 13:25-14:15 MTWThF, ONLINE, Completely Online; Zoe Brown ; 5 cr.

**3103 Intermediate Ojibwe I**

(Student Option; Prereq: 1101, 1102)  
18508 001 LEC, 14:30-15:20 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 OJIB 4103; Zoe Brown ; 5 cr.  
34017 301 LEC, 14:30-15:20 MTWThF, ONLINE, Completely Online; Zoe Brown ; 5 cr.

**4101 Beginning Ojibwe I**

(Student Option; Prereq: community member, see department for permission to enroll.)  
20350 001 LEC, 13:25-14:15 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 OJIB 1101; Zoe Brown ; 3 cr.  
35409 301 LEC, Completely Online; Zoe Brown ; 3 cr.

**4103 Intermediate Ojibwe I**

(Student Option; Prereq: 1101, 3103, community member, see department for permission to enroll.)  
20351 001 LEC, 14:30-15:20 MTWThF, Peik Hall 165, In Person Term Based; Meets With: 001 OJIB 3103; Zoe Brown ; 3 cr.

**5106 Advanced Ojibwe Language I**

(A-F or Audit; )  
18471 001 LEC, 14:30-15:20 MWF, Scott Hall 2, In Person Term Based; Brendan Fairbanks ; 3 cr.

**5202 Ojibwe Mastery I**

(A-F or Audit; )  
20025 001 LEC, 15:35-16:25 MWF, Scott Hall 2, In Person Term Based; Brendan Fairbanks ; 3 cr.

**5250 Ojibwe Master Class**

(A-F or Audit; )  
34063 001 DIS, 13:25-14:15 MWF, Scott Hall 2, In Person Term Based; Brendan Fairbanks ; 3 cr.

**Ophthalmology (OPH)****5601 Orthoptics II**

(S-N only; Prereq: Enrollment in Orthoptics Certificate program)  
28076 001 FWK, In Person Term Based; 5 cr.

**Oral Biology (OBIO)****5001 Methods in Research and Writing**

(Student Option; )  
22963 001 LEC, 15:30-17:00 Th, AHC ROOM TBA, In Person Term Based; Joel Rudney ; 2 cr.

**5030 Virology Research Presentations**

(S-N only; )  
23146 001 DIS, 12:15-13:05 W, AHC ROOM TBA, 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.)  
22975 001 FWK, 00:00-00:00 , , In Person Term Based; Robert Nadeau ; 0-6 cr.

**5276 Medicine Rotation for the Oral and Maxillofacial Surgeon**

(S-N only; Prereq: Participation in oral and maxillofacial surgery training program.)  
22974 001 FWK, 06:30-07:30 TWThFSa, No Room Required, In Person Term Based; Robert Nadeau ; 0-6 cr.

**Org Leadership, Policy & Dev (OLPD)****1302 Personal Leadership in the University**

(A-F only; )  
15250 001 LEC, 09:45-11:00 TTh, Wulling Hall 240, In Person Term Based; Carmine Perrotti ; 3 cr.  
16637 002 LEC, 11:15-12:30 TTh, Wulling Hall 240, In Person Term Based; Ian Slattery ; 3 cr.

**1461 Presentations in Work Settings: Business & Marketing Education and Human Resource Development**

(A-F or Audit; CIV)  
16492 001 LEC, 09:45-11:00 MW, Wulling Hall 220, In Person Term Based; Heather Dorsey ; 3 cr.  
16493 002 LEC, 14:30-15:45 MW, Wulling Hall 220, In Person Term Based; Heather Dorsey ; 3 cr.

**2811 Societies of the Future: Changing Work Contexts**

(A-F or Audit; TS)  
15261 001 DIS, 09:45-11:00 MW, Bruininks Hall 432, In Person Term Based; Meg Fitzgerald-Sisk ; 3 cr.  
15262 002 DIS, 09:45-11:00 TTh, Keller Hall 2-260, In Person Term Based; Michael Stebleton ; 3 cr.  
16455 003 DIS, 16:40-19:20 T, Molecular Cellular Biol 2-122, In Person Term Based; Anne Barnes ; 3 cr.

**2811H Societies of the Future: Changing Work Contexts, Honors**

(A-F only; Prereq: Honors studentTS)  
33957 001 DIS, 09:45-11:00 MW, Bruininks Hall 432, In Person Term Based; Meg Fitzgerald-Sisk ; 3 cr.

**3202 Introduction to Strategies for Teaching Adults**

(A-F or Audit; )  
15217 001 LEC, Completely Online; Daniel Woldeab ; 3 cr.  
15218 002 LEC, 09:45-11:00 TTh, Appleby Hall 103, Partially Online; Rosemarie Park ; 3 cr.

**3308 Data-Driven Decision-Making in BME and HRD**

(A-F only; )  
32689 002 LEC, 11:15-12:30 TTh, Appleby Hall 128, In Person Term Based; Minjung Kim ; 3 cr.  
33417 001 LEC, 11:15-12:30 MW, Appleby Hall 128, In Person Term Based; Minjung Kim ; 3 cr.

**3318 Introduction to Project Management**

(Student Option; )  
15251 001 LEC, 13:00-14:15 MW, Bruininks Hall 530A, In Person Term Based; Daniel Greenberg ; 3 cr.  
16115 002 LEC, 14:30-15:45 MW, Bruininks Hall 131A, In Person Term Based; Meg Fitzgerald-Sisk ; 3 cr.  
16347 003 LEC, 09:45-11:00 TTh, Bruininks Hall 530A, In Person Term Based; Meg Fitzgerald-Sisk ; 3 cr.

**3324W Writing in the Workplace for Education and Human Development Majors**

(Student Option; Prereq: 60+ undergraduate credits, declared majorW)  
16458 001 DIS, 09:05-11:00 MW, Bruininks Hal 121, In Person Term Based; Barbara Hodne ; 4 cr.  
16459 002 DIS, 14:30-16:25 TTh, Appleby Hall 223, In Person Term Based; Barbara Hodne ; 4 cr.

**3380 Developing Intercultural Competence**

(A-F or Audit; )  
16089 001 DIS, 09:45-11:00 MW, Bruininks Hall 131B, In Person Term Based; Ting Huang ; 3 cr.

**3401 Teaching Marketing Promotion**

(A-F or Audit; )  
15219 002 LEC, 16:40-19:20 W, Appleby Hall 11, In Person Term Based; Jonathan Stuart ; 3 cr.  
16114 003 LEC, 13:00-14:15 TTh, Appleby Hall 303, In Person Term Based; Jonathan Stuart ; 3 cr.  
16737 004 LEC, 11:15-12:30 TTh, Appleby Hall 103, In Person Term Based; Jonathan Stuart ; 3 cr.

**3424 Sales Training**

(A-F or Audit; )  
15220 001 LEC, 11:15-12:30 MW, Bruininks Hall 530A, In Person Term Based; Ginny Jacobs ; 3 cr.  
15221 002 LEC, 16:40-19:20 M, Carlson School of Mgmt 1-149, In Person Term Based; Wayne Mueller ; 3 cr.  
16046 003 LEC, 14:30-15:45 TTh, Bruininks Hall 131B, In Person Term Based; Minjung Kim ; 3 cr.

**3493 Directed Study in Business & Marketing Education**

(Student Option; Prereq: BME major, instr consent)  
34545 001 IND, Independent/Directed Study; 1-4 cr.

### 3496 Profession and Practice of Business and Marketing Education

(A-F or Audit; Prereq: Undergrad student, BME major, OLPD 3318, OLPD 3401, OLPD 3424, and OLPD 4426 completed or in progress.)  
16117 001 LEC, 11:15-13:10 W, Scott Hall 4, In Person Term Based; Kimberlie Mook ; 2 cr.  
16348 002 LEC, 09:05-11:00 F, Burton Hall 125, In Person Term Based; Laura Seithers ; 2 cr.

### 3601 Introduction to Human Resource Development

(A-F or Audit; )  
15255 001 LEC, 13:00-14:15 TTh, Rapson Hall 56, In Person Term Based; Louis Quast ; 3 cr.

### 3620 Introduction to Training and Development

(A-F or Audit; )  
15256 001 LEC, 14:30-15:45 MW, Peik Hall 375, In Person Term Based; Louis Quast ; 3 cr.  
15258 002 LEC, 11:15-12:30 MW, Appleby Hall 204, In Person Term Based; Pimsiri Aroonsri ; 3 cr.

### 3640 Introduction to Organization Development

(A-F or Audit; )  
15257 001 LEC, 13:00-14:15 TTh, Bruininks Hall 330, In Person Term Based; David Christesen ; 3 cr.

### 3696 Profession and Practice of Human Resource Development

(A-F or Audit; Prereq: Undergrad student, HRD major, 3 of following 4 courses need to be completed or in progress: 3202, 3601, 3620, 3640)  
16736 002 LEC, 13:25-15:20 W, Elliott Hall N119, In Person Term Based; Kayla Lyftogt ; 2 cr.

### 3828 Diversity in the Workplace

(A-F or Audit; )  
16456 001 DIS, 16:40-19:20 Th, Bruininks Hall 530B, In Person Term Based; Joshua Collins ; 3 cr.  
33183 002 DIS, 09:45-11:00 MW, Wulling Hall 240, In Person Term Based; Stephanie Sisco ; 3 cr.

### 4401 E-Marketing

(A-F or Audit; )  
16538 001 LEC, 16:40-19:20 Th, Bruininks Hall 114, In Person Term Based; Walter Novillo ; 3 cr.

### 4420 Practicum in Nonprofit Organizations

(A-F or Audit; )  
16645 001 LEC, 14:30-16:30 Th, Bruininks Hall 420A, In Person Term Based; Walter Novillo ; 2 cr.

### 4426 Strategic Customer Relationship Management

(A-F or Audit; )  
15222 001 LEC, 13:00-14:15 TTh, Bruininks Hall 512B, In Person Term Based; Walter Novillo ; 3 cr.  
15223 002 LEC, 16:00-17:15 MW, Wulling Hall 240, In Person Term Based; Ki Bum Noh ; 3 cr.  
16116 003 LEC, Completely Online; Nicole Shopbell ; 3 cr.

### 4496 Applied Experience in Business & Marketing Education

(S-N only; Prereq: BME major, ugrd, [3496 or concurrent registration is required (or allowed) in 3496])  
15224 001 FWK, Independent/Directed Study; Kimberlie Mook ; 1-4 cr.

### 4696 Internship: Human Resource Development

(S-N only; )  
15259 001 FWK, Independent/Directed Study; Alexandra Klapperich ; 1-4 cr.

### 5005 School and Society

(A-F or Audit; Prereq: Jr or sr or MEd/initial licensure student or CLA music ed major or preteaching major or instr consent)  
16259 001 LEC, 08:30-10:40 M, Appleby Hall 219, In Person Term Based; Ann Jenkin ; 2 cr.

### 5009 Human Relations: Applied Skills for School and Society

(A-F or Audit; Prereq: MEd/init lic or CLA music ed or preteaching or instr consent)

15291 001 LEC, 16:40-19:20 Th, Burton Hall 120, In Person Term Based; Abdullahi Bashir ; 1 cr.

### 5048 Cross-Cultural Perspectives on Leadership

(Student Option; )  
15241 001 LEC, 16:40-19:20 T, Bruininks Hall 512B, In Person Term Based; Gerald Fry ; 3 cr.

### 5056 Case Studies for Policy Research

(A-F or Audit; )  
15244 001 LEC, 16:40-19:20 M, Peik Hall 375, In Person Term Based; Peter Demerath ; 3 cr.

### 5080 Special Topics: Organizational Leadership, Policy, & Development

(Student Option; )  
32766 001 LEC, 16:40-19:20 T, Bruininks Hall 144, In Person Term Based; Joshua Collins ; 1-3 cr.

### 5087 MA Research Seminar

(S-N only; )  
32995 001 LEC, 16:40-19:20 T, Appleby Hall 204, In Person Term Based; Gary Peter ; 3 cr.

### 5095 Problems: Organizational Leadership, Policy, and Development

(Student Option; )  
15247 001 IND, Independent/Directed Study; 1-3 cr.  
16791 061 IND, In Person Term Based; Kenneth Bartlett ; 1-3 cr.

### 5096 Internship: Organizational Leadership, Policy, and Development

(Student Option; )  
15233 001 FWK, Independent/Directed Study; 1-9 cr.

### 5103 Comparative Education

(Student Option; )  
16579 001 LEC, 09:45-12:25 Th, Room TBA, In Person Term Based; Frances Vavrus ; 3 cr.

### 5104 Strategies for International Development of Education Systems

(A-F or Audit; Prereq: Grad student)  
32761 001 LEC, 16:40-19:20 M, Appleby Hall 226, In Person Term Based; Christopher Johnstone ; 3 cr.

### 5107 Gender, Education, and International Development

(A-F or Audit; )  
16653 001 LEC, 16:40-19:20 W, Ford Hall 170, In Person Term Based; Joan DeJaeghere ; 3 cr.

### 5132 Intercultural Education and Training: Theory and Application

(Student Option; )  
16034 001 LEC, 16:40-19:20 W, Peik Hall 375, In Person Term Based; Gerald Fry ; 3 cr.

### 5201 Strategies for Teaching Adults

(A-F or Audit; Prereq: Grad student only)  
15214 001 LEC, 16:40-19:20 M, Appleby Hall 3, In Person Term Based; Rosemarie Park ; 3 cr.

### 5296 Field Experience in Adult Education

(S-N or Audit; )  
15216 001 FWK, Independent/Directed Study; Rosemarie Park, Catherine Twohig ; 1-6 cr.

### 5321 The Principal as Leader of High-Performing Schools

(Student Option; )  
16113 001 LEC, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, 16:45-20:55 M, Wulling Hall 220, In Person Term Based; Doug Revsbeck ; 3 cr.

### 5344 School Law

(Student Option; Prereqs: OLPD 5385 Licensure Seminar: Program Policies and Inclusionary Leadership or concurrent registration and OLPD 5386 Leadership Portfolio or concurrent registration.)  
15246 001 LEC, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Koltzoff Hall 134, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A,

16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, 16:40-19:35 W, Bruininks Hall 420A, In Person Term Based; Karen Miksch ; 3 cr.

### 5346 Politics of Education

(A-F or Audit; Prereq: postbac, MEd, or grad student)  
16359 001 LEC, 16:40-19:20 T, Wulling Hall 220, In Person Term Based; Nicola Alexander ; 3 cr.

### 5361 Project in Teacher Leadership

(Student Option No Audit; Prereqs: Grad students working on K-12 Administrative Licensure and/or Master in Education (Leadership in Education))  
34563 001 IND, Independent/Directed Study; Gary Prest, Katie Pekel ; 3 cr.

### 5364 Context and Practice of Educational Leadership

(A-F or Audit; )  
16520 001 LEC, 16:40-19:20 W, Bruininks Hall 121, In Person Term Based; Peter Demerath ; 3 cr.

### 5374 Leadership for Professional Development

(Student Option; Prereq: Postbaccalaureate, at least 3 yrs teaching experience)  
15245 001 LEC, 16:40-21:05 W, Folwell Hall 32, 08:30-15:30 Sa, Folwell Hall 30, 16:40-21:05 W, Folwell Hall 32, 16:40-21:05 W, Folwell Hall 32, 08:30-15:30 Sa, Folwell Hall 30, 08:30-15:30 Sa, Folwell Hall 30, 16:40-21:05 W, Folwell Hall 32, 08:30-15:30 Sa, Folwell Hall 30, 16:40-19:20 W, Folwell Hall 32, In Person Term Based; Chad Schmidt, Rebecca Allen ; 4 cr.

### 5385 Licensure Seminar: Program Policies and Inclusionary Leadership

(S-N or Audit; )  
15239 001 LEC, 16:45-20:55 T, Koltzoff Hall 134, 16:45-20:55 T, Koltzoff Hall 134, 16:45-20:55 T, Koltzoff Hall 134, In Person Term Based; Nancy Rajanen ; 1 cr.

### 5386 Leadership Portfolio Seminar

(S-N or Audit; Prereq: 5385 or concurrent registration is required (or allowed) in 5385 or EDPA 5385)  
15240 001 LEC, 16:45-20:55 T, Bruininks Hall 119, 16:45-20:55 T, Bruininks Hall 119, 16:45-20:55 T, Bruininks Hall 119, Partially Online; Nancy Rajanen ; 1 cr.

### 5391 Special Education Law for Leaders

(Student Option; Prereq: Designed for students working on licensure in PK-12 administration)  
15243 001 LEC, 17:00-20:10 W, Appleby Hall 204, 17:00-20:10 W, Appleby Hall 204, 17:00-20:10 W, Appleby Hall 204, In Person Term Based; Christine Sonnenblum ; 1 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.)  
15230 001 FWK, 16:45-20:55 Th, Peik Hall 315, 16:45-20:55 Th, Peik Hall 315, 16:45-20:55 Th, Peik Hall 315, 16:45-20:55 Th, Peik Hall 315, In Person Term Based; Nancy Rajanen ; 3 cr.

16379 002 FWK, Independent/Directed Study; Gary Prest ; 3 cr.

### 5501 Principles and Methods of Evaluation

(Student Option; )  
15227 001 LEC, 16:40-19:20 W, Burton Hall 120, In Person Term Based; Meets With: 001 EPSY 5243; John LaVelle ; 3 cr.  
16386 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Meets With: 002 EPSY 5243; Stuart Yeh ; 3 cr.

### 5502 Theory and Models of Evaluation

(Student Option; Prereq: [5501/EPsy 5243] or PA 5311 or PubH 6034 or another introductory evaluation course approved by instructor.)  
16092 001 LEC, 16:40-19:20 M, Appleby Hall 11, In Person Term Based; John LaVelle ; 3 cr.

### 5521 Cost and Economic Analysis in Educational Evaluation

(Student Option; )  
15229 001 LEC, 16:40-19:20 M, Appleby Hall 204, Partially Online; Stuart Yeh ; 3 cr.

**5605 Strategic Planning through Human Resources**

(A-F or Audit; Prereq: 5607 or 5615 or HRD 5201 or HRD 5301)  
16521 001 LEC, 16:40-19:20 T, Appleby Hall 102, In Person Term Based; Alexandre Ardichvili ; 3 cr.

**5607 Organization Development**

(A-F or Audit; Prereq: Grad student only)  
16541 002 LEC, Completely Online; Louis Quast ; 3 cr.

**5611 Facilitation and Meeting Skills**

(Student Option; )  
16403 001 DIS, 08:00-15:00 Sa, Folwell Hall 31, 08:00-15:00 Sa, Folwell Hall 31, In Person Term Based; Lisa Wocken ; 1 cr.

**5615 Training and Development of Human Resources**

(A-F or Audit; Prereq: Grad student only)  
16322 001 LEC, 16:40-19:20 Th, Folwell Hall 6, In Person Term Based; David Christesen ; 3 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)  
15254 001 FWK, Independent/Directed Study; David Christesen ; 1-10 cr.

**5701 U.S. Higher Education**

(Student Option; )  
15226 001 LEC, 16:40-19:20 T, Bruininks Hall 530B, In Person Term Based; Karen Miksch ; 3 cr.

**5712 Multicultural Theories of College Student Development Applied to Teaching and Learning**

(A-F only; )  
16460 001 LEC, 16:40-19:20 M, Appleby Hall 102, In Person Term Based; Tania Mitchell ; 3 cr.

**5736 Public Engagement and Higher Education**

(A-F only; )  
32765 001 DIS, 16:40-19:20 W, Lind Hall 229, In Person Term Based; Andrew Furco ; 3 cr.

**5801 Survey: Human Resource Development and Adult Education**

(Student Option; Prereq: Grad student only)  
16047 001 LEC, 17:00-19:40 W, McNeal Hall 310, In Person Term Based; Catherine Twohig ; 3 cr.

**5893 Directed Study in OLPD**

(Student Option; )  
35474 001 IND, Independent/Directed Study; Catherine Twohig ; 1-4 cr.

**Otolaryngology (OTOL)****5993 Directed Studies**

(Student Option; Prereq: instr consent)  
27627 001 IND, 00:00-00:00 , , In Person Term Based; 1-12 cr.

**Pharmacology (PHCL)****2001 Basic Principles of Pharmacology: A Drug's Fantastic Voyage**

(A-F only; Prereq: First-year chemistry)  
28035 001 LEC, 13:25-14:15 MW, Keller Hall 3-115, In Person Term Based; Gregory Connell ; 2 cr.

**4001 Mechanisms of Drug Action**

(A-F or Audit; Prereq: Upper div or instr consent; [prev or concurrent] courses in [biology, biochemistry] recommended)  
27859 001 LEC, 09:05-09:55 TTh, Appleby Hall 319, In Person Term Based; Gregory Connell ; 2 cr.

**4010 Current Research Topics in Pharmacology**

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

27996 001 DIS, 12:20-14:15 F, Moos Health Sci Tower 2-580, In Person Term Based; Hiroshi Hiasa ; 2 cr.

**4020 Chemotherapy: from current anticancer drugs to future cancer therapeutics**

(A-F only; Prereq: College-level biology: PHCL 2001 and/or PHCL3100, GCD4151 recommended.)  
28077 001 LEC, 14:30-16:25 W, Mayo Bldg & Additions 3-100, 14:30-15:20 M, Mayo Bldg & Additions 3-100, In Person Term Based; Hiroshi Hiasa, Cheuk Leung ; 3 cr.

**4343 Pharmacology of the Synapse**

(A-F only; )  
28143 001 LEC, 16:40-17:30 M, Bruininks Hall 432, In Person Term Based; Anna Lee ; 3 cr.

**4993 Directed Studies**

(S-N only; Prereq: instr consent, dept consent)  
28000 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)  
28001 001 IND, 00:00-00:00 , , Independent/Directed Study; Hiroshi Hiasa ; 1-3 cr.

**5109 Problems in Pharmacology**

(Student Option; Prereq: Upper div or grad student or instr consent Keywords: Pharmacology, Directed, Independent Study, Biomedical, Basic Science, Research, Drug)  
27666 001 IND, 00:00-00:00 , , In Person Term Based; Colin Campbell ; 1-18 cr.

**5110 Introduction to Pharmacology**

(A-F or Audit; Prereq: Grad student or instr consent Keywords: Introduction, Pharmacology, Molecular, Drug, Pharmacokinetics, Pharmacodynamics, Protein, Neuropharmacology, Chemotherapy, Pharmacokinetics)  
27479 001 LEC, 15:30-17:30 W, Weaver-Densford Hall W2-110, 15:30-17:00 M, Weaver-Densford Hall W2-110, In Person Term Based; Colin Campbell, Timothy Walseth ; 3 cr.

**5112 A Graduate Toolkit I: An Introduction to the Scientific Research Lab**

(A-F only; Prereq: instr consent Keywords: Basic Science, Pharmacology, Personnel, Writing, Presentation, Protein, DNA, Molecule, Microscope, Bioinformatics, Drug)  
27998 001 LEC, 11:15-12:05 MW, Moos Health Sci Tower 2-118, In Person Term Based; Timothy Walseth, Nicholas Levinson ; 1 cr.

**5113 A Graduate Toolkit II: Scientific Speaking and Writing for Graduate Students**

(A-F only; Prereq: Completion of one yr of a grad program Keywords: Pharmacology, Basic Science, Writing, Presentation, Practice, Thesis, Dissertation)  
27999 001 DIS, 09:00-11:00 TTh, AHC ROOM TBA, In Person Term Based; Jill Siegfried, Tanya Freedman ; 2 cr.

**Pharmacy (PHAR)****1001 Orientation to Pharmacy**

(Student Option; )  
29063 001 IND, Completely Online; Kristyn Williamson ; 2 cr.

**1002 Medical Terminology**

(Student Option; )  
29064 001 IND, Completely Online; Jody Lounsbury ; 2 cr.

**1003 Non-Prescription Medications and Self-Care: Treating Minor Conditions**

(Student Option; )  
29065 001 IND, Completely Online; Anna Milone ; 2 cr.

**1004 Common Prescription Drugs and Diseases**

(Student Option; )  
29066 001 IND, Completely Online; Kristyn Williamson ; 2 cr.

**3206 Foundations of Health Literacy**

(Student Option; )  
29101 001 IND, Completely Online; Anna Milone, Jody Lounsbury ; 3 cr.

**3700 Fundamentals of Pharmacotherapy**

(A-F or Audit; Prereq: Medical terminology recommended)  
29067 001 IND, Completely Online; Kristyn Williamson ; 3 cr.

**3800 Pharmacotherapy for the Health Professions**

(A-F only; Prereq: Anatomy and physiology)  
29069 001 IND, Completely Online; Kristyn Williamson ; 3 cr.  
29070 002 IND, Completely Online; Kristyn Williamson ; 3 cr.

**4200W Drugs and the U.S. Healthcare System**

(Student Option; CIV,WI)  
29076 001 IND, Completely Online; Anna Milone ; 3 cr.

**4294 Directed Study I for Undergraduates**

(Student Option; Prereq: Undergrad, instr consent)  
29071 001 IND, Independent/Directed Study; Reena Kartha ; 1-5 cr.

**5201 Applied Medical Terminology**

(Student Option; Prereq: Basic knowledge of human anatomy/physiology )  
29062 001 IND, Completely Online; Jody Lounsbury ; 2 cr.

**5204 Drugs and the US Healthcare System**

(Student Option; )  
29077 001 IND, Completely Online; Anna Milone ; 3 cr.

**5230 Principles of Clinical Pharmacology Research**

(A-F only; Prereq: 3rd Year Pharmacy Student or instr consent)  
29128 001 LEC, 10:10-12:05 M, Weaver-Densford Hall W7-193, 10:10-12:05 M, Weaver-Densford Hall W7-193, In Person Term Based; Meets With: 001 ECP 8230; Mark Kirstein, ; 2 cr.

**5700 Applied Fundamentals of Pharmacotherapy**

(A-F only; Prereq: Medical terminology recommended)  
29068 001 IND, Completely Online; Kristyn Williamson ; 3 cr.

**5800 Pharmacotherapy for the Health Professions**

(A-F only; Prereq: Anatomy and physiology)  
29073 001 IND, Completely Online; Kristyn Williamson ; 3 cr.

**Philosophy (PHIL)****1001 Introduction to Logic**

(Student Option; MATH)  
17012 001 LEC, 10:10-11:00 MWF, Anderson Hall 350, In Person Term Based; Joseph Owens ; 4 cr.  
17013 003 DIS, 11:15-12:05 T, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.  
17014 002 DIS, 10:10-11:00 T, Hubert H. Humphrey School 25, In Person Term Based; 4 cr.  
17015 004 DIS, 10:10-11:00 Th, Hubert H. Humphrey School 60, In Person Term Based; 4 cr.  
18177 005 DIS, 11:15-12:05 Th, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.  
20438 010 LEC, 18:00-21:00 M, Blegen Hall 110, In Person Term Based; Christopher Small ; 4 cr.

**1002W Introduction to Philosophy**

(Student Option; AH,WI)  
19449 001 LEC, 13:25-14:15 MWF, Blegen Hall 155, In Person Term Based; 4 cr.  
19450 002 DIS, 13:25-14:15 Th, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
19451 003 DIS, 14:30-15:20 Th, Hubert H. Humphrey School 184, In Person Term Based; 4 cr.

**1003W Introduction to Ethics**

(Student Option; CIV,WI)  
19452 001 LEC, 11:15-12:30 MW, Blegen Hall 317, In Person Term Based; Valerie Tiberius ; 4 cr.  
19859 002 DIS, 10:10-11:00 F, Carlson School of Mgmt L-122, In Person Term Based; Grace Cebrero ; 4 cr.  
19860 003 DIS, 11:15-12:05 F, Carlson School of Mgmt 2-228, In Person Term Based; Rebecca Kosten ; 4 cr.  
19861 005 DIS, 11:15-12:05 F, Carlson School of Mgmt 1-136, In Person Term Based; Grace Cebrero ; 4 cr.

**1004W Introduction to Political Philosophy**

(Student Option; AH,WI,CIV)  
16974 001 LEC, 10:10-11:00 MWF, Anderson Hall 250, In Person Term Based; Sarah Holtman ; 4 cr.

16975 002 DIS, 09:05-09:55 T, Blegen Hall 205, In Person Term Based; 4 cr.  
 16976 003 DIS, 09:05-09:55 Th, Blegen Hall 205, In Person Term Based; 4 cr.  
 18513 004 DIS, 10:10-11:00 T, Blegen Hall 205, In Person Term Based; Tucker Marks ; 4 cr.  
 18979 005 DIS, 10:10-11:00 Th, Blegen Hall 205, In Person Term Based; 4 cr.

### 1006W Philosophy and Cultural Diversity (Student Option; AH,WI,DS)

20431 001 LEC, 11:15-12:05 MWF, Blegen Hall 5, In Person Term Based; Qiannan Li ; 4 cr.  
 20432 002 DIS, 11:15-12:05 T, Hubert H. Humphrey School 60, In Person Term Based; Christopher Nagel ; 4 cr.  
 20433 003 DIS, 12:20-13:10 T, Hubert H. Humphrey School 15, In Person Term Based; Christopher Nagel ; 4 cr.  
 20434 004 DIS, 11:15-12:05 Th, Hubert H. Humphrey School 60, In Person Term Based; Kylie Shahar ; 4 cr.  
 20435 005 DIS, 12:20-13:10 Th, Hubert H. Humphrey School 184, In Person Term Based; Kylie Shahar ; 4 cr.

### 1007 Introduction to Political Philosophy Practicum

(Student Option; Prereq: concurrent registration is required (or allowed) in 1004W)  
 18792 001 FWK, 00:00-00:00 , In Person Term Based; Sarah Holtman ; 1 cr.

### 1760 Selected Topics in Philosophy

(Student Option; )  
 33677 001 DIS, 13:00-14:15 TTh, Blegen Hall 135, In Person Term Based; Roy Cook ; 3 cr.

### 1911W Amadeus: In Search of Mozart (Student Option; WI)

33678 001 DIS, 13:25-15:55 F, Carlson School of Mgmt 2-228, In Person Term Based; Michael Kac ; 3 cr.

### 1914 Space and Time: from Aristotle to Einstein

(Student Option; )  
 33680 001 DIS, 11:15-12:30 TTh, Carlson School of Mgmt 1-136, In Person Term Based; Jos Uffink ; 3 cr.

### 3001W General History of Western Philosophy: Ancient Period (Student Option; AH,WI)

34210 001 LEC, 13:25-14:15 MWF, Blegen Hall 235, In Person Term Based; Tamara Fakhoury ; 4 cr.  
 34211 002 DIS, 12:20-13:10 T, Blegen Hall 435, In Person Term Based; Justin Ivory ; 4 cr.  
 34212 003 DIS, 13:25-14:15 T, Blegen Hall 430, In Person Term Based; Justin Ivory ; 4 cr.

### 3100 Value Theory Practicum

(Student Option; Prereq: [concurrent registration is required (or allowed) in 3301 or concurrent registration is required (or allowed) in 3302W or concurrent registration is required (or allowed) in 3304 or concurrent registration is required (or allowed) in 3307 or concurrent registration is required (or allowed) in 3308], instr consent)  
 35443 001 FWK, In Person Term Based; Max Dresow ; 1 cr.  
 35586 002 FWK, In Person Term Based; Sarah Holtman ; 1 cr.

### 3201 Free Will and Responsibility

(Student Option; )  
 34078 001 LEC, 13:00-14:15 MF, Blegen Hall 260, In Person Term Based; Peter Hanks ; 3 cr.

### 3231 Philosophy and Language

(Student Option; )  
 31805 001 DIS, 13:00-14:15 MF, Blegen Hall 125, In Person Term Based; Joseph Owens ; 4 cr.

### 3234 Knowledge and Society

(Student Option; )  
 34213 001 SEM, 11:15-12:30 TTh, Blegen Hall 140, In Person Term Based; Codi Stevens ; 4 cr.

### 3301 Environmental Ethics

(Student Option; ENV)  
 31802 001 DIS, 14:30-15:20 MWF, Blegen Hall 435, In Person Term Based; Max Dresow ; 4 cr.

### 3302W Moral Problems of Contemporary Society

(Student Option; CIV,WI)  
 20840 001 LEC, 12:20-13:10 MWF, Carlson School of Mgmt 1-123, In Person Term Based; Michelle Mason Bizri ; 4 cr.

20841 002 DIS, 12:20-13:10 Th, Hubert H. Humphrey School 15, In Person Term Based; 4 cr.  
 20842 003 DIS, 13:25-14:15 Th, Blegen Hall 110, In Person Term Based; 4 cr.

### 3305 Medical Ethics

(Student Option; )  
 18514 001 LEC, 09:05-09:55 MWF, Blegen Hall 150, In Person Term Based; Michael Calasso ; 4 cr.  
 20446 002 DIS, 09:05-09:55 T, Blegen Hall 220, In Person Term Based; 4 cr.  
 20447 003 DIS, 10:10-11:00 T, Blegen Hall 415, In Person Term Based; 4 cr.

### 3311W Introduction to Ethical Theory

(Student Option; WI)  
 21304 001 DIS, 09:20-11:00 MF, Hubert H. Humphrey School 15, In Person Term Based; Michelle Mason Bizri ; 4 cr.

### 3601W Scientific Thought

(Student Option; Prereq: One course in philosophy or natural scienceWI)  
 17796 001 LEC, 09:20-11:00 TTh, Blegen Hall 135, In Person Term Based; Samuel Fletcher ; 4 cr.

### 3993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent.)  
 17059 001 IND, 00:00-00:00 , In Person Term Based; 1-3 cr.

### 4105W Epistemology

(A-F or Audit; Prereq: 1001 or instr consentWI)  
 31803 001 LEC, 09:45-11:00 MF, Blegen Hall 260, In Person Term Based; Peter Hanks ; 3 cr.

### 4414 Political Philosophy

(Student Option; Prereq: 1004 or instr consent)  
 31804 001 LEC, 13:00-14:15 MW, Blegen Hall 240, In Person Term Based; Sarah Holtman ; 3 cr.

### 4993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent.)  
 17058 001 IND, 00:00-00:00 , In Person Term Based; 1-3 cr.

### 4995 Senior Project (Directed Studies)

(A-F only; Prereq: instr consent, dept consent)  
 18462 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.

### 4995H Honors Senior Project

(A-F only; Prereq: instr consent, dept consent)  
 18982 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.

### 5209 Mathematical Methods for Philosophy

(Student Option; Prereq: prior course in mathematics, logic, or mathematics-related discipline or or instr consent)  
 31806 001 LEC, 13:00-14:15 TTh, Walter W Heller Hall 731, In Person Term Based; Samuel Fletcher ; 4 cr.  
 31807 002 DIS, 11:15-12:05 M, Walter W Heller Hall 731, In Person Term Based; Samuel Fletcher ; 4 cr.

### 5606 Philosophy of Quantum Mechanics

(Student Option; )  
 31808 001 LEC, 14:30-15:45 TTh, Walter W Heller Hall 731, In Person Term Based; Jos Uffink ; 3 cr.

### 5760 Selected Topics in Philosophy

(Student Option; Prereq: 3xxx-5xxx course in phil or instr consent)  
 33082 001 DIS, 16:40-19:10 W, Folwell Hall 106, In Person Term Based; Meets With: 002 FREN 5350001 GER 5610; Matthias Roth ; 3 cr.

### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent, college consent)  
 17060 001 IND, 00:00-00:00 , In Person Term Based; 1-3 cr.

## Physical Education (PE)

### 1012 Beginning Running

(Student Option No Audit; )  
 33755 001 LAB, 08:00-08:50 MW, Cooke Hall Lobby, In Person Term Based; Jackson Groomwald ; 1 cr.  
 33756 002 LAB, 09:05-09:55 MW, Cooke Hall Lobby, In Person Term Based; Jackson Groomwald ; 1 cr.

33757 003 LAB, 08:00-08:50 TTh, Cooke Hall Lobby, In Person Term Based; Brooke Wagner ; 1 cr.

### 1014 Conditioning

(Student Option No Audit; )  
 15308 001 LAB, 08:00-08:50 MW, University Rec Center 451, In Person Term Based; Abigail Berry ; 1 cr.  
 15308 001 LAB, 08:00-08:50 MW, University Rec Center 451, In Person Term Based; Abigail Berry ; 1 cr.  
 15309 002 LAB, 09:05-09:55 MW, University Rec Center 451, In Person Term Based; Abigail Berry ; 1 cr.  
 15309 002 LAB, 09:05-09:55 MW, University Rec Center 451, In Person Term Based; Abigail Berry ; 1 cr.  
 15312 005 LAB, 08:00-08:50 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 15312 005 LAB, 08:00-08:50 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 15313 006 LAB, 09:05-09:55 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 15313 006 LAB, 09:05-09:55 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 16268 007 LAB, 10:10-11:00 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 16268 007 LAB, 10:10-11:00 TTh, University Rec Center 451, In Person Term Based; Daniel McDonough ; 1 cr.  
 34070 009 LAB, 10:10-11:50 F, University Rec Center 320, In Person Term Based; Olivia Wicker ; 1 cr.

### 1015 Weight Training

(Student Option No Audit; )  
 15314 001 LAB, 08:00-08:50 MW, University Rec Center 120, In Person Term Based; Daniel McDonough ; 1 cr.  
 15314 001 LAB, 08:00-08:50 MW, University Rec Center 120, In Person Term Based; Daniel McDonough ; 1 cr.  
 15315 002 LAB, 09:05-09:55 MW, University Rec Center 120, In Person Term Based; Daniel McDonough ; 1 cr.  
 15315 002 LAB, 09:05-09:55 MW, University Rec Center 120, In Person Term Based; Daniel McDonough ; 1 cr.  
 15316 003 LAB, 10:10-11:00 MW, University Rec Center 120, In Person Term Based; Daniel McDonough ; 1 cr.  
 15317 005 LAB, 09:05-09:55 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.  
 15317 005 LAB, 09:05-09:55 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.  
 15318 006 LAB, 10:10-11:00 TTh, University Rec Center 120, In Person Term Based; Charles Jedlicka ; 1 cr.  
 15318 006 LAB, 10:10-11:00 TTh, University Rec Center 120, In Person Term Based; Charles Jedlicka ; 1 cr.  
 15868 004 LAB, 08:00-08:50 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.  
 15868 004 LAB, 08:00-08:50 TTh, University Rec Center 120, In Person Term Based; Benjamin Kohler ; 1 cr.

### 1016 Posture and Individual Exercise

(Student Option No Audit; )  
 16375 001 LAB, 08:00-08:50 MW, Cooke Hall 308, In Person Term Based; Alexandra Eady ; 1 cr.  
 16552 002 LAB, 09:05-09:55 MW, Cooke Hall 308, In Person Term Based; Alexandra Eady ; 1 cr.

### 1029 Handball

(Student Option No Audit; )  
 16453 002 LAB, 16:35-18:15 Th, University Rec Center 145, In Person Term Based; Joseph Van Thomme ; 1 cr.

### 1031 Sabre Fencing

(Student Option No Audit; )  
 15331 001 LAB, 09:05-09:55 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.  
 15331 001 LAB, 09:05-09:55 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.

### 1033 Foil Fencing

(Student Option No Audit; )  
 15330 001 LAB, 10:10-11:00 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.  
 15330 001 LAB, 10:10-11:00 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.  
 16349 002 LAB, 11:15-12:05 TTh, Cooke Hall 308, In Person Term Based; J Sobalvarro ; 1 cr.

### 1034 Judo

(Student Option No Audit; )  
 15301 002 LAB, 10:40-11:30 TTh, St. Paul Gymnasium 130, In Person Term Based; Thomas Crone ; 1 cr.  
 15301 002 LAB, 10:40-11:30 TTh, St. Paul Gymnasium 130, In Person Term Based; Thomas Crone ; 1 cr.

### 1035 Karate

(Student Option No Audit; )  
 15302 001 LAB, 10:10-11:45 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.  
 15302 001 LAB, 10:10-11:45 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.

15302 001 LAB, 10:10-11:45 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.

### 1036 Racquetball

(Student Option No Audit; )

16350 008 LAB, 13:25-14:15 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman ; 1 cr.  
16350 008 LAB, 13:25-14:15 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman ; 1 cr.  
16487 009 LAB, 14:30-15:20 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman ; 1 cr.  
16487 009 LAB, 14:30-15:20 TTh, University Rec Center 145, In Person Term Based; Mitchell Hoffman ; 1 cr.

### 1037 Squash Racquets

(Student Option No Audit; )

15827 003 LAB, 11:15-12:05 MW, University Aquatic Center 45, In Person Term Based; John Stever ; 1 cr.  
15827 003 LAB, 11:15-12:05 MW, University Aquatic Center 45, In Person Term Based; John Stever ; 1 cr.  
16553 002 LAB, 10:10-11:00 MW, University Aquatic Center 45, In Person Term Based; John Stever ; 1 cr.  
16553 002 LAB, 10:10-11:00 MW, University Aquatic Center 45, In Person Term Based; John Stever ; 1 cr.

### 1038 Beginning Tennis

(Student Option No Audit; )

15323 001 LAB, 08:00-08:50 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15323 001 LAB, 08:00-08:50 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15324 002 LAB, 09:05-09:55 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15324 002 LAB, 09:05-09:55 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15325 003 LAB, 10:10-11:00 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15325 003 LAB, 10:10-11:00 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15326 004 LAB, 11:15-12:05 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15326 004 LAB, 11:15-12:05 MW, Ridder Arena/Baseline 106, In Person Term Based; Susan Allen ; 1 cr.  
15327 005 LAB, 08:00-08:50 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15327 005 LAB, 08:00-08:50 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15328 006 LAB, 09:05-09:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15328 006 LAB, 09:05-09:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15328 006 LAB, 09:05-09:55 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15869 008 LAB, 11:15-12:05 TTh, Ridder Arena/Baseline 106, In Person Term Based; Daniel Haertl ; 1 cr.  
15869 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; )

15303 001 LAB, 08:00-08:50 MW, University Rec Center 320, In Person Term Based; Mary Brandl ; 1 cr.  
15303 001 LAB, 08:00-08:50 MW, University Rec Center 320, In Person Term Based; Mary Brandl ; 1 cr.  
15422 002 LAB, 09:05-09:55 MW, University Rec Center 320, In Person Term Based; Mary Brandl ; 1 cr.  
15422 002 LAB, 09:05-09:55 MW, University Rec Center 320, In Person Term Based; Mary Brandl ; 1 cr.  
15515 003 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Kara Winter ; 1 cr.  
15515 003 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Kara Winter ; 1 cr.  
15515 003 LAB, 13:25-15:05 M, University Rec Center 320, In Person Term Based; Kara Winter ; 1 cr.  
15813 004 LAB, 09:05-09:55 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
15813 004 LAB, 09:05-09:55 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
15828 005 LAB, 10:10-11:00 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
15828 005 LAB, 10:10-11:00 TTh, University Rec Center 320, In Person Term Based; Trung Le ; 1 cr.  
16190 006 LAB, 18:45-20:30 W, St. Paul Gymnasium 130, In Person Term Based; Mary Brandl ; 1 cr.  
16190 006 LAB, 18:45-20:30 W, St. Paul Gymnasium 130, In Person Term Based; Mary Brandl ; 1 cr.  
16270 007 LAB, 13:25-15:15 F, Cooke Hall 308, In Person Term Based; Trung Le ; 1 cr.  
16270 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)

16677 001 LAB, 08:00-09:40 M, University Rec Center 68B, In Person Term Based; Taber Tang ; 1 cr.  
16678 002 LAB, 08:00-09:40 T, University Rec Center 68B, In Person Term Based; Taber Tang ; 1 cr.  
16679 003 LAB, 10:10-11:50 T, University Rec Center 68B, In Person Term Based; Taber Tang ; 1 cr.  
16680 004 LAB, 08:00-09:40 W, University Rec Center 68B, In Person Term Based; Benjamin Phaneuf ; 1 cr.  
33606 005 LAB, 10:10-11:50 W, University Rec Center 68B, In Person Term Based; Benjamin Phaneuf ; 1 cr.  
33607 006 LAB, 10:10-11:50 M, University Rec Center 68B, In Person Term Based; Taber Tang ; 1 cr.  
34072 007 LAB, 10:10-11:50 Th, University Rec Center 68B, In Person Term Based; Bryan Karban ; 1 cr.

### 1046 Tae Kwon Do

(Student Option No Audit; )

15749 001 LEC, 09:05-09:55 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
15749 001 LEC, 09:05-09:55 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
15750 002 LEC, 10:10-11:00 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
15750 002 LEC, 10:10-11:00 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.  
16567 003 LEC, 11:15-12:05 TTh, Cooke Hall 325, In Person Term Based; Aaron Kim ; 1 cr.

### 1048 Bowling

(Student Option No Audit; )

15319 001 LAB, 09:05-09:55 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15319 001 LAB, 09:05-09:55 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15814 002 LAB, 10:10-11:00 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15814 002 LAB, 10:10-11:00 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15815 008 LAB, 12:20-13:10 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15815 008 LAB, 12:20-13:10 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15816 004 LAB, 12:20-13:10 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15816 004 LAB, 12:20-13:10 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15817 003 LAB, 11:15-12:05 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15817 003 LAB, 11:15-12:05 MW, Coffman Memorial Union B3, In Person Term Based; Michael Schmid ; 1 cr.  
15943 006 LAB, 10:10-11:00 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15943 006 LAB, 10:10-11:00 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15944 007 LAB, 11:15-12:05 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15944 007 LAB, 11:15-12:05 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15982 005 LAB, 09:05-09:55 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.  
15982 005 LAB, 09:05-09:55 TTh, Coffman Memorial Union B3, In Person Term Based; Jason Hanson ; 1 cr.

### 1055 Golf

(Student Option No Audit; )

16309 007 LAB, 10:40-12:30 MW, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.  
16309 007 LAB, 10:40-12:30 MW, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.  
16309 007 LAB, 10:40-12:30 MW, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.  
16461 008 LAB, 13:20-15:10 MW, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.  
16571 009 LAB, 09:25-12:45 F, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.  
16572 010 LAB, 13:25-16:50 F, Les Bolstad Golf Crse Clubhous, In Person Term Based; Gregory Schulze ; 1 cr.

### 1067 Basketball

(Student Option No Audit; )

15322 001 LAB, 08:00-08:50 MW, University Rec Center 335, In Person Term Based; Wenxi Liu ; 1 cr.  
15322 001 LAB, 08:00-08:50 MW, University Rec Center 335, In Person Term Based; Wenxi Liu ; 1 cr.  
15829 002 LAB, 09:05-09:55 MW, University Rec Center 335, In Person Term Based; Wenxi Liu ; 1 cr.  
15829 002 LAB, 09:05-09:55 MW, University Rec Center 335, In Person Term Based; Wenxi Liu ; 1 cr.  
16167 003 LAB, 10:10-11:00 MW, University Rec Center 335, In Person Term Based; Wenxi Liu ; 1 cr.  
16168 004 LAB, 08:00-08:50 TTh, University Rec Center 335, In Person Term Based; Charles Jedlicka ; 1 cr.

### 1071 Beginning Cricket

(Student Option No Audit; )

16676 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; )

15904 003 LAB, 09:05-10:45 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.  
15904 003 LAB, 09:05-10:45 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.  
15905 004 LAB, 11:15-12:55 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.  
15905 004 LAB, 11:15-12:55 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.  
16202 005 LAB, 09:05-10:45 MW, Student Recreation Sports Dome, In Person Term Based; Kokougan Mensah-Etsi ; 1 cr.  
16202 005 LAB, 09:05-10:45 MW, Student Recreation Sports Dome, In Person Term Based; Kokougan Mensah-Etsi ; 1 cr.  
16203 006 LAB, 11:15-12:55 MW, Student Recreation Sports Dome, In Person Term Based; 1 cr.  
16203 006 LAB, 11:15-12:55 MW, Student Recreation Sports Dome, In Person Term Based; 1 cr.  
34909 009 LAB, 09:05-10:45 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.  
34910 010 LAB, 11:15-12:55 TTh, Student Recreation Sports Dome, In Person Term Based; Viktor Adamcsek ; 1 cr.

### 1074 Beginning Volleyball

(Student Option No Audit; )

16756 002 LAB, 09:05-09:55 MW, Cooke Hall 325, In Person Term Based; Rebecca Feczer ; 1 cr.  
34073 001 LAB, 08:00-08:50 MW, Cooke Hall 325, In Person Term Based; Rebecca Feczer ; 1 cr.

### 1076 Flag Football

(Student Option No Audit; )

15945 001 LAB, 08:00-09:40 TTh, TCF Bank Stadium Field East, In Person Term Based; Jaime Medina ; 1 cr.  
15945 001 LAB, 08:00-09:40 TTh, TCF Bank Stadium Field East, In Person Term Based; Jaime Medina ; 1 cr.  
15945 001 LAB, 08:00-09:40 TTh, TCF Bank Stadium Field East, In Person Term Based; Jaime Medina ; 1 cr.

### 1137 Intermediate Squash

(Student Option No Audit; Prereq: 1037 or instr consent)

34075 001 LAB, 10:10-11:45 F, University Rec Center 143, In Person Term Based; John Stever ; 1 cr.

### 1205 Scuba and Skin Diving

(Student Option No Audit; Prereq: Ability to swim 400 yds comfortably or instr consent)

15304 001 LAB, 18:00-22:15 M, University Aquatic Center 55, In Person Term Based; Robert Karl ; 1 cr.  
15304 001 LAB, 18:00-22:15 M, University Aquatic Center 55, In Person Term Based; Robert Karl ; 1 cr.  
15304 001 LAB, 18:00-22:15 M, University Aquatic Center 55, In Person Term Based; Robert Karl ; 1 cr.  
15305 002 LAB, 10:10-12:05 TTh, University Aquatic Center 55, In Person Term Based; Hanz Lehrke ; 1 cr.  
15305 002 LAB, 10:10-12:05 TTh, University Aquatic Center 55, In Person Term Based; Hanz Lehrke ; 1 cr.  
15305 002 LAB, 10:10-12:05 TTh, University Aquatic Center 55, In Person Term Based; Hanz Lehrke ; 1 cr.  
15423 003 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
15423 003 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
15423 003 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
15424 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
15424 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
15424 004 LAB, 18:00-22:15 M, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
16485 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
16485 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
16485 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.  
16485 006 LAB, 18:00-22:15 W, University Aquatic Center 45, In Person Term Based; Robert Karl ; 1 cr.

## Physical Therapy (PT)

### 1002 Orientation to Physical Therapy

(S-N or Audit; )

27504 001 LEC, 13:25-14:15 T, Mayo Bldg & Additions 3-125, In Person Term Based; Justin Staker ; 1 cr.

## Physics (PHYS)



**1001W Energy and the Environment****(Student Option; Prereq: 1 yr high school algebraENV,WI,PHYS)**

- 24099 100 LEC, 12:20-13:10 MWF, Tate Hall B20, In Person Term Based; J Halley ; 4 cr.  
 24100 101 LAB, 10:10-12:05 Th, Tate Hall B78, In Person Term Based; 4 cr.  
 24101 102 LAB, 14:30-16:25 Th, Tate Hall B78, In Person Term Based; 4 cr.  
 24102 103 LAB, 16:40-18:35 Th, Tate Hall B78, In Person Term Based; Alexander Reineck ; 4 cr.  
 24103 104 LAB, 08:00-09:55 F, Tate Hall B78, In Person Term Based; Agniva Ghosh ; 4 cr.  
 24104 105 LAB, 10:10-12:05 F, Tate Hall B78, In Person Term Based; 4 cr.  
 24105 106 LAB, 13:25-15:20 F, 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)**

- 24106 100 LEC, 13:25-14:15 MWF, Tate Hall B50, In Person Term Based; Vincent Noireaux ; 4 cr.  
 24107 102 DIS, 13:25-14:15 T, Amundson Hall 120, In Person Term Based; 4 cr.  
 24108 103 LAB, 11:15-13:10 M, Tate Hall B76, In Person Term Based; 4 cr.  
 24109 104 DIS, 13:25-14:15 T, Cooke Hall 215, In Person Term Based; 4 cr.  
 24110 105 LAB, 14:30-16:25 M, Tate Hall B76, In Person Term Based; 4 cr.  
 24111 106 DIS, 13:25-14:15 T, Blegen Hall 205, In Person Term Based; 4 cr.  
 24112 107 LAB, 08:00-09:55 T, Tate Hall B76, In Person Term Based; 4 cr.  
 24113 108 DIS, 13:25-14:15 T, Appleby Hall 319, In Person Term Based; 4 cr.  
 24114 109 LAB, 10:10-12:05 T, Tate Hall B76, In Person Term Based; 4 cr.  
 24115 122 DIS, 14:30-15:20 T, Ford Hall 170, In Person Term Based; 4 cr.  
 24116 126 DIS, 14:30-15:20 T, Nicholson Hall 315, In Person Term Based; 4 cr.  
 24117 127 LAB, 14:30-16:25 Th, Tate Hall B76, In Person Term Based; 4 cr.  
 24118 128 DIS, 14:30-15:20 T, Akerman Hall 327, In Person Term Based; 4 cr.  
 24119 129 LAB, 16:40-18:35 Th, Tate Hall B76, In Person Term Based; 4 cr.  
 24120 130 DIS, 14:30-15:20 T, Folwell Hall 10, In Person Term Based; 4 cr.  
 24121 131 LAB, 09:05-11:00 F, Tate Hall B76, In Person Term Based; 4 cr.  
 24122 200 LEC, 17:45-19:00 TTh, Tate Hall B50, In Person Term Based; Elias Puchner ; 4 cr.  
 24123 202 DIS, 19:15-20:05 T, Smith Hall 111, In Person Term Based; 4 cr.  
 24124 203 LAB, 16:40-18:35 M, Tate Hall B76, In Person Term Based; 4 cr.  
 24125 204 DIS, 19:15-20:05 T, Tate Hall B85, In Person Term Based; 4 cr.  
 24126 205 LAB, 18:50-20:45 M, Tate Hall B76, In Person Term Based; 4 cr.  
 24127 231 LAB, 17:45-19:40 W, Tate Hall B76, In Person Term Based; 4 cr.  
 24794 206 DIS, 19:15-20:05 T, Tate Hall B55, In Person Term Based; 4 cr.  
 24795 207 LAB, 12:20-14:15 T, Tate Hall B76, In Person Term Based; 4 cr.  
 24864 234 DIS, 20:15-21:05 T, Tate Hall B55, In Person Term Based; 4 cr.  
 24865 235 LAB, 10:10-12:05 Th, Tate Hall B76, In Person Term Based; 4 cr.  
 26124 124 DIS, 14:30-15:20 T, Vincent Hall 313, In Person Term Based; 4 cr.  
 26125 230 DIS, 20:15-21:05 T, Tate Hall B45, In Person Term Based; 4 cr.  
 26307 123 LAB, 11:15-13:10 W, Tate Hall B76, In Person Term Based; 4 cr.  
 26308 125 LAB, 12:20-14:15 Th, Tate Hall B76, In Person Term Based; 4 cr.  
 26871 120 DIS, 14:30-15:20 T, Bruininks Hall 119, In Person Term Based; 4 cr.  
 26872 121 LAB, 09:05-11:00 W, Tate Hall B76, In Person Term Based; 4 cr.  
 26875 236 DIS, 20:15-21:05 T, Tate Hall B85, In Person Term Based; 4 cr.  
 26876 237 LAB, 14:30-16:25 F, Tate Hall B76, In Person Term Based; 4 cr.  
 27101 111 LAB, 14:30-16:25 T, Tate Hall B76, In Person Term Based; 4 cr.  
 27102 110 DIS, 13:25-14:15 T, Blegen Hall 225, In Person Term Based; Adam Hodapp ; 4 cr.  
 34338 112 DIS, 13:25-14:15 T, Tate Hall B55, In Person Term Based; 4 cr.

- 34339 113 LAB, 16:40-18:35 T, Tate Hall B76, In Person Term Based; 4 cr.  
 34342 208 DIS, 19:15-20:05 T, Tate Hall B65, In Person Term Based; 4 cr.  
 34343 209 LAB, 13:25-15:20 W, Tate Hall B76, In Person Term Based; 4 cr.  
 34344 232 DIS, 20:15-21:05 T, Ford Hall 170, In Person Term Based; 4 cr.  
 34345 233 LAB, 08:00-09:55 Th, Tate Hall B76, In Person Term Based; 4 cr.

**1107 Introductory Physics Online I****(Student Option; Prereq: High school algebra, plane geometry, trigonometryPHYS)**

- 25536 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)**

- 33319 100 LEC, 12:20-13:10 MWF, Tate Hall B50, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, In Person Term Based; Vincent Noireaux ; 4 cr.  
 33855 200 LEC, 16:40-17:30 MTW, Tate Hall B50, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, 18:30-20:30 Th, Room TBA, In Person Term Based; Jeremiah Mans ; 4 cr.  
 34142 101 DIS, 11:15-12:05 T, Civil Engineering Bldg 202, In Person Term Based; Jacob Schulze ; 4 cr.  
 34143 102 LAB, 09:05-11:00 T, Tate Hall B59, In Person Term Based; Jacob Schulze ; 4 cr.  
 34144 103 DIS, 11:15-12:05 T, Appleby Hall 223, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34145 104 LAB, 14:30-16:25 T, Tate Hall B59, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34146 105 DIS, 11:15-12:05 T, Anderson Hall 210, In Person Term Based; Subhodip Saha ; 4 cr.  
 34147 106 LAB, 16:40-18:35 T, Tate Hall B59, In Person Term Based; Subhodip Saha ; 4 cr.  
 34148 107 DIS, 11:15-12:05 T, Lind Hall 340, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34149 108 LAB, 08:00-10:10 W, Tate Hall B59, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34150 109 DIS, 11:15-12:05 T, Hubert H. Humphrey School 20, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34151 110 LAB, 10:10-12:05 W, Tate Hall B59, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34152 121 DIS, 12:20-13:10 T, Ford Hall B60, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34153 122 LAB, 13:25-15:20 W, Tate Hall B59, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34154 123 DIS, 12:20-13:10 T, Blegen Hall 105, In Person Term Based; Subhodip Saha ; 4 cr.  
 34155 124 LAB, 15:35-17:30 W, Tate Hall B59, In Person Term Based; Subhodip Saha ; 4 cr.  
 34156 125 DIS, 12:20-13:10 T, Hubert H. Humphrey School 60, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34157 126 LAB, 08:00-09:55 Th, Tate Hall B59, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34158 127 DIS, 12:20-13:10 T, Lind Hall 340, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34159 128 LAB, 10:10-12:05 Th, Tate Hall B59, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34160 129 DIS, 12:20-13:10 T, Amundson Hall 156, In Person Term Based; Jacob Schulze ; 4 cr.  
 34161 130 LAB, 12:20-14:15 Th, Tate Hall B59, In Person Term Based; Jacob Schulze ; 4 cr.  
 34162 141 DIS, 13:25-14:15 T, Ford Hall B60, In Person Term Based; Jacob Schulze ; 4 cr.  
 34163 142 LAB, 14:30-16:25 Th, Tate Hall B59, In Person Term Based; Jacob Schulze ; 4 cr.  
 34164 143 DIS, 13:25-14:15 T, Bruininks Hall 119, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34165 144 LAB, 15:35-17:30 Th, Tate Hall B70, In Person Term Based; Mohammad Abrar Wadud ; 4 cr.  
 34166 145 DIS, 13:25-14:15 T, Akerman Hall 225, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34167 146 LAB, 08:00-09:55 F, Tate Hall B59, In Person Term Based; Evgeniy Kurianovych ; 4 cr.  
 34168 147 DIS, 13:25-14:15 T, Hubert H. Humphrey School 184, In Person Term Based; Subhodip Saha ; 4 cr.  
 34169 148 LAB, 10:10-12:05 F, Tate Hall B59, In Person Term Based; Subhodip Saha ; 4 cr.  
 34170 149 DIS, 13:25-14:15 T, Blegen Hall 110, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34171 150 LAB, 13:25-15:20 F, Tate Hall B59, In Person Term Based; Konstantin Davydov ; 4 cr.  
 34179 201 DIS, 15:35-16:25 Th, Elliott Hall N647, In Person Term Based; Dayu Zhai ; 4 cr.  
 34180 202 LAB, 08:00-09:55 T, Bruininks Hall B70, In Person Term Based; Dayu Zhai ; 4 cr.  
 34181 203 DIS, 15:35-16:25 Th, Bruininks Hall 530A, In Person Term Based; Zachary Lesko ; 4 cr.  
 34182 204 LAB, 10:10-12:05 T, Tate Hall B70, In Person Term Based; Zachary Lesko ; 4 cr.

- 34183 205 DIS, 15:35-16:25 Th, Peik Hall 155, In Person Term Based; Peter Stoekli ; 4 cr.  
 34184 206 LAB, 12:20-14:15 T, Tate Hall B59, In Person Term Based; Peter Stoekli ; 4 cr.  
 34185 207 DIS, 15:35-16:25 Th, Kolthoff Hall 132, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34186 208 LAB, 14:30-16:25 T, Tate Hall B70, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34189 221 DIS, 16:40-17:30 Th, Peik Hall 165, In Person Term Based; Peter Stoekli ; 4 cr.  
 34190 222 LAB, 08:00-09:55 W, Tate Hall B70, In Person Term Based; Peter Stoekli ; 4 cr.  
 34191 223 DIS, 16:40-17:30 Th, Smith Hall 121, In Person Term Based; Dayu Zhai ; 4 cr.  
 34192 224 LAB, 10:10-12:05 W, Tate Hall B70, In Person Term Based; Dayu Zhai ; 4 cr.  
 34193 225 DIS, 16:40-17:30 Th, Ford Hall B60, In Person Term Based; Zachary Lesko ; 4 cr.  
 34194 226 LAB, 12:20-14:15 W, Tate Hall B70, In Person Term Based; Zachary Lesko ; 4 cr.  
 34195 227 DIS, 16:40-17:30 Th, Vincent Hall 313, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34196 228 LAB, 14:30-16:25 W, Tate Hall B70, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34199 241 DIS, 14:30-15:20 Th, Bruininks Hall 121, In Person Term Based; Dayu Zhai ; 4 cr.  
 34200 242 LAB, 09:05-11:00 Th, Tate Hall B70, In Person Term Based; Dayu Zhai ; 4 cr.  
 34201 243 DIS, 14:30-15:20 Th, Appleby Hall 302, In Person Term Based; Zachary Lesko ; 4 cr.  
 34202 244 LAB, 11:15-13:10 Th, Tate Hall B70, In Person Term Based; Zachary Lesko ; 4 cr.  
 34205 247 DIS, 14:30-15:20 Th, Bruininks Hall 117, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34206 248 LAB, 09:05-11:00 F, Tate Hall B70, In Person Term Based; Aritra Lahiri ; 4 cr.  
 34207 249 DIS, 14:30-15:20 Th, Peik Hall 375, In Person Term Based; Peter Stoekli ; 4 cr.  
 34208 250 LAB, 11:15-13:10 F, Tate Hall B70, In Person Term Based; Peter Stoekli ; 4 cr.

**1222 Introductory Physics for Life Science Majors II****(Student Option; Prereq: PHYS 1221 or equivalentPHYS)**

- 33320 100 LEC, 15:35-16:25 MTWF, Tate Hall B50, In Person Term Based; Aaron Wynveen ; 4 cr.  
 34172 101 DIS, 14:30-15:20 Th, Tate Hall B55, In Person Term Based; Prahars Suryadevara ; 4 cr.  
 34173 102 LAB, 16:40-18:35 M, Tate Hall B74, In Person Term Based; Prahars Suryadevara ; 4 cr.  
 34214 103 DIS, 14:30-15:20 Th, Blegen Hall 105, In Person Term Based; Minh Nguyen ; 4 cr.  
 34215 104 LAB, 08:00-09:55 T, Tate Hall B74, In Person Term Based; Minh Nguyen ; 4 cr.  
 34216 105 DIS, 14:30-15:20 Th, Nicholson Hall 315, In Person Term Based; Virginia Gali ; 4 cr.  
 34217 106 LAB, 10:10-12:05 T, Tate Hall B74, In Person Term Based; Virginia Gali ; 4 cr.  
 34218 107 DIS, 14:30-15:20 Th, Ford Hall 115, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34219 108 LAB, 12:20-14:15 T, Tate Hall B74, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34220 109 DIS, 14:30-15:20 Th, Ford Hall 110, In Person Term Based; Juan Velasco ; 4 cr.  
 34221 110 LAB, 16:40-18:35 T, Tate Hall B74, In Person Term Based; Juan Velasco ; 4 cr.  
 34222 121 DIS, 15:35-16:25 Th, Amundson Hall 162, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34223 122 LAB, 09:05-11:00 W, Tate Hall B74, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34224 123 DIS, 15:35-16:25 Th, Ford Hall 170, In Person Term Based; Virginia Gali ; 4 cr.  
 34225 124 LAB, 11:15-13:10 W, Tate Hall B74, In Person Term Based; Virginia Gali ; 4 cr.  
 34226 125 DIS, 15:35-16:25 Th, Folwell Hall 118, In Person Term Based; Prahars Suryadevara ; 4 cr.  
 34227 126 LAB, 13:25-15:20 W, Tate Hall B74, In Person Term Based; Prahars Suryadevara ; 4 cr.  
 34228 127 DIS, 15:35-16:25 Th, Nicholson Hall 145, In Person Term Based; Juan Velasco ; 4 cr.  
 34229 128 LAB, 16:40-18:35 W, Tate Hall B74, In Person Term Based; Juan Velasco ; 4 cr.  
 34230 129 DIS, 15:35-16:25 Th, Blegen Hall 105, In Person Term Based; Minh Nguyen ; 4 cr.  
 34231 130 LAB, 08:00-09:55 Th, Tate Hall B74, In Person Term Based; Minh Nguyen ; 4 cr.  
 34232 141 DIS, 16:40-17:30 Th, Ford Hall 155, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34233 142 LAB, 10:10-12:05 Th, Tate Hall B74, In Person Term Based; Yilikal Zeleke Ayino ; 4 cr.  
 34234 143 DIS, 16:40-17:30 Th, Vincent Hall 301, In Person Term Based; Virginia Gali ; 4 cr.  
 34235 144 LAB, 12:20-14:15 Th, Tate Hall B74, In Person Term Based; Virginia Gali ; 4 cr.

34236 145 DIS, 16:40-17:30 Th, Social Sciences Building 278, In Person Term Based; Minh Nguyen ; 4 cr.	24585 106 DIS, 08:00-08:50 Th, Amundson Hall 104, In Person Term Based; Lis Stolik Valor ; 4 cr.	26593 225 LAB, 12:20-14:15 Th, Tate Hall B26, In Person Term Based; Svetlana Swarup ; 4 cr.
34237 146 LAB, 08:00-09:55 F, Tate Hall B74, In Person Term Based; Minh Nguyen ; 4 cr.	24695 600 LEC, 17:45-19:05 MW, Tate Hall B50, In Person Term Based; Aaron Wynveen ; 4 cr.	26598 204 DIS, 08:00-08:50 Th, Peik Hall 165, In Person Term Based; Neil Schroeder ; 4 cr.
34238 147 DIS, 16:40-17:30 Th, Wulling Hall 220, In Person Term Based; Juan Velasco ; 4 cr.	24696 620 DIS, 20:15-21:05 M, Vincent Hall 313, In Person Term Based; 4 cr.	26599 205 LAB, 11:15-13:10 T, Tate Hall B63, In Person Term Based; Neil Schroeder ; 4 cr.
34239 148 LAB, 10:10-12:05 F, Tate Hall B74, In Person Term Based; Juan Velasco ; 4 cr.	24697 621 LAB, 10:10-12:05 Th, Tate Hall B26, In Person Term Based; 4 cr.	26600 226 DIS, 09:05-09:55 Th, Nicholson Hall 315, In Person Term Based; 4 cr.
34240 149 DIS, 16:40-17:30 Th, Vincent Hall 364, In Person Term Based; Prahharsh Suryadevara ; 4 cr.	24907 604 DIS, 19:15-20:05 M, Smith Hall 111, In Person Term Based; 4 cr.	26601 227 LAB, 17:45-19:40 Th, Tate Hall B26, In Person Term Based; Justyn Fine ; 4 cr.
34241 150 LAB, 12:20-14:15 F, Tate Hall B74, In Person Term Based; Prahharsh Suryadevara ; 4 cr.	24908 605 LAB, 14:30-16:25 M, Tate Hall B23, In Person Term Based; 4 cr.	26602 230 DIS, 09:05-09:55 Th, Civil Engineering Bldg 213, In Person Term Based; 4 cr.
<b>1301W Introductory Physics for Science and Engineering I</b> (Student Option; Prereq: concurrent registration is required (or allowed) in Math 1271 or concurrent registration is required (or allowed) in Math 1371 or concurrent registration is required (or allowed) in Math 1571PHYS,WI)		
24134 112 DIS, 08:00-08:50 Th, Blegen Hall 430, In Person Term Based; 4 cr.	24909 606 DIS, 19:15-20:05 M, Amundson Hall 104, In Person Term Based; 4 cr.	26603 231 LAB, 11:15-13:10 F, Tate Hall B61, In Person Term Based; Xiaohuan Xia ; 4 cr.
24135 113 LAB, 15:35-17:30 T, Tate Hall B26, In Person Term Based; 4 cr.	24910 607 LAB, 13:25-15:20 T, Tate Hall B61, In Person Term Based; 4 cr.	26752 110 DIS, 08:00-08:50 Th, Bruininks Hall 119, In Person Term Based; 4 cr.
24137 114 DIS, 08:00-08:50 Th, Lind Hall 315, In Person Term Based; 4 cr.	24911 626 DIS, 20:15-21:05 M, Ford Hall 170, In Person Term Based; 4 cr.	26753 111 LAB, 13:25-15:20 T, Tate Hall B26, In Person Term Based; 4 cr.
24138 107 LAB, 09:05-11:00 T, Tate Hall B63, In Person Term Based; 4 cr.	24912 627 LAB, 08:00-09:55 F, Tate Hall B26, In Person Term Based; 4 cr.	26754 312 DIS, 10:10-11:00 Th, Ford Hall 110, In Person Term Based; Mohit Gupta ; 4 cr.
24139 108 DIS, 08:00-08:50 Th, Ford Hall 155, In Person Term Based; 4 cr.	25853 608 DIS, 19:15-20:05 M, Vincent Hall 313, In Person Term Based; 4 cr.	26755 313 LAB, 12:20-14:15 W, Tate Hall B61, In Person Term Based; Mohit Gupta ; 4 cr.
24140 109 LAB, 11:15-13:10 T, Tate Hall B26, In Person Term Based; 4 cr.	25854 609 LAB, 17:45-19:40 T, Tate Hall B61, In Person Term Based; 4 cr.	26756 222 DIS, 09:05-09:55 Th, Folwell Hall 119, In Person Term Based; Neil Schroeder ; 4 cr.
24141 130 DIS, 09:05-09:55 Th, Tate Hall B85, In Person Term Based; 4 cr.	26036 500 LEC, 14:30-15:20 MTWF, Tate Hall B20, In Person Term Based; Gregory Pawloski ; 4 cr.	26757 213 LAB, 15:35-17:30 W, Tate Hall B23, In Person Term Based; Kalven Bonin ; 4 cr.
24142 131 LAB, 09:05-11:00 W, Tate Hall B63, In Person Term Based; 4 cr.	26037 502 DIS, 14:30-15:20 Th, Folwell Hall 10, In Person Term Based; Michael Janas ; 4 cr.	26775 228 DIS, 09:05-09:55 Th, Folwell Hall 112, In Person Term Based; 4 cr.
24143 132 DIS, 09:05-09:55 Th, Social Sciences Building 278, In Person Term Based; 4 cr.	26038 503 LAB, 12:20-14:15 M, Tate Hall B23, In Person Term Based; Michael Janas ; 4 cr.	26776 229 LAB, 17:45-19:40 Th, Tate Hall B23, In Person Term Based; Sarunas Verner ; 4 cr.
24144 133 LAB, 11:15-13:10 W, Tate Hall B63, In Person Term Based; 4 cr.	26039 504 DIS, 14:30-15:20 Th, Folwell Hall 3, In Person Term Based; 4 cr.	26797 400 LEC, 11:15-12:05 MTWF, Tate Hall B50, In Person Term Based; Gregory Pawloski ; 4 cr.
24145 300 LEC, 10:10-11:00 MTWF, Tate Hall B50, In Person Term Based; Marvin Marshak ; 4 cr.	26040 505 LAB, 08:00-09:55 T, Tate Hall B26, In Person Term Based; 4 cr.	26798 200 LEC, 09:05-09:55 MTWF, Tate Hall B50, In Person Term Based; Nadja Strobbe ; 4 cr.
24146 302 DIS, 10:10-11:00 Th, Tate Hall B65, In Person Term Based; Charles Kapsiak ; 4 cr.	26041 508 DIS, 14:30-15:20 Th, Wulling Hall 240, In Person Term Based; Axel Gross ; 4 cr.	26894 332 DIS, 11:15-12:05 Th, Kolthoff Hall 140, In Person Term Based; 4 cr.
24147 303 LAB, 16:40-18:35 M, Tate Hall B23, In Person Term Based; Charles Kapsiak ; 4 cr.	26042 509 LAB, 09:05-11:00 W, Tate Hall B61, In Person Term Based; Axel Gross ; 4 cr.	26895 333 LAB, 13:25-15:20 Th, Tate Hall B23, In Person Term Based; 4 cr.
24148 304 DIS, 10:10-11:00 Th, Vincent Hall 301, In Person Term Based; 4 cr.	26043 510 DIS, 14:30-15:20 Th, Kolthoff Hall 132, In Person Term Based; Sanket Chirame ; 4 cr.	26896 334 DIS, 11:15-12:05 Th, Bruininks Hall 230, In Person Term Based; Charles Kapsiak ; 4 cr.
24149 305 LAB, 12:20-14:15 T, Tate Hall B23, In Person Term Based; 4 cr.	26044 511 LAB, 11:15-13:10 W, Tate Hall B26, In Person Term Based; Sanket Chirame ; 4 cr.	26897 335 LAB, 15:35-17:30 Th, Tate Hall B26, In Person Term Based; Charles Kapsiak ; 4 cr.
24150 306 DIS, 10:10-11:00 Th, Wulling Hall 220, In Person Term Based; 4 cr.	26047 525 LAB, 10:10-12:20 Th, Tate Hall B63, In Person Term Based; 4 cr.	26898 402 DIS, 11:15-12:05 Th, Civil Engineering Bldg 202, In Person Term Based; Michael Janas ; 4 cr.
24151 307 LAB, 14:30-16:25 T, Tate Hall B23, In Person Term Based; 4 cr.	26048 528 DIS, 15:35-16:25 Th, Wulling Hall 240, In Person Term Based; Axel Gross ; 4 cr.	26899 406 DIS, 11:15-12:05 Th, Kolthoff Hall 136, In Person Term Based; 4 cr.
24152 308 DIS, 10:10-11:00 Th, Civil Engineering Bldg 202, In Person Term Based; 4 cr.	26049 529 LAB, 08:00-09:55 F, Tate Hall B23, In Person Term Based; Axel Gross ; 4 cr.	26900 407 LAB, 08:00-09:55 T, Tate Hall B23, In Person Term Based; 4 cr.
24153 309 LAB, 16:40-18:35 T, Tate Hall B23, In Person Term Based; 4 cr.	26129 138 DIS, 09:05-09:55 Th, Ford Hall 150, In Person Term Based; 4 cr.	26901 408 DIS, 11:15-12:05 Th, Bruininks Hall 530B, In Person Term Based; 4 cr.
24154 310 DIS, 10:10-11:00 Th, Lind Hall 325, In Person Term Based; Andrew Evans ; 4 cr.	26130 524 DIS, 15:35-16:25 Th, Ford Hall 115, In Person Term Based; 4 cr.	26902 409 LAB, 13:25-15:20 T, Tate Hall B63, In Person Term Based; 4 cr.
24155 311 LAB, 08:00-09:55 W, Tate Hall B26, In Person Term Based; Andrew Evans ; 4 cr.	26131 624 DIS, 20:15-21:05 M, Vincent Hall 301, In Person Term Based; 4 cr.	26903 410 DIS, 11:15-12:05 Th, Blegen Hall 105, In Person Term Based; 4 cr.
24156 210 DIS, 08:00-08:50 Th, Kolthoff Hall 135, In Person Term Based; Svetlana Swarup ; 4 cr.	26132 625 LAB, 18:50-20:45 Th, Tate Hall B63, In Person Term Based; 4 cr.	26904 411 LAB, 15:35-17:30 T, Tate Hall B61, In Person Term Based; 4 cr.
24157 211 LAB, 13:25-15:20 W, Tate Hall B26, In Person Term Based; Svetlana Swarup ; 4 cr.	26491 202 DIS, 08:00-08:50 Th, Vincent Hall 301, In Person Term Based; Zachary Lesko ; 4 cr.	26905 420 DIS, 12:20-13:10 Th, Folwell Hall 116, In Person Term Based; Michael Janas ; 4 cr.
24158 214 DIS, 08:00-08:50 Th, Kolthoff Hall 132, In Person Term Based; Luca Galbraith ; 4 cr.	26492 203 LAB, 12:20-14:15 M, Tate Hall B26, In Person Term Based; Zachary Lesko ; 4 cr.	26906 421 LAB, 16:40-18:35 W, Tate Hall B61, In Person Term Based; Michael Janas ; 4 cr.
24159 403 LAB, 14:30-16:25 M, Tate Hall B63, In Person Term Based; Michael Janas ; 4 cr.	26493 233 LAB, 12:20-14:15 F, Tate Hall B63, In Person Term Based; Luca Galbraith ; 4 cr.	26907 424 DIS, 12:20-13:10 Th, Civil Engineering Bldg 213, In Person Term Based; 4 cr.
24160 336 DIS, 11:15-12:05 Th, Folwell Hall 10, In Person Term Based; Thomas Eichlersmith ; 4 cr.	26494 530 DIS, 15:35-16:25 Th, Appleby Hall 226, In Person Term Based; Sanket Chirame ; 4 cr.	26908 425 LAB, 09:05-11:00 Th, Tate Hall B23, In Person Term Based; 4 cr.
24161 337 LAB, 17:45-19:40 Th, Tate Hall B61, In Person Term Based; Thomas Eichlersmith ; 4 cr.	26495 531 LAB, 10:10-12:05 F, Tate Hall B63, In Person Term Based; Sanket Chirame ; 4 cr.	26909 426 DIS, 12:20-13:10 Th, Cooke Hall 215, In Person Term Based; Liangtai Xing ; 4 cr.
24162 340 DIS, 11:15-12:05 Th, Tate Hall B85, In Person Term Based; Mohit Gupta ; 4 cr.	26496 610 DIS, 19:15-20:05 M, Amundson Hall 156, In Person Term Based; 4 cr.	26910 427 LAB, 13:25-15:20 Th, Tate Hall B61, In Person Term Based; Liangtai Xing ; 4 cr.
24163 341 LAB, 12:20-14:15 F, Tate Hall B26, In Person Term Based; Mohit Gupta ; 4 cr.	26497 611 LAB, 10:10-12:05 Th, Tate Hall B61, In Person Term Based; 4 cr.	27037 234 DIS, 09:05-09:55 Th, Vincent Hall 313, In Person Term Based; Zachary Lesko ; 4 cr.
24164 342 DIS, 11:15-12:05 Th, Peik Gymnasium G55, In Person Term Based; 4 cr.	26498 614 DIS, 19:15-20:05 M, Tate Hall B45, In Person Term Based; 4 cr.	27038 235 LAB, 12:20-14:15 F, Tate Hall B23, In Person Term Based; Zachary Lesko ; 4 cr.
24165 343 LAB, 14:30-16:25 F, Tate Hall B26, In Person Term Based; 4 cr.	26499 615 LAB, 19:20-21:15 W, Tate Hall B63, In Person Term Based; 4 cr.	27040 338 DIS, 11:15-12:05 Th, Appleby Hall 3, In Person Term Based; 4 cr.
24557 115 LAB, 17:45-19:40 T, Tate Hall B63, In Person Term Based; 4 cr.	26580 206 DIS, 08:00-08:50 Th, Civil Engineering Bldg 213, In Person Term Based; Tommy Kuan ; 4 cr.	27041 339 LAB, 08:00-09:55 F, Tate Hall B63, In Person Term Based; 4 cr.
24559 139 LAB, 12:20-14:15 Th, Tate Hall B63, In Person Term Based; 4 cr.	26581 207 LAB, 15:35-17:30 T, Tate Hall B63, In Person Term Based; Tommy Kuan ; 4 cr.	27042 412 DIS, 11:15-12:05 Th, Mechanical Engineering 18, In Person Term Based; Meets With: 414 PHYS 1301W; Yuting Wang, Merin A P ; 4 cr.
24560 314 DIS, 10:10-11:00 Th, Hubert H. Humphrey School 30, In Person Term Based; Kazi Ranjibul Islam ; 4 cr.	26582 212 DIS, 08:00-08:50 Th, Kolthoff Hall 136, In Person Term Based; Kalven Bonin ; 4 cr.	27043 413 LAB, 08:00-09:55 W, Tate Hall B23, In Person Term Based; Yuting Wang ; 4 cr.
24561 315 LAB, 15:35-17:30 W, Tate Hall B26, In Person Term Based; Kazi Ranjibul Islam ; 4 cr.	26583 215 LAB, 13:25-15:20 W, Tate Hall B23, In Person Term Based; Luca Galbraith ; 4 cr.	27138 613 LAB, 15:35-17:30 W, Tate Hall B63, In Person Term Based; 4 cr.
24580 100 LEC, 08:00-08:50 MTWF, Tate Hall B50, In Person Term Based; Paul Haines ; 4 cr.	26586 208 DIS, 08:00-08:50 Th, Vincent Hall 364, In Person Term Based; 4 cr.	27139 622 DIS, 20:15-21:05 M, Ford Hall 155, In Person Term Based; 4 cr.
24583 104 DIS, 08:00-08:50 Th, Vincent Hall 313, In Person Term Based; 4 cr.	26587 209 LAB, 17:45-19:40 T, Tate Hall B26, In Person Term Based; 4 cr.	27140 623 LAB, 14:30-16:25 Th, Tate Hall B63, In Person Term Based; 4 cr.
24584 105 LAB, 14:30-16:25 M, Tate Hall B26, In Person Term Based; 4 cr.	26588 330 DIS, 11:15-12:05 Th, Carlson School of Mgmt 1-149, In Person Term Based; Kazi Ranjibul Islam ; 4 cr.	33635 404 DIS, 11:15-12:05 Th, Tate Hall B50, In Person Term Based; Liangtai Xing ; 4 cr.
	26589 331 LAB, 08:00-09:55 Th, Tate Hall B63, In Person Term Based; Kazi Ranjibul Islam ; 4 cr.	33636 405 LAB, 16:40-18:35 M, Tate Hall B63, In Person Term Based; Liangtai Xing ; 4 cr.
	26590 232 DIS, 09:05-09:55 Th, Wulling Hall 220, In Person Term Based; 4 cr.	33637 414 DIS, 11:15-12:05 Th, Mechanical Engineering 18, In Person Term Based; Meets With: 412 PHYS 1301W; Yuting Wang, Merin A P ; 4 cr.
	26591 223 LAB, 17:45-19:40 W, Tate Hall B26, In Person Term Based; Neil Schroeder ; 4 cr.	33638 415 LAB, 14:30-16:25 W, Tate Hall B61, In Person Term Based; 4 cr.
	26592 224 DIS, 09:05-09:55 Th, Kolthoff Hall 132, In Person Term Based; Svetlana Swarup ; 4 cr.	

33641 422 DIS, 12:20-13:10 Th, Appleby Hall 302, In Person Term Based; 4 cr.  
 33642 423 LAB, 08:00-09:55 Th, Tate Hall B26, In Person Term Based; 4 cr.  
 33648 428 DIS, 12:20-13:10 Th, Bruininks Hall 512A, In Person Term Based; 4 cr.  
 33649 429 LAB, 15:35-17:30 Th, Tate Hall B23, In Person Term Based; 4 cr.  
 33650 430 DIS, 12:20-13:10 Th, Amundson Hall 104, In Person Term Based; 4 cr.  
 33651 431 LAB, 18:50-20:45 T, Tate Hall B23, In Person Term Based; 4 cr.  
 33652 432 DIS, 12:20-13:10 Th, Vincent Hall 301, In Person Term Based; Yuting Wang ; 4 cr.  
 33653 433 LAB, 08:00-09:55 F, Tate Hall B61, In Person Term Based; Yuting Wang ; 4 cr.  
 33658 612 DIS, 19:15-20:05 M, Tate Hall B85, In Person Term Based; 4 cr.  
 34346 134 DIS, 09:05-09:55 Th, Cooke Hall 215, In Person Term Based; 4 cr.  
 34347 135 LAB, 13:25-15:20 W, Tate Hall B63, In Person Term Based; 4 cr.  
 34348 140 DIS, 09:05-09:55 Th, Ford Hall B60, In Person Term Based; 4 cr.  
 34349 141 LAB, 16:40-18:35 Th, Tate Hall B63, In Person Term Based; 4 cr.  
 34350 142 DIS, 09:05-09:55 Th, Hubert H. Humphrey School 30, In Person Term Based; 4 cr.  
 34351 143 LAB, 10:10-12:05 F, Tate Hall B26, In Person Term Based; 4 cr.  
 34354 522 DIS, 15:35-16:25 Th, Folwell Hall 10, In Person Term Based; 4 cr.  
 34355 523 LAB, 08:00-09:55 Th, Tate Hall B61, In Person Term Based; 4 cr.  
 34358 630 DIS, 20:15-21:05 M, Tate Hall B85, In Person Term Based; 4 cr.  
 34359 631 LAB, 13:25-15:20 F, Tate Hall B61, In Person Term Based; 4 cr.

**1302W Introductory Physics for Science and Engineering II**  
**(Student Option; Prereq: 1301W, concurrent registration is required (or allowed) in Math 1272 or Math 1372 or Math 1572PHYS,WI)**  
 25950 100 LEC, 08:00-08:50 MTWF, Tate Hall B20, In Person Term Based; Daniel Cronin-Hennessey ; 4 cr.  
 25951 102 DIS, 08:00-08:50 Th, Kolthoff Hall 133, In Person Term Based; 4 cr.  
 25952 105 LAB, 14:30-16:25 M, Tate Hall B72, In Person Term Based; 4 cr.  
 25953 106 DIS, 08:00-08:50 Th, Tate Hall B55, In Person Term Based; 4 cr.  
 25954 107 LAB, 14:30-16:25 T, Tate Hall B72, In Person Term Based; 4 cr.  
 25955 108 DIS, 08:00-08:50 Th, Tate Hall B45, In Person Term Based; 4 cr.  
 25956 109 LAB, 12:20-14:15 W, Tate Hall B72, In Person Term Based; 4 cr.  
 25957 122 DIS, 09:05-09:55 Th, Peik Hall 375, In Person Term Based; 4 cr.  
 25958 123 LAB, 10:10-12:05 Th, Tate Hall B72, In Person Term Based; 4 cr.  
 25959 124 DIS, 09:05-09:55 Th, Blegen Hall 430, In Person Term Based; 4 cr.  
 25960 125 LAB, 14:30-16:25 Th, Tate Hall B72, In Person Term Based; 4 cr.  
 26428 126 DIS, 09:05-09:55 Th, Ford Hall 130, In Person Term Based; 4 cr.  
 26429 127 LAB, 16:40-18:35 Th, Tate Hall B72, In Person Term Based; 4 cr.  
 26500 120 DIS, 09:05-09:55 Th, Kolthoff Hall 136, In Person Term Based; 4 cr.  
 26501 103 LAB, 12:20-14:15 M, Tate Hall B72, In Person Term Based; 4 cr.  
 26502 104 DIS, 08:00-08:50 Th, Social Sciences Building 278, In Person Term Based; 4 cr.  
 26503 121 LAB, 16:40-18:35 W, Tate Hall B72, In Person Term Based; 4 cr.  
 26504 202 DIS, 15:35-16:25 Th, Social Sciences Building 278, In Person Term Based; 4 cr.  
 26505 203 LAB, 16:40-18:35 M, Tate Hall B72, In Person Term Based; 4 cr.  
 26506 204 DIS, 15:35-16:25 Th, Appleby Hall 302, In Person Term Based; 4 cr.  
 26507 205 LAB, 08:00-09:55 T, Tate Hall B72, In Person Term Based; 4 cr.  
 26508 206 DIS, 15:35-16:25 Th, Carlson School of Mgmt 1-136, In Person Term Based; 4 cr.  
 26509 207 LAB, 10:10-12:05 T, Tate Hall B72, In Person Term Based; 4 cr.  
 26803 200 LEC, 15:35-16:25 MTWF, Tate Hall B20, In Person Term Based; Michael Zudov ; 4 cr.  
 26913 222 DIS, 16:40-17:30 Th, Bruininks Hall 420A, In Person Term Based; 4 cr.  
 26914 223 LAB, 10:10-12:05 W, Tate Hall B72, In Person Term Based; 4 cr.

26915 224 DIS, 16:40-17:30 Th, Kolthoff Hall 134, In Person Term Based; 4 cr.  
 26916 225 LAB, 08:00-09:55 Th, Tate Hall B72, In Person Term Based; 4 cr.  
 27044 228 DIS, 16:40-17:30 Th, Kolthoff Hall 137, In Person Term Based; 4 cr.  
 27045 229 LAB, 11:15-13:10 F, Tate Hall B72, In Person Term Based; 4 cr.  
 34360 208 DIS, 15:35-16:25 Th, Peik Hall 165, In Person Term Based; 4 cr.  
 34361 209 LAB, 12:20-14:15 T, Tate Hall B72, In Person Term Based; 4 cr.  
 34362 226 DIS, 16:40-17:30 Th, Kolthoff Hall 133, In Person Term Based; 4 cr.  
 34363 227 LAB, 18:50-20:45 Th, Tate Hall B72, In Person Term Based; 4 cr.

### 1401V Honors Physics I

**(A-F only; PHYS,WI)**

24166 100 LEC, 11:15-12:05 MTWF, Tate Hall B20, In Person Term Based; Robert Lysak ; 4 cr.  
 26134 101 DIS, 11:15-12:05 Th, Room TBA, In Person Term Based; 4 cr.  
 26136 102 DIS, 11:15-12:05 Th, Folwell Hall 30, In Person Term Based; Daniel Schubring ; 4 cr.  
 26137 302 LAB, 14:30-16:25 M, Tate Hall B82, In Person Term Based; 4 cr.  
 26138 103 DIS, 12:20-13:10 Th, Tate Hall B85, In Person Term Based; 4 cr.  
 26139 303 LAB, 16:40-18:35 M, Tate Hall B82, In Person Term Based; 4 cr.  
 26140 104 DIS, 12:20-13:10 Th, Ford Hall 151, In Person Term Based; Rafid Mahubb ; 4 cr.  
 26141 304 LAB, 08:00-09:55 T, Tate Hall B82, In Person Term Based; 4 cr.  
 26142 201 DIS, 13:25-14:15 Th, Tate Hall 120, In Person Term Based; 4 cr.  
 26143 305 LAB, 14:30-16:25 T, Tate Hall B82, In Person Term Based; 4 cr.  
 26144 202 DIS, 13:25-14:15 Th, Tate Hall B55, In Person Term Based; 4 cr.  
 26146 307 LAB, 08:00-09:55 W, Tate Hall B82, In Person Term Based; 4 cr.  
 26147 308 LAB, 15:35-17:30 W, Tate Hall B82, In Person Term Based; 4 cr.  
 26312 309 LAB, 09:05-11:00 Th, Tate Hall B82, In Person Term Based; 4 cr.  
 26313 310 LAB, 15:35-17:30 Th, Tate Hall B82, In Person Term Based; 4 cr.  
 26560 312 LAB, 09:05-11:00 F, Tate Hall B82, In Person Term Based; 4 cr.  
 26999 200 LEC, 13:25-14:15 MTWF, Tate Hall B20, In Person Term Based; Paul Haines ; 4 cr.  
 27018 203 DIS, 14:30-15:20 Th, Tate Hall B85, In Person Term Based; 4 cr.

### 1901 Global Warming Solutions

**(A-F or Audit; )**

27076 001 LEC, 11:15-12:05 MW, Physics & Nanotechnology 110, In Person Term Based; Eric Ganz ; 2 cr.

### 1903 Quantum Mechanics for Everyone

**(A-F only; )**

27077 001 LEC, 09:20-11:00 T, Physics & Nanotechnology 120, In Person Term Based; Allen Goldman ; 2 cr.

### 1911W How Likely is Extraterrestrial Life?

**(A-F or Audit; WI)**

27078 001 LEC, 10:10-11:00 MW, Tate Hall B55, In Person Term Based; J Halley ; 2 cr.

### 2201 Introductory Thermodynamics and Statistical Physics

**(Student Option; Prereq: [1302W or 1402V or 1502V], [concurrent registration is required (or allowed) in MATH 1272 or MATH 1372 or MATH 1572H])**

25832 100 LEC, 09:05-09:55 MWF, Tate Hall 101, In Person Term Based; James Kakalios ; 4 cr.  
 26941 106 DIS, 13:25-14:15 T, Hubert H. Humphrey School 30, In Person Term Based; 4 cr.  
 26942 102 DIS, 09:05-09:55 T, Smith Hall 121, In Person Term Based; 4 cr.  
 26943 103 DIS, 10:10-11:00 T, Civil Engineering Bldg 202, In Person Term Based; 4 cr.  
 26944 104 DIS, 11:15-12:05 T, Tate Hall B85, In Person Term Based; 4 cr.  
 26953 105 DIS, 12:20-13:10 T, Tate Hall B55, In Person Term Based; 4 cr.

### 2503 Physics III: Intro to Waves, Optics, and Special Relativity

**(Student Option; Prereq: 1302W, [MATH 1272 or MATH 1372 or MATH 1572H])**

24836 001 LEC, 14:30-15:20 MTWF, Tate Hall B50, In Person Term Based; Yongzhong Qian ; 4 cr.

### 2503H Honors Physics III

**(A-F only; Prereq: 1402V or 1502V, honors student or permission of University Honors Program or instr consent)**

26532 001 LEC, 11:15-12:05 MTWF, Tate Hall 110, In Person Term Based; Cynthia Cattell ; 4 cr.  
 26533 002 DIS, 11:15-12:05 Th, Tate Hall B55, In Person Term Based; 4 cr.

### 3022 Introduction to Cosmology

**(Student Option; Prereq: 2601)**

33318 100 LEC, 11:15-12:30 TTh, Tate Hall B45, In Person Term Based; Lucy Fortson ; 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)**

24562 001 LAB, 09:05-12:05 MW, Tate Hall B80, In Person Term Based; Steven Brehmer ; 4 cr.  
 24863 002 LAB, 12:20-15:20 MW, Tate Hall B80, In Person Term Based; Roger Rusack ; 4 cr.

### 3605W Modern Physics Laboratory

**(Student Option; Prerequisites: completion (or concurrent registration) in PHYS 2503 or 2503H.WI)**

26937 100 LEC, 12:20-13:10 T, Tate Hall B85, In Person Term Based; Lindsay Glesener ; 3 cr.  
 26938 101 LAB, 10:10-13:10 Th, Tate Hall B40, In Person Term Based; 3 cr.  
 26939 102 LAB, 15:35-18:35 T, Tate Hall B40, In Person Term Based; 3 cr.  
 26940 103 LAB, 15:35-18:35 M, Tate Hall B40, In Person Term Based; 3 cr.

### 3993 Directed Studies

**(Student Option; Prereq: instr consent, dept consent)**  
 24365 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

### 3994 Directed Research

**(Student Option; Prereq: instr consent, dept consent)**  
 24369 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

### 4001 Analytical Mechanics

**(Student Option; Prerequisites developed as required. prereq: [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math)**

25829 100 LEC, 13:25-14:15 MWF, Tate Hall 110, In Person Term Based; Ken Heller ; 4 cr.  
 25830 101 DIS, 12:20-13:10 T, Vincent Hall 301, In Person Term Based; 4 cr.  
 25831 102 DIS, 12:20-13:10 T, Physics & Nanotechnology 110, In Person Term Based; 4 cr.  
 25850 103 DIS, 13:25-14:15 T, Vincent Hall 2, In Person Term Based; 4 cr.  
 25997 104 DIS, 13:25-14:15 T, Physics & Nanotechnology 110, In Person Term Based; 4 cr.

### 4002 Electricity and Magnetism

**(Student Option; Prereq: [2303 or 2601 or Chem 3501 or Chem 3502], two sems soph math)**

26930 001 LEC, 15:35-16:25 MWF, Tate Hall B45, In Person Term Based; Oriol Valls ; 4 cr.  
 26931 002 DIS, 15:35-16:25 Th, Tate Hall B55, In Person Term Based; 4 cr.  
 34670 003 DIS, 14:30-15:20 Th, Ford Hall 170, In Person Term Based; 4 cr.

### 4041 Computational Methods in the Physical Sciences

**(Student Option; Prereq: Upper div or grad student or instr consent)**

26422 001 LEC, 08:00-08:50 MTWTh, Tate Hall B85, In Person Term Based; Meets With: 001 AST 4041; Thomas Jones ; 4 cr.

### 4051 Methods of Experimental Physics I

**(Student Option; Prereq: concurrent registration is required (or allowed) in 2605 or equiv lab experience or instr consent)**

24167 001 LEC, 14:30-15:20 MWF, Tate Hall 101, In Person Term Based; E Dahlberg ; 5 cr.  
 24168 002 LAB, 10:10-12:05 MW, Tate Hall B30, In Person Term Based; 5 cr.  
 24169 003 LAB, 15:35-17:30 MW, Tate Hall B30, In Person Term Based; 5 cr.

24170 004 LAB, 09:05-11:00 TTh, Tate Hall B30, In Person Term Based; 5 cr.  
25455 005 LAB, 14:30-16:25 TTh, Tate Hall B30, In Person Term Based; 5 cr.

#### 4052W Methods of Experimental Physics II

(Student Option; Prereq: 4051W1)  
26730 002 LAB, 13:25-15:20 TTh, Lab TBA, In Person Term Based; 5 cr.  
26731 001 LEC, 09:05-09:55 MWF, Tate Hall B55, In Person Term Based; Roger Rusack; 5 cr.

#### 4101 Quantum Mechanics

(Student Option; Prereq: [2303 or 2601 or Chem 3502], two sems soph math)  
24171 001 LEC, 10:10-11:00 MWF, Tate Hall 101, In Person Term Based; Rafael Fernandes; 4 cr.  
24868 003 DIS, 10:10-11:00 T, Keller Hall 3-210, In Person Term Based; 4 cr.  
26133 004 DIS, 11:15-12:05 T, Tate Hall B55, In Person Term Based; Meets With: 005 PHYS 4101; Yusuf Buyukdag; 4 cr.  
26955 005 DIS, 11:15-12:05 T, Tate Hall B55, In Person Term Based; Meets With: 004 PHYS 4101; Yusuf Buyukdag; 4 cr.

#### 4201 Statistical and Thermal Physics

(Student Option; Prereq: 2601)  
24825 001 LEC, 11:15-12:05 MWF, Tate Hall B65, In Person Term Based; Vlad Pribiag; 3 cr.

#### 4501 Experimental Project

(Student Option; Prereq: 4052, instr consent)  
24172 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

#### 4511 Introduction to Nuclear and Particle Physics

(Student Option; Prereq: 4101)  
33321 100 LEC, 09:05-09:55 MWF, Physics & Nanotechnology 210, In Person Term Based; Priscilla Cushman; 3 cr.

#### 4611 Introduction to Space Physics

(Student Option; Prereq: [4001, 4002] or equiv or instr consent)  
34482 100 LEC, 12:20-14:15 MWF, Tate Hall B85, In Person Term Based; John Wygant; 3 cr.

#### 4623 Introduction to Modern Optics

(Student Option; )  
34514 100 LEC, 09:45-11:00 TTh, Tate Hall B45, In Person Term Based; Meets With: 001 EE 4623; Sudhakar Prasad; 3 cr.

#### 4950H Senior Thesis

(S-N or Audit; Prereq: instr consent)  
24877 001 IND, 00:00-00:00 , , In Person Term Based; 1-3 cr.

#### 4993 Directed Studies

(Student Option; Prereq: instr consent)  
25421 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

#### 4994 Directed Research

(Student Option; Prereq: instr consent)  
25422 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

#### 5001 Quantum Mechanics I

(Student Option; Prereq: 4101 or equiv or instr consent)  
24374 001 LEC, 09:05-09:55 MWF, Tate Hall 110, In Person Term Based; Natalia Perkins; 4 cr.  
26947 002 DIS, 08:00-08:50 T, Tate Hall B45, In Person Term Based; 4 cr.  
26948 003 DIS, 09:05-09:55 T, Tate Hall B85, In Person Term Based; 4 cr.

#### 5011 Classical Physics I

(Student Option; Prereq: 4001, 4002 or instr consent)  
24375 001 LEC, 10:10-11:00 MTFW, Tate Hall B65, In Person Term Based; Serge Rudaz; 4 cr.

#### 5022 Relativity, Cosmology, and the Universe

(Student Option; Prereq: 2601 or instr consent)  
34999 001 LEC, 14:30-16:25 MW, Tate Hall B85, In Person Term Based; Meets With: 001 AST 5022; Liliya Williams; 4 cr.

#### 5072 Best Practices in College Physics Teaching

(Student Option; )

25676 001 DIS, 13:00-14:00 M, Tate Hall 201-20, In Person Term Based; Gregory Pawloski; 1-3 cr.

#### 5201 Thermal and Statistical Physics

(A-F or Audit; Prereq: [[4101, 4201] or equiv] previous exposure to thermodynamics, introductory statistical physics)  
24866 001 LEC, 11:15-12:05 MWF, Tate Hall B85, In Person Term Based; Jorge Vinals; 3 cr.

#### 5950 Colloquium Seminar

(S-N or Audit; Prereq: [Grad student or advanced undergrad in physics], dept consent)  
24370 001 LEC, 15:35-16:45 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)  
25946 001 LEC, 15:35-16:25 F, Physics & Nanotechnology 120, In Person Term Based; 1-3 cr.

#### 5980 Introduction to Research Seminar

(S-N or Audit; Prereq: Grad or upper div phys major)  
24367 001 LEC, 16:40-17:30 F, Tate Hall 201-20, In Person Term Based; Aleksey Cheran; 1 cr.

#### 5993 Directed Studies

(Student Option; Prereq: instr consent, dept consent)  
24366 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.  
34543 002 IND, In Person Term Based; Jianping Wang; 1-5 cr.

#### 5994 Directed Research

(Student Option; Prereq: Jr, dept consent)  
24368 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.

### Physiology (PHSL)

#### 3051 Human Physiology

(Student Option; Prereq: [BIOL 1009 or 1 yr college bio], 1 yr college chem)  
27498 001 LEC, 10:10-11:00 MWF, 10 Church Street SE 100, In Person Term Based; Dalay Olson; 4 cr.  
27499 002 LAB, 08:00-09:55 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 004 PHSL 3051; Dalay Olson; 4 cr.  
27820 003 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 005 PHSL 3051; Dalay Olson; 4 cr.  
27828 004 LAB, 08:00-09:55 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 002 PHSL 3051; Dalay Olson; 4 cr.  
27858 005 LAB, 10:10-12:05 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 003 PHSL 3051; Dalay Olson; 4 cr.  
27924 006 LAB, 12:20-14:15 W, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 007 PHSL 3051; Dalay Olson; 4 cr.  
28083 007 LAB, 12:20-14:15 W, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 006 PHSL 3051; Dalay Olson; 4 cr.

#### 3061 Principles of Physiology

(Student Option; Prereq: 1 year college chem and physics and math through integral calculus)  
27495 001 LEC, 10:10-11:00 MWThF, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 5061002 PHSL 3061003 PHSL 3061; Steven Wu; 4 cr.  
27878 002 LEC, 10:10-11:00 MWThF, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 3061001 PHSL 5061003 PHSL 3061; Steven Wu; 4 cr.  
27944 003 LEC, 10:10-11:00 MWThF, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 3061001 PHSL 5061002 PHSL 3061; Steven Wu; 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(W))  
27879 001 IND, 10:10-11:00 T, Moos Health Sci Tower 2-530, Independent/Directed Study; Vincent Barnett; 1 cr.

#### 3095 Problems in Physiology

(Student Option; Prereq: concurrent registration is required (or allowed) in college physiology, instr consent)

27844 001 IND, 00:00-00:00 , , In Person Term Based; Vincent Barnett; 1-5 cr.

#### 3701 Physiology Laboratory

(A-F or Audit; Prereq: Physiology major)  
27800 001 LAB, 13:25-16:25 M, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 003 PHSL 3701; Paul Iaizzo; 2 cr.  
27801 002 LAB, 13:25-16:25 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 004 PHSL 3701; Paul Iaizzo; 2 cr.  
27945 003 LAB, 13:25-16:25 M, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 001 PHSL 3701; Paul Iaizzo; 2 cr.  
27946 004 LAB, 13:25-16:25 T, Moos Health Sci Tower 3-110, In Person Term Based; Meets With: 002 PHSL 3701; Paul Iaizzo; 2 cr.

#### 4095H Honors Problems in Physiology

(A-F or Audit; Prereq: 83061, physiology honors candidate, approval of director of undergrad studies in physiology.)  
27494 001 IND, 00:00-00:00 , , In Person Term Based; Vincent Barnett; 2-4 cr.

#### 4700 Cell Physiology

(A-F or Audit; Prereq: [3051 or 3061 or BIOL 3211], [CHEM 1022 or equiv], [MATH 1272 or equiv])  
28011 001 LEC, 10:40-11:30 MWF, Haecker Hall 205, Partially Online; Meets With: 001 ANSC 5700001 PHSL 5700; Scott O'Grady; 3 cr.

#### 4900 Advanced Physiology Teaching Laboratory

(A-F only; Prereq: [3051 or [3061, 3071]], instr consent)  
27947 001 LAB, 12:20-13:10 M, Moos Health Sci Tower 2-118, In Person Term Based; Lisa Anderson; 1-6 cr.

#### 5061 Principles of Physiology for Biomedical Engineering

(Student Option; Prereq: Biomedical engineering grad, one yr college chem and physics and math through integral calculus)  
27496 001 LEC, 10:10-11:00 MWThF, Keller Hall 3-210, In Person Term Based; Meets With: 001 PHSL 3061002 PHSL 3061003 PHSL 3061; Steven Wu; 4 cr.  
27837 883 LEC, 10:10-11:00 MWThF, ONLINE, Completely Online; Steven Wu; 4 cr.

#### 5094 Research in Physiology

(Student Option; Prereq: instr consent)  
27658 001 IND, 00:00-00:00 , , In Person Term Based; Vincent Barnett; 1-5 cr.  
27766 002 IND, 00:00-00:00 , , In Person Term Based; Stephen Katz; 1-5 cr.

#### 5095 Problems in Physiology

(Student Option; Prereq: instr consent)  
27497 001 IND, 00:00-00:00 , , In Person Term Based; 1-5 cr.  
27767 002 IND, 00:00-00:00 , , In Person Term Based; Stephen Katz; 1-5 cr.

#### 5096 Integrative Biology and Physiology Research Advances

(A-F only; Prereq: instr consent)  
28027 001 LEC, 12:00-13:00 Th, AHC ROOM TBA, In Person Term Based; DeWayne Townsend; 1 cr.

#### 5115 Clinical Physiology I

(A-F or Audit; Prereq: instr consent)  
27831 001 LEC, 13:25-16:25 F, Bruininks Hall 512A, In Person Term Based; Lisa Anderson; 3 cr.

#### 5700 Cell Physiology

(A-F only; Prereq: [Two semesters of physics/chemistry, calculus, one semester of systems-level physiology] or instr consent)  
27932 001 LEC, 10:40-11:30 MWF, Haecker Hall 205, Partially Online; Meets With: 001 ANSC 5700001 PHSL 4700; Scott O'Grady; 4 cr.  
27933 002 DIS, 00:00-00:00 , , In Person Term Based; Scott O'Grady; 4 cr.

#### 5701 Physiology Laboratory

(A-F or Audit; Prereq: instr consent)  
27802 001 LAB, 00:00-00:00 , , In Person Term Based; Stephen Katz; 1-2 cr.

### Plant Pathology (PLPA)











34935 001 IND, In Person Term Based; Harry Boyte ; 1-3 cr.

#### 4101 Nonprofit Management and Governance (Student Option; )

23918 001 LEC, 16:40-19:25 T, Hubert H. Humphrey School 15, In Person Term Based; Stephanie Jacobs ; 3 cr.

#### 4200 Urban and Regional Planning (Student Option; )

23911 001 LEC, 16:00-17:15 TTh, Hubert H. Humphrey School 60, In Person Term Based; Frank Douma ; 3 cr.

#### 5002 Introduction to Policy Analysis (A-F or Audit; )

23912 001 LEC, 18:00-20:45 T, Carlson School of Mgmt 2-233, In Person Term Based; Robert Kudrle ; 1.5 cr.  
23949 002 LEC, 18:00-20:45 M, Carlson School of Mgmt 1-127, In Person Term Based; Samuel Myers ; 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)  
23898 001 LEC, 18:00-20:45 W, Hubert H. Humphrey School 25, In Person Term Based; Zhirong Zhao ; 1.5 cr.  
23899 002 LEC, 18:00-20:45 T, Blegen Hall 425, In Person Term Based; Zhirong Zhao ; 1.5 cr.

#### 5004 Introduction to Planning

(A-F or Audit; Prereq: Major/minor in urban/regional planning or instr consent)  
23897 001 LEC, 09:45-11:00 MW, Blegen Hall 130, In Person Term Based; Ryan Allen ; 3 cr.

#### 5011 Management of Organizations

(A-F or Audit; )  
23895 001 LEC, 14:30-15:45 TTh, Hubert H. Humphrey School 25, In Person Term Based; Carrie Oelberger ; 3 cr.

#### 5012 The Politics of Public Affairs

(A-F or Audit; )  
23925 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey School 20, In Person Term Based; James Ron ; 3 cr.  
32999 002 LEC, 18:00-20:45 M, Hubert H. Humphrey School 25, In Person Term Based; Henriët Hendriks ; 3 cr.

#### 5013 Law and Urban Land Use

(A-F or Audit; Prereq: Major or minor in urban/regional planning or instr consent)  
23894 001 LEC, 18:00-20:45 T, Blegen Hall 215, In Person Term Based; Jean Coleman ; 1.5 cr.

#### 5021 Microeconomics for Policy Analysis (A-F or Audit; )

23914 003 LEC, 09:45-11:00 MW, Carlson School of Mgmt L-118, In Person Term Based; Maria Hanratty ; 3 cr.  
23915 004 LAB, 11:15-12:05 F, Hubert H. Humphrey School 15, In Person Term Based; Maria Hanratty ; 3 cr.  
23950 001 LEC, 09:45-11:00 MW, Blegen Hall 415, In Person Term Based; Angie Fertig ; 3 cr.  
23951 002 LAB, 12:45-13:35 F, Hubert H. Humphrey School 15, In Person Term Based; Angie Fertig ; 3 cr.

#### 5031 Statistics for Public Affairs

(A-F or Audit; )  
23891 001 LEC, 11:15-12:30 TTh, Blegen Hall 155, In Person Term Based; Angie Fertig ; 4 cr.  
23892 002 LAB, 09:45-11:00 F, Hubert H. Humphrey School 85, In Person Term Based; Angie Fertig ; 4 cr.  
23893 003 LAB, 14:15-15:30 F, Hubert H. Humphrey School 85, In Person Term Based; Angie Fertig ; 4 cr.  
24005 004 LEC, 11:15-12:30 TTh, Hubert H. Humphrey School 25, In Person Term Based; Deborah Levison ; 4 cr.  
32983 005 LAB, 11:15-12:30 F, Hubert H. Humphrey School 85, In Person Term Based; Deborah Levison ; 4 cr.  
32984 006 LAB, 12:45-14:00 F, Hubert H. Humphrey School 85, In Person Term Based; Deborah Levison ; 4 cr.

#### 5041 Qualitative Methods for Policy Analysts (A-F only; )

23928 001 LEC, 16:00-17:15 TTh, Blegen Hall 317, 14:30-15:45 W, Blegen Hall 317, 14:30-15:45 W, Blegen Hall 317, 14:30-15:45 W, Blegen Hall 317, In Person Term Based; Greta Friedemann-Sanchez ; 4 cr.  
23929 002 LAB, 14:30-15:45 W, Hubert H. Humphrey School 85, 14:30-15:45 W, Hubert H. Humphrey School 85, 14:30-15:45 W, Hubert H. Humphrey School 85, In Person Term Based; Greta Friedemann-Sanchez ; 4 cr.

#### 5045 Statistics for Public Affairs, Accelerated (A-F or Audit; )

24010 001 LEC, 09:45-11:00 F, Hubert H. Humphrey School 25, 11:15-12:30 TTh, Hubert H. Humphrey School 35, In Person Term Based; Gabriel Chan ; 4 cr.  
24011 002 LAB, 08:15-09:30 F, Hubert H. Humphrey School 85, In Person Term Based; Gabriel Chan ; 4 cr.

#### 5051 Public Affairs Leadership I

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5051-5052 must be taken in same academic yr)  
23931 001 LEC, 08:30-16:30 WThFSa, 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, 08:30-16:30 Sa, Hubert H. Humphrey School 180, Partially Online; Kevin Gerdes, Angie Fertig, Kathy Quick ; 2 cr.

#### 5053 Policy Analysis in Public Affairs

(A-F only; Prereq: Major in public affairs (cohort) or public affairs certificate (cohort); 5053-5054 must be taken in same academic yr)  
23932 001 LEC, Partially Online; Kathy Quick, Angie Fertig, Kevin Gerdes ; 2 cr.

#### 5055 Qualitative 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])  
23933 001 LAB, Partially Online; Kevin Gerdes, Kathy Quick, Angie Fertig ; 2 cr.

#### 5080 Capstone Preparation Workshop

(S-N only; )  
23974 002 LEC, In Person Term Based; Robert Kudrle, Mary Curtin ; 1 cr.

#### 5081 Working in Teams: Crossing Disciplines and Learning from Difference (S-N only; Prereq: Major in development practice, public affairs, public policy, urban and regional planning, or sci, tech, and environ policy)

23943 001 LEC, 08:30-17:00 F, Blegen Hall 235, In Person Term Based; Laura Bloomberg, Steph Eiden ; 0.5 cr.  
23944 002 LEC, 08:30-17:00 Sa, Blegen Hall 235, In Person Term Based; Laura Bloomberg, Steph Eiden ; 0.5 cr.

#### 5101 Management and Governance of Nonprofit Organizations (Student Option; Prereq: Grad student or instr consent)

23989 001 LEC, 17:45-20:30 Th, Hubert H. Humphrey School 25, In Person Term Based; Michael Wirth-Davis ; 3 cr.

#### 5105 Integrative Leadership: Leading Across Sectors to Address Grand Challenges (Student Option No Audit; )

32989 001 LEC, 18:00-20:45 Th, Blegen Hall 317, 18:00-20:45 Th, Carlson School of Mgmt 1-149, In Person Term Based; Meets With: 001 LAW 6623001 PUBH 6702001 OLPD 6402060 MGMT 6402; Kathy Quick, Vanessa Laird, Mary Butler ; 3 cr.

#### 5108 Board leadership development

(S-N only; Prereq: Grad student or instr consent)  
23941 001 LEC, 09:00-16:30 Sa, Carlson School of Mgmt 1-122, 09:00-11:00 F, Carlson School of Mgmt 1-122, 09:00-11:00 F, Carlson School of Mgmt 1-122, 09:00-11:00 F, Carlson School of Mgmt 1-122, In Person Term Based; Kathryn Barr ; 1 cr.

#### 5135 Managing Conflict: Negotiation (Student Option; )

23963 001 LEC, 18:00-20:45 M, Hubert H. Humphrey School 15, In Person Term Based; Margaret Anderson Kelliher ; 3 cr.

#### 5151 Organizational Perspectives on Global Development & Humanitarian Assistance (A-F only; )

33064 001 LEC, 13:00-14:15 TTh, Hubert H. Humphrey School 25, In Person Term Based; Meets With: 001 PA 8151; Carrie Oelberger ; 3 cr.

#### 5161 Human-Centered Service Redesign (A-F or Audit; )

23976 001 LEC, 08:30-12:00 FSa, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, 08:30-12:00 F, Hubert H. Humphrey School 35, In Person Term Based; Jodi Sandfort, Sook Jin Ong ; 3 cr.

#### 5190 Topics in Public and Nonprofit Leadership and Management (Student Option; )

32854 001 LEC, 09:00-16:30 ThFSa, Hubert H. Humphrey School 30, In Person Term Based; Melissa Stone ; 1-3 cr.

#### 5205 Statistics for Planning

(A-F only; )  
24012 001 LEC, 11:15-12:30 TTh, Blegen Hall 110, In Person Term Based; Jason Cao ; 4 cr.  
24013 002 LAB, 13:00-14:15 Th, Hubert H. Humphrey School 85, In Person Term Based; Jason Cao ; 4 cr.  
24014 003 LAB, 14:30-15:45 T, Hubert H. Humphrey School 35, In Person Term Based; Jason Cao ; 4 cr.

#### 5211 Land Use Planning

(A-F only; Prereq: Major or minor in urban/regional planning or instr consent)  
23922 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 15, In Person Term Based; Fernando Burga ; 3 cr.

#### 5231 Transit Planning and Management

(Student Option; Prereq: Grad student or instr consent)  
23896 001 LEC, 18:00-20:45 Th, Hubert H. Humphrey School 60, In Person Term Based; Meets With: 001 CEGE 5213; Jason Cao ; 3 cr.

#### 5251 Strategic Planning and Management (Student Option No Audit; )

23935 001 LEC, 18:00-20:45 T, Hubert H. Humphrey School 50B, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 50B, 18:00-20:45 T, Hubert H. Humphrey School 35, 18:00-20:45 T, Hubert H. Humphrey School 50B, In Person Term Based; John Bryson ; 3 cr.

#### 5262 Neighborhood Revitalization Theories and Strategies (Student Option No Audit; )

34069 001 LEC, 16:00-17:15 MW, Hubert H. Humphrey School 184, In Person Term Based; William Delaney, Shannon Jones ; 3 cr.

#### 5271 Geographic Information Systems: Applications in Planning and Policy Analysis

(Student Option; Prereq: Major in urban/regional planning or instr consent)  
23921 001 LAB, 18:00-20:45 W, Hubert H. Humphrey School 85, In Person Term Based; Geoffrey Maas ; 3 cr.

#### 5290 Topics in Planning

(Student Option; )  
33212 003 LEC, 16:00-17:15 TTh, Hubert H. Humphrey School 35, In Person Term Based; Fayola Jacobs ; 0.5-4 cr.  
33337 001 LEC, 09:00-11:45 F, Hubert H. Humphrey School 30, 09:00-11:45 F, Hubert H. Humphrey School 30, In Person Term Based; Peter Brown ; 0.5-4 cr.

#### 5301 Population Methods & Issues for the United States & Global South

(Student Option; Prereq: Grad student or instr consent)  
23999 001 LEC, 08:15-09:30 TTh, Hubert H. Humphrey School 35, In Person Term Based; J. David Hacker ; 3 cr.

#### 5311 Program Evaluation

(Student Option; Prereq: Grad student or instr consent)  
23992 001 LEC, 08:00-11:00 M, Hubert H. Humphrey School 35, 08:00-11:00 M, Hubert H. Humphrey School 35, 08:00-11:00 M, Hubert H. Humphrey School 35, 08:00-11:00 M, Hubert H. Humphrey School 35, 08:00-11:00 M, Hubert H. Humphrey School 35, 08:00-11:00 M, Hubert H. Humphrey School 35, Partially Online; Pete Bernardy ; 3 cr.

#### 5401 Poverty, Inequality, and Public Policy (Student Option; Prereq: Grad or instr consent)

23923 001 LEC, 16:35-17:50 MW, Carlson School of Mgmt 2-219, In Person Term Based; Maria Hanratty ; 3 cr.



35612 001 IND, In Person Term Based; 1-3 cr.

### 3202 What is Public Health?

(Student Option No Audit; )  
29355 320 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Ruby Nguyen ; 2 cr.

### 3350 Epidemiology: People, Places, and Disease

(Student Option; Prereq: Undergrad statistics course is recommended)  
29567 001 LEC, 15:35-17:30 Th, Mayo Bldg & Additions  
3-125, In Person Term Based; Ruby Nguyen ; 2 cr.

### 3365 Microbes, Maps and Models: Introduction to Infectious Disease Epidemiologic Methods

(Student Option; )  
31250 001 LEC, 09:05-11:00 Th, Moos Health Sci Tower  
2-120, In Person Term Based; Shalini Kulasingam ; 2 cr.

### 3415 Introduction to Clinical Trials - Online

(A-F only; Prereq: PUBH 3415 enrollees must have one semester of undergraduate level introductory biostatistics or statistics (STAT 3011, EPSY 3264, SOC 3811, BIOL 3272, or instr consent) AND junior or senior standing or instr consent.)  
29539 320 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Ann Brearley, Andrew Mugglin ; 3 cr.

### 3801 Health Economics and Policy

(Student Option; Prereq: Course on microeconomics, course on basic statistics)  
29597 101 LEC, 11:15-12:30 TTh, Mayo Bldg & Additions  
C231, Partially Online; Eric Christensen, Caroline Carlin ;  
3 cr.

### 3905 Nutrition for Public Health Promotion and Disease Prevention

(Student Option; Prereq: Jr or sr or instr consent)  
29316 001 LEC, 15:35-17:30 M, Mayo Bldg & Additions  
D325, In Person Term Based; Meets With: 001 PUBH  
6905; Lyn Steffen ; 2 cr.

### 3950 From Kid to Community: Personal, Social and Environmental Influences on Youth Obesity

(Student Option; Prereq: Students should have completed one basic, introductory nutrition course or equivalent or permission by instructor)  
29541 320 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Meets With: 320 PUBH 6950; Nicole Larson ; 2 cr.

### 5231 Emergency Preparedness: A Public Health Perspective

(A-F only; Prereq: Upper-level undergraduate students and grad/professional students in academic health sciences and fields related to public health emergency preparedness, response, and recovery. Credit will be not granted if student has completed the PubH 5230 topic course with same title.)  
29560 320 IND, 00:00-00:00 , ONLINE, Completely Online;  
Amy Kircher ; 2 cr.

## Recreation Administration (REC)

### 3281 Research and Evaluation in Recreation Administration

(A-F only; Prereq: Rec major or instr consent)  
15347 001 LEC, 12:20-14:05 MW, Rapson Hall 58, In Person  
Term Based; Jon Oyanagi ; 4 cr.

### 3321 Outdoor Recreation 3-Season Skills

(A-F only; Prereq: Student will not receive credit if they have previously taken REC 4900/5900 - Special Topics with this topic title)  
16304 001 LEC, 09:00-15:00 F, Cooke Hall 20, 09:00-15:00  
F, Cooke Hall 20, 09:00-17:00 F, Cooke Hall 20,  
09:00-17:00 F, Cooke Hall 20, 09:00-17:00 FSa, Cooke  
Hall 20, 09:00-11:00 F, Cooke Hall 20, In Person Term  
Based; Bryan Karban ; 3 cr.

### 3541W Recreation Programming

(A-F only; Prereq: REC major or instr consentWI)  
16735 002 LEC, 13:00-14:15 TTh, Akerman Hall 215, In  
Person Term Based; Jared Flewellen ; 3 cr.

### 3601W Leisure and Human Development

(A-F only; Prereq: REC major or instr consentWI)

16540 001 DIS, Completely Online; Connie Magnuson ; 3 cr.

### 3796 Senior Internship in Recreation

**Administration**  
(S-N only; Prereq: Rec major, completion of most core  
courses, sr, instr consent)  
15349 001 FWK, 00:00-00:00 , In Person Term Based;  
Connie Magnuson ; 3-9 cr.

### 3993 Directed Study in Recreation

**Administration**  
(A-F only; Prereq: Rec major, instr consent)  
15428 006 IND, 00:00-00:00 , In Person Term Based;  
Connie Magnuson ; 1-9 cr.

### 4271 Community Leisure Services for Persons with Disabilities

(A-F only; Prereq: REC major or instr consent)  
15333 001 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Connie Magnuson ; 3 cr.

## Rehabilitation Science (RSC)

### 5101 Mathematical Tools for Research Applications in Health, Rehab, and Human Movement Sciences

(A-F or Audit; Prereq: Basic algebra, trigonometry, and  
geometry. Pre-calculus or calculus is helpful but not  
required.)  
28025 001 LEC, 00:00-00:00 , ONLINE, Completely Online;  
Paula Ludewig ; 1 cr.

### 5106 Introduction to Rehabilitation Science

(A-F or Audit; )  
28369 001 DIS, 14:30-15:20 W, AHC ROOM TBA, In Person  
Term Based; Arin Ellingson, LeAnn Snow ; 1 cr.

### 5135 Advanced Biomechanics I: Kinematics

(A-F or Audit; Prereq: instr consent)  
28370 001 LAB, 14:30-17:30 M, AHC ROOM TBA, In Person  
Term Based; Meets With: 001 RSC 8135; Justin Staker ; 3  
cr.

### 5231 Clinical Biomechanics

(A-F only; Prereq: concurrent registration is required  
(or allowed) in PT 6231, general physics, [intro or  
short] calculus, anatomy; intensive anatomy course in  
human cadaver dissection recommended)  
28004 001 LEC, 08:00-09:55 MWF, Mayo Bldg & Additions  
3-125, In Person Term Based; Meets With: 001 PT 6231;  
Ward Glasoe, Paula Ludewig, Arin Ellingson ; 2-5 cr.

### 5281 Scientific Foundations: Exercise Theory

(A-F only; Prereq: Rehabilitation Science grad student)  
28071 001 DIS, 10:10-12:05 TTh, Mayo Bldg & Additions  
3-125, In Person Term Based; Meets With: 001 PT 6281;  
LeAnn Snow, Cory Baumann ; 4 cr.

### 5294 Independent Study in Rehabilitation Science

(Student Option; Prereq: Rehabilitation science  
student or program approval)  
27501 001 IND, 00:00-00:00 , In Person Term Based; Paula  
Ludewig ; 1-3 cr.

27853 002 IND, 00:00-00:00 , In Person Term Based;  
Brendan Dougherty ; 1-3 cr.

27854 003 IND, 00:00-00:00 , In Person Term Based;  
Bernadette Gillick ; 1-3 cr.

27855 004 IND, 00:00-00:00 , In Person Term Based; John  
Ferguson ; 1-3 cr.

27856 005 IND, 00:00-00:00 , In Person Term Based;  
Patricia Schaber ; 1-3 cr.

27857 006 IND, 00:00-00:00 , In Person Term Based; Dawn  
Lowe ; 1-3 cr.

27883 007 IND, 00:00-00:00 , In Person Term Based; Virgil  
Mathiowetz ; 1-3 cr.

27919 008 IND, 00:00-00:00 , In Person Term Based;  
LeAnn Snow ; 1-3 cr.

27923 009 IND, 00:00-00:00 , In Person Term Based; Justin  
Staker ; 1-3 cr.

27925 010 IND, 00:00-00:00 , In Person Term Based;  
Peggy Martin ; 1-3 cr.

28017 011 IND, 00:00-00:00 , In Person Term Based;  
Andrew Hansen ; 1-3 cr.

28087 012 IND, 00:00-00:00 , In Person Term Based; Ann  
Van de Winkel ; 1-3 cr.

28088 013 IND, 00:00-00:00 , In Person Term Based; 1-3  
cr.

28130 014 IND, 00:00-00:00 , In Person Term Based;  
Manda Keller-Ross ; 1-3 cr.

28131 015 IND, 00:00-00:00 , In Person Term Based; Arin  
Ellingson ; 1-3 cr.

28145 016 IND, In Person Term Based; Corey McGee ; 1-3  
cr.

28149 017 IND, In Person Term Based; Michael Potegal ; 1-3  
cr.

### 5306 Scientific and Professional

#### Presentation

(A-F or Audit; )  
34031 001 DIS, 15:35-16:25 W, AHC ROOM TBA, In Person  
Term Based; Dawn Lowe ; 1 cr.

## Religious Studies (RELS)

### 1002 Contemporary Issues in Religion, Culture, and Society: An Introduction to Religion

(Student Option; AH)  
21020 001 LEC, 16:00-17:30 MW, Folwell Hall 108, In  
Person Term Based; Jeanne Kilde ; 3 cr.

### 1034 Introduction to Jewish History and Cultures

(Student Option; HIS)  
19525 001 DIS, 13:00-14:15 WF, Nicholson Hall 125, In  
Person Term Based; Meets With: 001 JWST 1034001  
JWST 3034001 RELS 3034001 HIST 1534001 HIST 3534;  
Natan Paradise ; 3 cr.

### 1201 Bible:Context & Interpretation

(Student Option; Prereq: Knowledge of Hebrew not  
requiredLITR)  
18896 001 LEC, 13:00-14:15 TTh, Nicholson Hall 275, In  
Person Term Based; Meets With: 001 RELS 3201001  
JWST 1201001 JWST 3201001 CNES 1201001 CNES  
3201; Hanne Levinson ; 3 cr.

### 1544W Martyrs, Monks, Crusaders: World Christianity, 100-1400

(Student Option; GP,WI,HIS)  
34283 001 LEC, 11:15-12:05 MWF, West Bank Skyway 20,  
11:15-12:05 F, Blegen Hall 225, 11:15-12:05 F, Blegen  
Hall 215, 11:15-12:05 F, Blegen Hall 220, 11:15-12:05 F,  
Blegen Hall 205, In Person Term Based; Meets With: 001  
HIST 3081W001 HIST 1081W001 RELS 3544W001 MEST  
3081W001 MEST 1081W; Andrea Sterk ; 3 cr.

### 3013W Biblical Law and Jewish Ethics

(Student Option; WI)  
33523 001 LEC, 14:30-15:45 TTh, Nicholson Hall 115, In  
Person Term Based; Meets With: 001 RELS 5013W001  
JWST 3013W001 JWST 5013W001 LAW 6916; Bernard  
Levinson ; 3 cr.

### 3034 Introduction to Jewish History and Cultures

(Student Option; HIS)  
19526 001 DIS, 13:00-14:15 WF, Nicholson Hall 125, In  
Person Term Based; Meets With: 001 JWST 1034001  
JWST 3034001 RELS 1034001 HIST 1534001 HIST 3534;  
Natan Paradise ; 3 cr.

### 3121 Gender and Body in Early Christianity

(Student Option; AH)  
33747 001 LEC, 09:45-11:00 WF, Appleby Hall 219, In  
Person Term Based; Meets With: 001 CNES 3121001  
CNES 5121001 RELS 5121; Stephen Ahearn-Kroll ; 3 cr.

### 3201 Bible:Context & Interpretation

(Student Option; Prereq: Knowledge of Hebrew not  
requiredLITR)  
18897 001 LEC, 13:00-14:15 TTh, Nicholson Hall 275, In  
Person Term Based; Meets With: 001 RELS 1201001  
JWST 1201001 JWST 3201001 CNES 1201001 CNES  
3201; Hanne Levinson ; 3 cr.

### 3321 American Indian Philosophies

(Student Option; AH,DSJ)  
19169 002 LEC, 09:45-11:00 MW, Scott Hall 4, In Person  
Term Based; Meets With: 002 AMIN 3301; Alex Ghebregzi ;  
3 cr.

### 3374 Introduction to Japanese Religions

(Student Option; )  
33989 001 LEC, 11:15-12:30 TTh, Nicholson Hall 125, In  
Person Term Based; Meets With: 001 ALL 3471; Paul  
Rouzer ; 3 cr.

**3544W Martyrs, Monks, Crusaders: World Christianity, 100-1400**

(Student Option; GP,WI,HIS)  
33751 001 LEC, 11:15-12:05 MWF, West Bank Skyway 20, 11:15-12:05 F, Blegen Hall 225, 11:15-12:05 F, Blegen Hall 215, 11:15-12:05 F, Blegen Hall 220, 11:15-12:05 F, Blegen Hall 205, In Person Term Based; Meets With: 001 HIST 3081W001 HIST 1081W001 RELS 1544W001 MEST 3081W001 MEST 1081W; Andrea Sterk ; 3 cr.

**3609 Medieval Art**

(Student Option; AH)  
33947 001 LEC, 13:00-14:15 MW, Blegen Hall 145, In Person Term Based; Meets With: 001 ARTH 3009001 MEST 3009; Jennifer Awes-Freeman ; 3 cr.

**3623 Religion and the American Culture Wars**

(Student Option; HIS)  
33750 001 LEC, 11:15-12:30 TTh, Blegen Hall 240, In Person Term Based; Meets With: 001 HIST 3804; Kirsten Fischer ; 3 cr.

**3627 The End of the World in Literature and History**

(Student Option; HIS)  
34578 001 DIS, 09:45-11:00 TTh, Carlson School of Mgmt L-118, In Person Term Based; Meets With: 001 ENGL 3025; John Watkins ; 3 cr.

**3631 Islam in America: A History of the Present**

(A-F or Audit; )  
33937 001 DIS, 17:30-20:00 W, Blegen Hall 260, In Person Term Based; Meets With: 001 ANTH 3631; Aisha Ghani ; 3 cr.

**3671 Hinduism**

(Student Option; )  
33749 001 LEC, 11:15-12:30 MW, Blegen Hall 110, In Person Term Based; Meets With: 001 HIST 3492; Ajay Skaria ; 3 cr.

**3708 The Cultures of the Silk Road**

(Student Option; )  
19884 001 LEC, 09:05-09:55 MWF, Blegen Hall 220, In Person Term Based; Meets With: 001 HIST 3504001 ALL 3872; Iraj Bashiri ; 3 cr.

**3711 The Islamic World**

(Student Option; GP,SOCS)  
21389 001 LEC, 17:00-19:30 W, Blegen Hall 230, In Person Term Based; Meets With: 001 GEOG 3145001 GLOS 3645; Abdi Samatar ; 3 cr.

**3712 Islam: Religion and Culture**

(Student Option; Prereq: Soph or Jr or sr)  
21021 001 LEC, 17:30-20:00 T, Folwell Hall 28, In Person Term Based; Meets With: 001 HIST 3493; Nabil Matar ; 3 cr.

**3715 History of the Crusades**

(Student Option; GP,HIS)  
19508 001 LEC, 09:45-11:00 TTh, Blegen Hall 140, In Person Term Based; Meets With: 001 HIST 3613001 MEST 3613; Kathryn Reyerson ; 3 cr.

**3722 The Ottoman Empire**

(Student Option; GP,HIS)  
34287 001 LEC, 14:30-15:45 MW, Blegen Hall 230, In Person Term Based; Meets With: 001 HIST 3547; Fikri Cicek ; 3 cr.

**3896 Internship in Religion, Society, and Culture**

(Student Option; )  
33939 001 IND, In Person Term Based; Jeanne Kilde ; 1-4 cr.

**3993 Directed Studies**

(Student Option; )  
17181 001 IND, 00:00-00:00 , In Person Term Based; Jeanne Kilde ; 1-4 cr.  
35593 002 IND, In Person Term Based; JB Shank ; 1-4 cr.

**4952 Capstone**

(A-F or Audit; Prereq: Limited to RELS majors and second semester junior and seniors. Please see director of Undergraduate Studies for permission.)  
19554 001 IND, 00:00-00:00 , In Person Term Based; Iraj Bashiri ; 1-4 cr.  
19555 002 IND, 00:00-00:00 , In Person Term Based; Penny Edgell ; 1-4 cr.

19556 003 IND, 00:00-00:00 , In Person Term Based; Jeanne Kilde ; 1-4 cr.  
19557 004 IND, 00:00-00:00 , In Person Term Based; Nabil Matar ; 1-4 cr.  
19558 005 IND, 00:00-00:00 , In Person Term Based; Oliver Nicholson ; 1-4 cr.  
19559 006 IND, 00:00-00:00 , In Person Term Based; Melissa Sellow ; 1-4 cr.  
19560 007 IND, 00:00-00:00 , In Person Term Based; Katharine Gerbner ; 1-4 cr.  
21542 008 IND, In Person Term Based; Paul Rouzer ; 1-4 cr.  
35624 009 IND, In Person Term Based; Hanne Levinson ; 1-4 cr.

**5013W Biblical Law and Jewish Ethics**

(Student Option; WI)  
33522 001 LEC, 14:30-15:45 TTh, Nicholson Hall 115, In Person Term Based; Meets With: 001 RELS 3013W001 JWST 3013W001 JWST 5013W001 LAW 6916; Bernard Levinson ; 3 cr.

**5121 Gender and Body in Early Christianity**

(Student Option; AH)  
33996 001 LEC, 09:45-11:00 WF, Appleby Hall 219, In Person Term Based; Meets With: 001 CNES 3121001 RELS 3121001 CNES 5121; Stephen Ahearne-Kroll ; 3 cr.

**5993 Directed Studies**

(Student Option; Prereq: instr consent)  
18454 001 IND, 00:00-00:00 , In Person Term Based; Jeanne Kilde ; 1-4 cr.

**Retail Merchandising (RM)****1201 Fashion, Ethics, and Consumption**

(Student Option; CIV)  
14452 001 LEC, 15:00-16:15 TTh, McNeal Hall 33, In Person Term Based; Naeun Kim ; 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)  
14312 001 FWK, Independent/Directed Study; Elizabeth Bye ; 1-4 cr.  
14313 002 FWK, Independent/Directed Study; Hye-Young Kim ; 1-4 cr.  
14314 003 FWK, Independent/Directed Study; Juanjuan Wu ; 1-4 cr.  
14493 004 FWK, In Person Term Based; Hyunjoo Im ; 1-4 cr.  
34608 005 FWK, In Person Term Based; Peggy Lord ; 1-4 cr.

**2215 Introduction to Retail Merchandising**

(A-F or Audit; )  
14315 001 LEC, 11:45-13:00 TTh, McNeal Hall 33, In Person Term Based; Peggy Lord ; 3 cr.  
14550 002 LEC, 00:00-00:00 , ONLINE, Completely Online; Peggy Lord ; 3 cr.

**2234 Retailing in a Digital Age**

(A-F only; TS)  
14571 001 LEC, Completely Online; Hye-Young Kim ; 3 cr.

**3124 Consumers of Design**

(A-F only; Prereq: retail merchandising major or minor)  
14540 001 DIS, 11:45-13:00 TTh, Ruttan Hall B35, In Person Term Based; Jaye Thompson ; 3 cr.

**3170 Topics in Retail Merchandising**

(A-F or Audit; )  
34455 001 LEC, 13:00-15:00 Th, McNeal Hall 250, 09:00-17:00 F, McNeal Hall 395, 09:00-11:30 Sa, McNeal Hall 395, In Person Term Based; Meets With: 001 APST 5170; Juanjuan Wu, Marilyn DeLong ; 1-4 cr.

**3201 Career and Internship Preparation for Retail Merchandising**

(A-F only; Prereq: Retail merchandising major)  
14253 001 LEC, 09:35-10:25 W, Ruttan Hall B22, In Person Term Based; Dana Rechtzigel ; 1 cr.  
14611 002 LEC, 15:00-15:50 W, McNeal Hall 395, In Person Term Based; 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)  
14212 001 DIS, 13:30-14:45 TTh, Ruttan Hall B25, Partially Online; Jaye Thompson ; 3 cr.

**3243 Visual Merchandising**

(A-F or Audit; Prereq: 2215, [DHA major or minor or instr consent])  
14472 001 LEC, 11:45-14:45 W, McNeal Hall 305, In Person Term Based; Juanjuan Wu ; 3 cr.

**4117W Retail Environments and Human Behavior**

(A-F only; Prereq: 2215 or DHA 2215, [jr or sr or grad student], [design major or minor or instr consent][WI])  
14575 001 DIS, Completely Online; Bo Ra Joo ; 3 cr.  
34747 002 DIS, Completely Online; Kathryn Reiley ; 3 cr.

**4123 Living in a Retailer Society**

(A-F only; Prereq: Sr, retail merchandising major or minor)  
33931 001 LEC, 10:15-11:30 TTh, McNeal Hall 10, In Person Term Based; Alanna Norton ; 3 cr.

**4160H Honors Capstone Project**

(A-F only; Prereq: Retail merchandising honors)  
14441 002 LEC, Independent/Directed Study; Hye-Young Kim ; 2 cr.  
14442 003 LEC, Independent/Directed Study; Juanjuan Wu ; 2 cr.  
14492 004 LEC, Independent/Directed Study; Hyunjoo Im ; 2 cr.

**4193 Directed Study in Retail Merchandising**

(A-F or Audit; Prereq: Undergrad, instr consent)  
14317 002 IND, Independent/Directed Study; Hye-Young Kim ; 1-4 cr.  
14318 003 IND, Independent/Directed Study; Juanjuan Wu ; 1-4 cr.  
14494 001 IND, Independent/Directed Study; Hyunjoo Im ; 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)  
14320 002 FWK, Independent/Directed Study; Hye-Young Kim ; 1-2 cr.  
14321 003 FWK, Independent/Directed Study; Juanjuan Wu ; 1-2 cr.  
14495 004 FWK, Independent/Directed Study; Hyunjoo Im ; 1-2 cr.  
14558 001 FWK, In Person Term Based; Elizabeth Bye ; 1-2 cr.  
34392 005 FWK, Independent/Directed Study; Peggy Lord ; 1-2 cr.

**4212W Dress, Society, and Culture**

(A-F or Audit; Prereq: [Jr or sr or grad student], [design major or minor or instr consent][WI])  
14546 001 LEC, 10:15-11:30 MW, Kaufert Laboratory 302, In Person Term Based; Heejin Lim ; 3 cr.

**4216 Retail Promotions**

(A-F or Audit; Prereq: 2215, [jr or sr or grad student], [DHA major or minor or instr consent])  
14264 001 LEC, 08:45-10:00 TTh, McNeal Hall 144, In Person Term Based; Hyunjoo Im ; 3 cr.  
14613 002 LEC, 08:45-10:00 TTh, McNeal Hall 146, In Person Term Based; Kathryn Reiley ; 3 cr.

**4248 Creative Leadership in Retailing**

(A-F only; )  
14572 001 LEC, 15:00-16:15 TTh, Ruttan Hall 143, In Person Term Based; Jaye Thompson ; 3 cr.

**Russian (RUSS)****1101 Beginning Russian I**

(Student Option; )  
17089 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 RUSS 4101; Erik McDonald ; 5 cr.  
17090 002 DIS, 12:20-13:10 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 RUSS 4101; Nadya Clayton ; 5 cr.  
17091 003 DIS, 13:25-14:15 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 003 RUSS 4101; Erik McDonald ; 5 cr.  
17819 004 DIS, 17:30-19:35 TTh, Folwell Hall 120, In Person Term Based; Meets With: 004 RUSS 4101; Gary Jahn ; 5 cr.

**3001 Intermediate Russian I**

**(Student Option; Prereq: 1102 or instr consent)**  
18879 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 RUSS 4103; Erik McDonald ; 5 cr.  
18880 002 DIS, 18:00-20:05 MW, Folwell Hall 105, In Person Term Based; Meets With: 002 RUSS 4103; Yana Taets ; 5 cr.

### 3101 Advanced Russian I

**(Student Option; Prereq: 3002 or 4104 or instr consent)**  
17050 001 DIS, 14:30-15:20 MTWTh, Folwell Hall 18, In Person Term Based; Meets With: 001 RUSS 4111; Nadya Clayton ; 4 cr.

### 3311V Honors Major Project in Russian

**(A-F only; Prereq: Advanced Russian majorWI)**  
17736 001 IND, 00:00-00:00 , , In Person Term Based; Gary Jahn ; 3-4 cr.

### 3311W Russian Major Project

**(A-F or Audit; Prereq: Advanced Russian majorWI)**  
17502 001 IND, 00:00-00:00 , , In Person Term Based; Gary Jahn ; 3 cr.  
20325 002 IND, In Person Term Based; Nadya Clayton ; 3 cr.  
20326 003 IND, In Person Term Based; Erik McDonald ; 3 cr.

### 3421 Literature: Middle Ages to Dostoevsky in Translation

**(Student Option; LITR)**  
16891 001 LEC, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 RUSS 5421; Gary Jahn ; 3 cr.

### 3422 Literature: Tolstoy to the Present in Translation

**(Student Option; LITR)**  
31327 001 DIS, 10:10-11:00 MWF, Nicholson Hall 335, 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.)**  
17051 001 IND, 00:00-00:00 , , In Person Term Based; Nadya Clayton ; 1-4 cr.

### 4101 Beginning Russian for Graduate Research I

**(Student Option; )**  
18883 001 DIS, 09:05-09:55 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 RUSS 1101; Erik McDonald ; 5 cr.  
18884 002 DIS, 12:20-13:10 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 002 RUSS 1101; Nadya Clayton ; 5 cr.  
18885 003 DIS, 13:25-14:15 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 003 RUSS 1101; Erik McDonald ; 5 cr.  
18886 004 DIS, 17:30-19:35 TTh, Folwell Hall 120, In Person Term Based; Meets With: 004 RUSS 1101; Gary Jahn ; 5 cr.

### 4103 Intermediate Russian for Graduate Research I

**(Student Option; Prereq: 4102)**  
18881 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 13, In Person Term Based; Meets With: 001 RUSS 3001; Erik McDonald ; 5 cr.  
18882 002 DIS, 18:00-20:05 MW, Folwell Hall 105, In Person Term Based; Meets With: 002 RUSS 3001; Yana Taets ; 5 cr.

### 4111 Advanced Russian for Graduate Research I

**(Student Option; Prereq: 3002 or 4104 or instr consent)**  
19586 001 DIS, 14:30-15:20 MTWTh, Folwell Hall 18, In Person Term Based; Meets With: 001 RUSS 3101; Nadya Clayton ; 4 cr.

### 5421 Literature: Middle Ages to Dostoevsky in Translation

**(Student Option; LITR)**  
16892 001 LEC, 13:00-14:15 TTh, Nicholson Hall 120, In Person Term Based; Meets With: 001 RUSS 3421; Gary Jahn ; 3 cr.

### 5422 Literature: Tolstoy to the Present in Translation

**(Student Option; LITR)**  
31328 001 DIS, 10:10-11:00 MWF, Nicholson Hall 335, 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.)**  
17052 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

## Scandinavian (SCAN)

### 3011W Readings in Scandinavian Languages

**(Student Option; Prereq: [Dan or Nor or Swed][1004 or 4004] or instr consentWI)**  
18023 001 DIS, 14:30-16:25 MW, Folwell Hall 13, In Person Term Based; Meets With: 001 SCAN 4011; Hanna Zmijewska-Emerson ; 4 cr.

### 3501W Scandinavian Culture Past and Present

**(Student Option; GP,WI)**  
32833 001 LEC, 09:45-11:00 TTh, Kolthoff Hall 138, In Person Term Based; Benjamin Bigelow ; 3 cr.

### 3502 Scandinavian Myths

**(Student Option; GP,LITR)**  
32834 001 LEC, 18:20-20:50 W, Nicholson Hall 155, In Person Term Based; Anatoly Liberman ; 3 cr.

### 3614 Blood on Snow: Scandinavian Thrillers in Fiction and Film

**(Student Option; GP,LITR)**  
32835 001 DIS, 13:00-14:15 TTh, Folwell Hall 108, In Person Term Based; Meets With: 001 SCAN 5614; Benjamin Bigelow ; 3 cr.

### 3993 Directed Studies

**(Student Option; Prereq instr consent, dept consent, college consent.)**  
17375 001 IND, 00:00-00:00 , , In Person Term Based; 1-4 cr.

### 4011 Readings in Scandinavian Languages

**(Student Option; Prereq: Grad student)**  
19322 001 DIS, 14:30-16:25 MW, Folwell Hall 13, In Person Term Based; Meets With: 001 SCAN 3011W; Hanna Zmijewska-Emerson ; 2 cr.

### 5614 Blood on Snow: Scandinavian Thrillers in Fiction and Film

**(Student Option; )**  
32836 001 DIS, 13:00-14:15 TTh, Folwell Hall 108, In Person Term Based; Meets With: 001 SCAN 3614; Benjamin Bigelow ; 3 cr.

### 5701 Old Norse Language and Literature

**(Student Option; )**  
18019 001 DIS, 13:00-14:15 MW, Appleby Hall 223, In Person Term Based; Anatoly Liberman ; 3 cr.

### 5993 Directed Studies

**(Student Option; Prereq instr consent, dept consent, college consent.)**  
17376 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)**  
16713 001 LEC, 09:45-11:00 TTh, Mechanical Engineering 221, In Person Term Based; Hilal Isler ; 3 cr.

### 2501W Introduction to Social Justice

**(A-F only; WI,DSJ)**  
15848 001 LEC, 17:10-20:30 T, Peters Hall 155, In Person Term Based; Jonathan Hamilton ; 4 cr.

### 3501 Theories and Practices of Social Change Organizing

**(A-F only; Prereq: 2501W)**

15819 001 DIS, 16:00-19:20 Th, Peters Hall 280, In Person Term Based; Nate Whittaker ; 4 cr.

### 3701 Introduction to Child Maltreatment: Intervention and Prevention

**(Student Option; )**  
15516 001 LEC, 13:55-16:25 M, Andrew Boss Laboratory 125, In Person Term Based; Mark Costello ; 3 cr.

### 3702 Introduction to Adult Intimate Partner Violence: Intervention and Prevention

**(Student Option; )**  
15762 001 LEC, 17:30-20:00 T, Peters Hall 39, In Person Term Based; Oliver Williams ; 3 cr.

### 3703 Gender Violence in Global Perspective

**(Student Option; )**  
15407 001 LEC, 17:30-20:00 W, Peters Hall 280, In Person Term Based; Deena Anders, Theresa Dykoschak ; 3 cr.

### 4693 Directed Studies

**(Student Option; Prereq: instr consent)**  
15336 001 IND, Independent/Directed Study; 1-10 cr.

### 4694 Directed Research

**(Student Option; Prereq: instr consent)**  
15337 001 IND, Independent/Directed Study; 1-10 cr.

### 5051 Human Behavior and the Social Environment

**(A-F or Audit; )**  
15338 001 LEC, 13:55-15:50 Th, Borlaug Hall 365, In Person Term Based; Rosemary Link ; 2 cr.  
15339 002 LEC, 13:55-15:50 Th, McNeal Hall 395, In Person Term Based; Cindy Vang ; 2 cr.  
15822 003 LEC, 10:00-12:00 Sa, Peters Hall 5, In Person Term Based; Rosemary Link ; 2 cr.

### 5101 Historical Origins and Contemporary Policies in Social Welfare

**(A-F or Audit; )**  
16123 001 LEC, 17:10-20:00 T, Bruininks Hall 131A, In Person Term Based; Megan Morrissey ; 3 cr.  
16638 002 LEC, 17:10-20:00 W, Bruininks Hall 131A, In Person Term Based; Megan Morrissey ; 3 cr.

### 5562 Global Social Work and Social Development

**(Student Option; )**  
16144 001 LEC, 08:30-11:30 F, Peters Hall 280, In Person Term Based; Ross VeLure Roholt ; 3 cr.

### 5903 Substance Abuse and Social Work

**(Student Option; Prereq: Grad student or dept consent)**  
33416 002 LEC, 17:10-20:00 Th, Peters Hall 39, In Person Term Based; Tanya Freedland ; 2 cr.

### 5906 Advanced Ethical Decision Making

**(Student Option; )**  
16435 001 LEC, 14:30-17:30 Sa, Peters Hall 145, 14:30-17:30 Sa, Peters Hall 145, In Person Term Based; Joseph Merighi ; 1 cr.

### 5912 Grief and Loss in Social Work Practice

**(Student Option; )**  
16181 001 LEC, 14:30-17:30 Sa, Peters Hall 155, In Person Term Based; Stacy Remke ; 1 cr.

### 5991 Independent Study in Social Work

**(Student Option; )**  
15413 001 IND, Independent/Directed Study; 1-4 cr.  
16789 002 IND, Independent/Directed Study; 1-4 cr.

## Social/Administrative Pharmacy (SAPH)

### 5100 Pro-Seminar

**(A-F or Audit; )**  
29090 001 LEC, 14:30-15:20 Th, AHC ROOM TBA, In Person Term Based; Oscar Garza ; 1 cr.

## Sociology (SOC)

### 1001 Introduction to Sociology



**(A-F or Audit; Prereq: SOC 1001 recommendedDSJ)**  
33098 001 LEC, 11:15-12:30 TTh, Blegen Hall 215, In Person Term Based; Meets With: 001 GLOS 4311; Michael Goldman ; 3 cr.

### 4315 Never Again! Memory & Politics after Genocide

**(A-F or Audit; Prereq: SOC 1001 or 1011V recommended, A-F required for Majors/Minors.GP)**  
33099 001 LEC, 13:00-14:15 TTh, Blegen Hall 130, In Person Term Based; Meets With: 001 SOC 5315001 JWST 4315001 GLOS 4315001 GLOS 5315; Alejandro Baer ; 3 cr.

### 4551 Sociology of Sexualities

**(A-F or Audit; Prereq: Sociology majors/minors must register A-FDSJ,SOCS)**  
33102 001 LEC, 09:45-11:00 MW, Blegen Hall 330, In Person Term Based; Meets With: 001 SOC 4551H; Kathleen Hull ; 3 cr.

### 4551H Honors: Sociology of Sexualities

**(A-F only; Prereq: HonorsDSJ,SOCS)**  
33103 001 LEC, 09:45-11:00 MW, Blegen Hall 330, In Person Term Based; Meets With: 001 SOC 4551; Kathleen Hull ; 3 cr.

### 4703 A Nation Divided: Identity, Precarity, & Polarization

**(Student Option; Prereq: 1001 recommended, soc majors/minors must register A-FCIV)**  
33849 001 LEC, 11:15-12:30 TTh, Blegen Hall 415, In Person Term Based; Teresa Gowon ; 3 cr.

### 4966W Capstone Experience: Seminar

**(A-F only; Prereq: 1001, 3701, 3801, 3811, 12 cr upper div sociology, dept consentW)**  
17117 001 LEC, 13:00-14:15 MW, Blegen Hall 317, In Person Term Based; Rachel Schurman ; 3 cr.

### 4977V Senior Honors Proseminar I

**(A-F or Audit; Prereq: 3701, 3801, 3811, 9 additional upper div sociology cr, sr soc honors major, dept consentW)**  
17140 001 LEC, 14:30-17:00 W, Social Sciences Building 1114, In Person Term Based; Joachim Savelsberg ; 3 cr.

### 5315 Never Again! Memory & Politics after Genocide

**(A-F or Audit; Prereq: SOC 1001 or 1011V recommended, A-F required for Majors/Minors.GP)**  
33104 001 LEC, 13:00-14:15 TTh, Blegen Hall 130, In Person Term Based; Meets With: 001 SOC 4315001 JWST 4315001 GLOS 4315001 GLOS 5315; Alejandro Baer ; 3 cr.

### 5811 Social Statistics for Graduate

**Students**  
**(Student Option; Prereq: Credit will not be granted if credit has been received for Soc 3811 (Soc 5811 offered Fall terms only). Undergraduates with a strong math background are encouraged to register for 5811 in lieu of 3811. Soc majors must register A-F. 5811 is a good social statistics foundation course for MA students from other programs.MATH)**  
16823 001 LEC, 09:45-11:00 TTh, Anderson Hall 210, In Person Term Based; Meets With: 001 SOC 3811; Elizabeth Wrigley-Field ; 4 cr.  
16824 002 LAB, 08:00-09:30 Th, Blegen Hall 440, In Person Term Based; Meets With: 008 SOC 3811; 4 cr.

## Software Engineering (SENG)

### 5707 The Principles of Database Systems

**(A-F or Audit; Prereq: Grad SEng major)**  
24785 001 LEC, 12:15-15:45 F, Keller Hall 3-111, In Person Term Based; Allan Tokuda, ; 3 cr.

### 5801 Software Engineering I: Overview, Requirements, and Modeling

**(A-F or Audit; Prereq: Grad SEng major)**  
24786 001 LEC, 08:00-11:45 F, Keller Hall 3-111, In Person Term Based; Mats Heimdahl ; 3 cr.

### 5851 Software Project Management

**(A-F or Audit; Prereq: Grad SEng major)**  
24839 001 LEC, 08:00-11:45 Sa, Keller Hall 3-111, In Person Term Based; Praveen Mittal ; 3 cr.

### 5861 Introduction to Software Architecture

**(A-F or Audit; Prereq: 2nd year, MSSE grad student)**

24920 001 LEC, 12:15-15:45 Sa, Keller Hall 3-111, In Person Term Based; Michael Whalen, Andrew Nieuwsma ; 3 cr.

### 5899 Software Engineering Seminar

**(Student Option; Prereq: Grad SEng major, instr consent)**  
34094 001 LEC, 08:00-15:45 Sa, Keller Hall 3-230, In Person Term Based; Kevin Wendt ; 1 cr.

### 5900 Directed Study

**(Student Option; )**  
24919 001 LEC, 00:00-00:00 , , In Person Term Based; Kevin Wendt ; 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)**  
21574 001 LEC, 09:35-10:25 MW, Borlaug Hall 335, In Person Term Based; Jay Bell ; 4 cr.  
21575 002 LAB, 00:00-00:00 , , In Person Term Based; Jay Bell ; 4 cr.  
21952 003 DIS, 09:35-10:25 Th, Borlaug Hall 243A, In Person Term Based; Jay Bell ; 4 cr.  
21953 004 DIS, 10:40-11:30 Th, Borlaug Hall 243A, In Person Term Based; Jay Bell ; 4 cr.  
21954 005 DIS, 11:45-12:35 Th, Borlaug Hall 243A, In Person Term Based; Jay Bell ; 4 cr.  
21955 006 DIS, 12:50-13:40 Th, Borlaug Hall 243A, In Person Term Based; Jay Bell ; 4 cr.  
22155 007 LEC, 18:20-21:00 M, Borlaug Hall 365, In Person Term Based; Jay Bell ; 4 cr.  
22156 008 DIS, 18:20-21:00 W, Borlaug Hall 365, In Person Term Based; Jay Bell ; 4 cr.  
22157 009 LAB, 00:00-00:00 , , In Person Term Based; Jay Bell ; 4 cr.

### 3521 Soil Judging

**(A-F or Audit; Prereq: An introductory soils course and field studies course.)**  
21643 001 FWK, 00:00-00:00 , , In Person Term Based; Nicolas Jelinski ; 1 cr.

### 4093 Directed Study

**(Student Option; Prereq: instr consent)**  
21672 001 LEC, 00:00-00:00 , , In Person Term Based; Carl Rosen ; 1-7 cr.  
21927 002 LEC, 00:00-00:00 , , In Person Term Based; Jay Bell ; 1-7 cr.  
21937 003 LEC, 00:00-00:00 , , In Person Term Based; Nicolas Jelinski ; 1-7 cr.  
35577 004 LEC, In Person Term Based; Ed Nater ; 1-7 cr.

### 4094 Directed Research

**(Student Option; Prereq: instr consent)**  
21673 001 LEC, 00:00-00:00 , , In Person Term Based; Nicolas Jelinski ; 1-7 cr.

### 5555 Wetland Soils

**(A-F or Audit; Prereq: SOIL 1125 or 2125 or equiv or instr consent; concurrent registration is required (or allowed) in SOIL 4511 recommended)**  
21642 002 FWK, 15:00-18:00 Th, Borlaug Hall 375, In Person Term Based; Meets With: 002 ESPM 5555; Jay Bell ; 3 cr.  
21833 001 LEC, 15:00-15:50 MW, Borlaug Hall 375, In Person Term Based; Meets With: 001 ESPM 5555; Jay Bell ; 3 cr.

## Somali (SMLI)

### 1221 Beginning Somali

**(A-F or Audit; )**  
18815 001 LEC, 17:30-20:00 MW, Blegen Hall 140, In Person Term Based; Said Ahmed ; 5 cr.

### 1225 Accelerated Beginning Somali I

**(A-F only; Prereq: Ability in basic spoken Somali)**  
18823 001 LEC, 17:30-20:00 TTh, Blegen Hall 415, In Person Term Based; Said Ahmed ; 5 cr.

### 3227 Intermediate Somali I

**(A-F only; Prereq: instr consent)**  
19200 001 LEC, 14:00-16:30 MW, Blegen Hall 225, In Person Term Based; Meets With: 001 SMLI 4227; Said Ahmed ; 5 cr.

### 4227 Intermediate Somali for Graduate Research I

**(A-F only; )**

19199 001 LEC, 14:00-16:30 MW, Blegen Hall 225, In Person Term Based; Meets With: 001 SMLI 3227; Said Ahmed ; 5 cr.

## Spanish (SPAN)

### 1001 Beginning Spanish

**(Student Option; Prereq: Less than 2 yrs of high school Spanish, dept consent, no college-level Spanish)**  
17401 001 LEC, 10:10-11:00 MTWThF, Folwell Hall 104, In Person Term Based; Meets With: 001 SPAN 4001; Cecily Brown ; 5 cr.  
17402 002 LEC, 11:15-12:05 MTWThF, Folwell Hall 32, In Person Term Based; Meets With: 002 SPAN 4001; Cecily Brown ; 5 cr.  
17403 004 LEC, 13:25-14:15 MTWThF, Folwell Hall 106, In Person Term Based; Meets With: 004 SPAN 4001; Cecily Brown ; 5 cr.  
19890 005 LEC, 15:35-17:30 MW, Folwell Hall 31, In Person Term Based; Meets With: 005 SPAN 4001; Stephanie Anderson ; 5 cr.

### 1003 Intermediate Spanish

**(Student Option; Prereq: [1002 or 1022] or EPT placement)**  
17311 003 LEC, 09:05-09:55 MTWTh, Folwell Hall 5, In Person Term Based; Meets With: 003 SPAN 4003; Mary Pogatschnik ; 5 cr.  
17312 004 LEC, 09:05-09:55 MTWTh, Folwell Hall 116, In Person Term Based; Edward Eiffler ; 5 cr.  
17313 005 LEC, 09:05-09:55 MTWTh, Folwell Hall 8, In Person Term Based; Marisol Galicia Estevez ; 5 cr.  
17314 006 LEC, 10:10-11:00 MTWTh, Peik Hall 225, In Person Term Based; Edward Eiffler ; 5 cr.  
17315 007 LEC, 10:10-11:00 MTWTh, Folwell Hall 12, In Person Term Based; Mary Pogatschnik ; 5 cr.  
17316 008 LEC, 10:10-11:00 MTWTh, Folwell Hall 112, In Person Term Based; Sara Finney ; 5 cr.  
17317 009 LEC, 11:15-12:05 MTWTh, Folwell Hall 123, In Person Term Based; Edward Eiffler ; 5 cr.  
17318 010 LEC, 11:15-12:05 MTWTh, Cooke Hall 215, In Person Term Based; Gustavo Vargas ; 5 cr.  
17319 011 LEC, 11:15-12:05 MTWTh, Folwell Hall 12, In Person Term Based; Sara Finney ; 5 cr.  
17320 012 LEC, 12:20-13:10 MTWTh, Folwell Hall 5, In Person Term Based; Meets With: 012 SPAN 4003; Marisol Galicia Estevez ; 5 cr.  
17321 013 LEC, 12:20-13:10 MTWTh, Folwell Hall 8, In Person Term Based; Gustavo Vargas ; 5 cr.  
17640 001 LEC, 08:00-08:50 MTWTh, Folwell Hall 3, In Person Term Based; Mary Pogatschnik ; 5 cr.  
17641 015 LEC, 13:25-14:15 MTWTh, Folwell Hall 112, In Person Term Based; Kristin Beamish-Brown ; 5 cr.  
17828 018 LEC, 14:30-15:20 MTWTh, Folwell Hall 105, In Person Term Based; Andrew Wiesinger ; 5 cr.  
18691 016 LEC, 13:25-14:15 MTWTh, Folwell Hall 116, In Person Term Based; Gustavo Vargas ; 5 cr.  
18692 017 LEC, 14:30-15:20 MTWTh, Folwell Hall 106, In Person Term Based; Kristin Beamish-Brown ; 5 cr.  
18743 002 LEC, 08:00-08:50 MTWTh, Folwell Hall 121, In Person Term Based; Ashlyn Heise ; 5 cr.  
19392 019 LEC, 15:35-16:25 MTWTh, Folwell Hall 105, In Person Term Based; Andrew Wiesinger ; 5 cr.  
19393 020 LEC, 16:40-17:30 MTWTh, Folwell Hall 105, In Person Term Based; Andrew Wiesinger ; 5 cr.  
19810 014 LEC, 13:25-14:15 MTWTh, Folwell Hall 12, In Person Term Based; Rachel Christensen ; 5 cr.  
19943 301 LEC, Completely Online; Andrew Wiesinger ; 5 cr.  
20556 021 LEC, 18:00-19:55 MW, Folwell Hall 18, In Person Term Based; Meets With: 021 SPAN 4003; Catalina Ahumada Escobar ; 5 cr.

### 1004 Intermediate Spanish

**(Student Option; Prereq: 1003 or EPT placement)**  
17322 002 LEC, 08:00-08:50 MTWTh, Folwell Hall 106, Partially Online; Adriana Sanchez-Vargas ; 5 cr.  
17323 003 LEC, 09:05-09:55 MTWTh, Folwell Hall 30, Partially Online; Meets With: 003 SPAN 4004; Adriana Sanchez-Vargas ; 5 cr.  
17324 004 LEC, 09:05-09:55 MTWTh, Folwell Hall 28, Partially Online; Sara Mack ; 5 cr.  
17325 005 LEC, 10:10-11:00 MTWTh, Folwell Hall 116, Partially Online; Sabrina Fluegel ; 5 cr.  
17326 006 LEC, 10:10-11:00 MTWTh, Folwell Hall 8, Partially Online; Adriana Sanchez-Vargas ; 5 cr.  
17327 007 LEC, 10:10-11:00 MTWTh, Folwell Hall 28, Partially Online; Joy Collman ; 5 cr.  
17328 008 LEC, 11:15-12:05 MTWTh, Folwell Hall 112, Partially Online; Stephanie Anderson ; 5 cr.  
17329 009 LEC, 11:15-12:05 MTWTh, Civil Engineering Bldg 213, Partially Online; Alexander Korte ; 5 cr.  
17330 010 LEC, 11:15-12:05 MTWTh, Folwell Hall 8, Partially Online; Joy Collman ; 5 cr.







(Student Option; Prereq: 4801 or CDIS 4801 or instr consent)  
16801 001 LEC, 09:00-11:30 T, Shevlin Hall 110, In Person Term Based; Robert Schlauch ; 3 cr.

**5802 Hearing Aids I**

(Student Option; Prereq: [[3305, 4801] or [CDIS 3305, CDIS 4801], SLHS grad] or instr consent)  
16802 001 LEC, 13:30-16:00 W, Shevlin Hall 20, In Person Term Based; Evelyn Davies-Venn ; 3 cr.

**5803 Pediatric Audiology**

(Student Option; Prereq: [[4801 or CDIS 4801], SLHS grad] or instr consent)  
33164 001 LEC, 09:00-11:40 Th, Shevlin Hall 110, In Person Term Based; Kerry Witherell ; 3 cr.

**5808 Pathophysiology of Hearing Disorders**

(A-F or Audit; Prereq: [[8801, 8802] or [CDIS 8801, CDIS 8802], SLHS grad] or instr consent)  
33168 001 LEC, 14:30-17:30 W, Shevlin Hall 110, In Person Term Based; Peggy Nelson ; 3 cr.

**5810 Laboratory Module in Audiology**

(A-F only; Prereq: [4801 or CDIS 4801, SLHS grad] or instr consent)  
16803 001 LAB, 09:00-11:00 , , In Person Term Based; Kristi Oeding ; 1-2 cr.  
20314 002 LAB, 13:00-15:00 , , In Person Term Based; Kristi Oeding ; 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)  
18025 001 DIS, 10:00-11:30 F, Shevlin Hall 20, In Person Term Based; Sarah Angerman ; 1-6 cr.

**5830 Clinical Foundations in Audiology**

(S-N or Audit; Prereq: Grad SLHS major)  
18915 001 FWK, 00:00-00:00 , , In Person Term Based; Sarah Angerman ; 1-8 cr.

**5993 Directed Study**

(Student Option; Prereq: SLHS grad or instr consent)  
17223 001 IND, 00:00-00:00 , , In Person Term Based; Sarah Angerman ; 1-12 cr.  
17571 008 IND, 00:00-00:00 , , In Person Term Based; Benjamin Munson ; 1-12 cr.  
17845 010 IND, 00:00-00:00 , , In Person Term Based; Peter Watson ; 1-12 cr.  
17846 012 IND, 00:00-00:00 , , In Person Term Based; Jayanthi Sasisekaran ; 1-12 cr.  
17847 009 IND, 00:00-00:00 , , In Person Term Based; Peggy Nelson ; 1-12 cr.  
17848 003 IND, 00:00-00:00 , , In Person Term Based; Katlyn McGrattan ; 1-12 cr.  
17849 004 IND, 00:00-00:00 , , In Person Term Based; Matthew Winn ; 1-12 cr.  
17852 002 IND, 00:00-00:00 , , In Person Term Based; Yang Zhang ; 1-12 cr.  
17884 005 IND, 00:00-00:00 , , In Person Term Based; Lizbeth Finestack ; 1-12 cr.  
18237 013 IND, 00:00-00:00 , , In Person Term Based; Robert Schlauch ; 1-12 cr.  
20373 014 IND, 00:00-00:00 , , In Person Term Based; Evelyn Davies-Venn ; 1-12 cr.

**Sport Management (SMGT)****1701 Introduction to Sport Management**

(A-F or Audit; )  
15853 001 LEC, 09:45-11:00 TTh, Fraser Hall 101, In Person Term Based; Vicki Schull ; 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.)  
15854 001 LEC, 11:15-12:30 MW, Akerman Hall 225, In Person Term Based; Clinton Warren, PhD ; 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.)  
15855 001 LEC, 13:00-14:15 MW, Molecular Cellular Biol 2-122, In Person Term Based; Vicki Schull ; 3 cr.

33170 002 LEC, 09:45-11:00 MW, Civil Engineering Bldg 212, In Person Term Based; Kevin King ; 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.)  
15856 001 LEC, 09:45-11:00 TTh, Akerman Hall 209, In Person Term Based; Kevin King ; 3 cr.

**3501 Sport in a Diverse Society**

(A-F only; DSJ,SOCs)  
15857 001 LEC, 11:15-12:30 TTh, Cooke Hall 206, In Person Term Based; Chelsey Thul ; 3 cr.  
15897 003 LEC, 08:15-09:30 TTh, Cooke Hall 206, In Person Term Based; Nicole LaVol ; 3 cr.  
15956 004 LEC, 11:15-12:30 MW, Cooke Hall 206, In Person Term Based; Mary Jo Kane ; 3 cr.  
16154 005 LEC, 17:00-18:15 MW, Cooke Hall 206, In Person Term Based; Leo Lewis ; 3 cr.  
16324 002 LEC, 13:00-14:15 TTh, Cooke Hall 214, In Person Term Based; Meets With: 001 SMGT 3501H; Chelsey Thul ; 3 cr.

**3501H Sport in a Diverse Society: Honors**

(A-F only; Prereq: Honors student DSJ,SOCs)  
16407 001 LEC, 13:00-14:15 TTh, Cooke Hall 214, In Person Term Based; Meets With: 002 SMGT 3501; Chelsey Thul ; 3 cr.

**3601 Ethics and Values in Sport**

(A-F or Audit; Prereq: SMGT major and 60 credits completed or in progress.)  
15858 001 LEC, 12:45-14:25 W, Cooke Hall 214, In Person Term Based; Jazmin Danielson ; 2 cr.

**3631 Sport Marketing**

(A-F only; Prereq: SMGT Major or SMGT Minor, or instructor consent AND 45 credits completed or in progress.)  
16547 002 LEC, 13:00-14:15 TTh, Armory Building 116, In Person Term Based; Kevin King ; 3 cr.

**3632 Sport Sales and Fund-raising**

(A-F only; Prereq: Sport Management major or instr consent)  
15942 001 LEC, 08:15-09:30 TTh, Akerman Hall 225, 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.)  
15859 001 LEC, 16:00-17:15 TTh, Akerman Hall 319, In Person Term Based; Andrew Nelson ; 3 cr.

**3881W Senior Seminar in Sport Management**

(A-F or Audit; WI)  
15860 001 LEC, 15:00-17:30 M, Cooke Hall 215, In Person Term Based; Lisa Kihl ; 3 cr.  
16192 003 LEC, 18:00-20:30 M, Cooke Hall 215, In Person Term Based; Lisa Kihl ; 3 cr.

**3993 Directed Study in Sport Management**

(A-F only; Prereq: Undergrad, instr consent)  
15926 005 IND, 00:00-00:00 , Independent/Directed Study; Vicki Schull ; 1-3 cr.  
15927 009 IND, 00:00-00:00 , Independent/Directed Study; Lisa Kihl ; 1-3 cr.  
16278 015 IND, 00:00-00:00 , In Person Term Based; Yuhei Inoue ; 1-3 cr.  
16685 016 IND, In Person Term Based; Yonghwan Chang ; 1-3 cr.  
35270 017 IND, In Person Term Based; Clinton Warren, PhD ; 1-3 cr.

**3996 Practicum: The Sport Experience**

(S-N only; Prereq: 3881, SMGT major, instr consent)  
16155 002 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 University MATH)  
17892 001 LEC, 10:10-11:00 MWF, Molecular Cellular Biol 2-122, In Person Term Based; Meng-Hsuan Wu ; 4 cr.  
17893 002 LAB, 09:05-09:55 T, Peik Hall 28, In Person Term Based; 4 cr.

**1915 Scientific Computing with Python**

(A-F only; )  
34051 001 DIS, 13:00-15:30 W, Lind Hall 229, In Person Term Based; Snigdhasu Chatterjee ; 3 cr.

**3011 Introduction to Statistical Analysis**

(Student Option; MATH)  
16825 001 LEC, 09:05-09:55 MWF, Anderson Hall 350, In Person Term Based; Wenjing Yang ; 4 cr.  
16826 002 LAB, 08:00-08:50 T, Akerman Hall 319, In Person Term Based; 4 cr.  
16827 003 LAB, 09:05-09:55 T, Tate Hall 110, In Person Term Based; 4 cr.  
16828 007 LAB, 10:10-11:00 T, Cooke Hall 215, In Person Term Based; 4 cr.  
16829 008 LAB, 11:15-12:05 T, Mechanical Engineering 18, In Person Term Based; 4 cr.  
16830 009 LEC, 12:20-13:10 MWF, Bruininks Hall 230, In Person Term Based; Yuyoung Yang ; 4 cr.  
16831 010 LAB, 12:20-13:10 Th, Amundson Hall B75, In Person Term Based; 4 cr.  
16832 011 LAB, 13:25-14:15 Th, Mechanical Engineering 18, In Person Term Based; 4 cr.  
16833 012 LAB, 14:30-15:20 Th, Akerman Hall 225, In Person Term Based; 4 cr.  
16834 013 LEC, 10:10-11:00 MWF, West Bank Skyway 20, In Person Term Based; Yuyoung Yang ; 4 cr.  
16835 014 LAB, 10:10-11:00 T, Ford Hall B10, In Person Term Based; 4 cr.  
16836 015 LAB, 09:05-09:55 T, Ford Hall 130, In Person Term Based; 4 cr.  
16837 016 LAB, 11:15-12:05 T, Peik Hall 155, In Person Term Based; 4 cr.  
16838 017 LEC, 17:10-18:00 MWF, Ruttan Hall 143, In Person Term Based; Haoran Xue ; 4 cr.  
16839 018 LAB, 17:10-18:00 T, Ruttan Hall B25, In Person Term Based; 4 cr.  
18749 004 LAB, 10:10-11:00 T, Tate Hall 110, In Person Term Based; 4 cr.  
18750 005 LEC, 08:00-08:50 MWF, Vincent Hall 16, In Person Term Based; James Burrell ; 4 cr.  
18753 006 LAB, 09:05-09:55 T, Burton Hall 120, In Person Term Based; 4 cr.

**3021 Introduction to Probability and Statistics**

(Student Option; Prereq: Math 1272)  
16843 001 LEC, 11:15-12:05 MWF, Bruininks Hall 220, In Person Term Based; Kazeem Adepoju ; 3 cr.  
16844 002 LAB, 09:05-09:55 T, Ford Hall 150, In Person Term Based; 3 cr.  
16845 003 LAB, 10:10-11:00 T, Armory Building 116, In Person Term Based; 3 cr.  
17482 004 LAB, 11:15-12:05 T, Ford Hall 150, In Person Term Based; 3 cr.  
19961 005 LEC, 14:30-15:20 MWF, Nicholson Hall 155, In Person Term Based; Meng-Hsuan Wu ; 3 cr.  
19962 006 LAB, 13:25-14:15 T, Peik Hall 315, In Person Term Based; 3 cr.  
19963 007 LAB, 14:30-15:20 T, Ford Hall 150, In Person Term Based; 3 cr.  
19964 008 LAB, 15:35-16:25 T, Akerman Hall 225, In Person Term Based; 3 cr.  
35114 009 LEC, 13:25-14:15 MWF, West Bank Skyway 20, In Person Term Based; Kazeem Adepoju ; 3 cr.  
35115 010 LAB, 13:25-14:15 T, Bruininks Hall 230, In Person Term Based; 3 cr.  
35116 011 LAB, 12:20-13:10 T, Bruininks Hall 512A, In Person Term Based; 3 cr.  
35117 012 LAB, 09:05-09:55 T, Ford Hall B10, In Person Term Based; 3 cr.

**3022 Data Analysis**

(Student Option; Prereq: 3011 or 3021 or SOC 3811)  
16840 001 LEC, 11:15-12:05 MWF, Peik Hall 28, In Person Term Based; Meng-Hsuan Wu ; 4 cr.  
16841 002 LAB, 12:20-13:10 T, Ford Hall 110, In Person Term Based; 4 cr.  
16842 003 LAB, 14:30-15:20 T, Molecular Cellular Biol 2-120, In Person Term Based; 4 cr.  
17896 004 LEC, 10:10-11:00 MWF, Armory Building 116, In Person Term Based; Sanhita Sengupta ; 4 cr.  
20034 005 LAB, 10:10-11:00 T, Ford Hall 110, In Person Term Based; 4 cr.  
20317 006 LAB, 11:15-12:05 T, Ford Hall 151, In Person Term Based; 4 cr.

**3032 Regression and Correlated Data**

(Student Option; Prereq: STAT 3011 or STAT 3021)  
19982 001 LEC, 15:35-16:25 MWF, Mechanical Engineering 18, In Person Term Based; Georgia(Zhuozhi) Huang ; 4 cr.  
19983 002 LAB, 10:10-11:00 T, Peik Hall 155, In Person Term Based; 4 cr.  
19984 003 LAB, 11:15-12:05 T, Ford Hall 130, In Person Term Based; 4 cr.



**(Student Option; )**

19520 001 LEC, 16:00-17:15 W, Nicholson Hall 325,  
14:30-17:30 M, Nicholson Hall 325, In Person Term  
Based; Graeme Stout ; 4 cr.

**5993 Directed Study****(Student Option; )**

19377 001 IND, 00:00-00:00 , , Independent/Directed Study;  
James Snapko ; 1-3 cr.  
21523 002 IND, In Person Term Based; Graeme Stout ; 1-3  
cr.  
35615 003 IND, In Person Term Based; Lorenzo Fabbri ; 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)**

22658 001 DIS, 09:55-11:35 MW, Carlson School of Mgmt  
L-110, In Person Term Based; Bhupinder Juneja ; 4 cr.  
22659 002 DIS, 13:45-15:25 MW, Carlson School of Mgmt  
L-110, In Person Term Based; Oliver Papp ; 4 cr.  
22660 003 DIS, 08:00-09:40 TTh, Carlson School of Mgmt  
L-110, In Person Term Based; Steven Huchendorf ; 4 cr.  
22661 004 DIS, 09:55-11:35 TTh, Carlson School of Mgmt  
L-110, In Person Term Based; Steven Huchendorf ; 4 cr.  
22662 020 DIS, 17:45-21:05 Th, Carlson School of Mgmt  
L-110, In Person Term Based; Oliver Papp ; 4 cr.  
22699 005 DIS, 11:50-13:30 TTh, Carlson School of Mgmt  
L-110, In Person Term Based; Steven Huchendorf ; 4 cr.

**3001 Supply Chain and Operations**

**(A-F or Audit; )**

22663 001 LEC, 09:45-11:00 TTh, Hanson Hall 1-104, In  
Person Term Based; Karthik Natarajan ; 3 cr.  
22664 002 LEC, 08:15-09:30 MW, Hanson Hall 1-104, In  
Person Term Based; David Quimby ; 3 cr.  
22665 003 LEC, 14:30-15:45 TTh, Hanson Hall 1-104, In  
Person Term Based; Karthik Natarajan ; 3 cr.  
22700 004 LEC, 14:30-15:45 MW, Hanson Hall 1-104, In  
Person Term Based; David Quimby ; 3 cr.  
22766 005 LEC, 11:15-12:30 TTh, Hanson Hall 1-102, In  
Person Term Based; Karthik Natarajan ; 3 cr.  
22897 006 LEC, 14:15-15:30 TTh, Carlson School of Mgmt  
1-147, In Person Term Based; Eric Xu ; 3 cr.  
34959 007 LEC, 13:00-14:15 TTh, Hanson Hall 1-105, In  
Person Term Based; David Quimby ; 3 cr.

**3041 Project Management**

**(A-F or Audit; Prereq: 3000 or instr consent)**

22666 001 LEC, 11:50-13:30 MW, Carlson School of Mgmt  
L-110, In Person Term Based; David Quimby ; 2 cr.

**3045 Sourcing and Supply Management**

**(A-F only; Prereq: 3001)**

22667 001 LEC, 11:50-13:30 TTh, Carlson School of Mgmt  
2-233, In Person Term Based; Thomas Buchner ; 2 cr.

**3048 Transportation and Logistics  
Management**

**(A-F only; Prereq: 3001)**

22668 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt  
2-213, In Person Term Based; Karen Donohue ; 2 cr.

**3051 Service Management**

**(A-F only; Prereq: 3001)**

22669 001 LEC, 15:45-17:25 TTh, Carlson School of Mgmt  
L-114, In Person Term Based; Susan Goldstein ; 2 cr.

**3056 Supply Chain Planning and Control**

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

22670 001 LEC, 09:55-11:35 MW, Carlson School of Mgmt  
1-123, In Person Term Based; Thomas Buchner ; 4 cr.

**3059 Quality Management and Lean Six  
Sigma**

**(A-F or Audit; Prereq: 3001 or equiv or instr consent)**

22671 001 LEC, 14:30-16:10 MW, Hanson Hall 1-105, In  
Person Term Based; Steven Huchendorf ; 4 cr.

**3072 Managing Technologies in the Supply  
Chain**

**(A-F only; Prereq: 3001)**

22736 001 LEC, 13:45-15:25 TTh, Carlson School of Mgmt  
L-110, In Person Term Based; Anant Mishra ; 2 cr.

**4065W Supply Chain and Operations**

**Strategy**

**(A-F only; Prereq: 3001, 3056, 3059, 4 [OMS or SCO]  
elective cr/WI)**

22672 001 LEC, 09:55-11:35 TTh, Carlson School of Mgmt  
1-135, In Person Term Based; David Quimby ; 4 cr.

**Sustainability Studies (SUST)****3003 Sustainable People, Sustainable  
Planet**

**(Student Option; Prereq: Soph or jr or srENV)**

21902 001 LEC, 13:30-14:45 MW, Biological Sciences Ctr  
64, In Person Term Based; Jason Hill ; 3 cr.

**4004 Sustainable Communities**

**(A-F only; Prereq: [3003 or GLOS 3304, [jr or sr] in  
sustainability studies minor] or instr consent)**

21936 001 LEC, 17:30-20:00 Th, Bruininks Hall 512A,  
17:30-17:30 , , In Person Term Based; Julia Nerbonne ; 3  
cr.

**4096 Sustainability Internship**

**(A-F only; Prereq: Familiarity with sustainability  
concepts through academic work or other experiences)**

22268 001 FWK, 16:00-17:15 T, Vincent Hall 313, 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)**

22186 001 LEC, 00:00-00:00 , , In Person Term Based; Craig  
Sheaffer ; 1-3 cr.

**Sustainable Systems  
Management (SSM)****1004 Sustainable Systems Management  
Orientation**

**(S-N only; Prereq: None)**

22181 001 LEC, 15:00-16:55 Th, Alderman Hall 415, In  
Person Term Based; Cindy McComas, Omar Espinoza ; 1  
cr.

**2003 Systems Thinking: Development and  
Applications in Sustainability**

**(A-F only; )**

22183 001 LEC, 09:30-12:00 M, Biological Sciences Ctr 12,  
In Person Term Based; Tim Smith ; 3 cr.

**3301 Global Water Resource Use and  
Sustainability**

**(Student Option; ENV)**

22197 001 LEC, Completely Online; Gary Sands ; 3 cr.

**3503 Marketing of Bio-based Products**

**(A-F or Audit; )**

21880 001 LEC, Completely Online; Meets With: 001 SSM  
5503; Masoumeh Heshmatpour ; 4 cr.

**4407W Sustainable Manufacturing  
Principles and Practices**

**(A-F only; Prereq: Junior/Senior Status, Introductory  
Chemistry or instr consent/WI)**

21881 001 LEC, 10:40-12:35 MW, Green Hall 203, In Person  
Term Based; Meets With: 001 SSM 5407; Omar Espinoza,  
Cindy McComas ; 3 cr.

**4413 Systems Approach to Residential  
Construction**

**(Student Option; Prereq: Upper div or instr consent)**

22263 001 LEC, 10:15-12:10 TTh, McNeal Hall 316, In  
Person Term Based; Meets With: 001 SSM 5413; Marilou  
Cheple, Kevin Janni ; 4 cr.

**5407 Sustainable Manufacturing Principles  
and Practices**

**(A-F only; )**

21884 001 LEC, 10:40-12:35 MW, Green Hall 203, In  
Person Term Based; Meets With: 001 SSM 4407W; Omar  
Espinoza, Cindy McComas ; 3 cr.

**5413 A Systems Approach to Residential  
Construction**

**(Student Option; )**

22264 001 LEC, 10:15-12:10 TTh, McNeal Hall 316, In  
Person Term Based; Meets With: 001 SSM 4413; Marilou  
Cheple, Kevin Janni ; 4 cr.

**Swahili (SWAH)****1221 Beginning Swahili, Semester I**

**(Student Option; )**

18306 001 LEC, 10:10-12:05 MW, Blegen Hall 205, In  
Person Term Based; Meets With: 001 SWAH 4221;  
Angaluki Muaka ; 5 cr.  
18332 002 LEC, 18:20-20:50 TTh, Blegen Hall 230, In  
Person Term Based; Meets With: 002 SWAH 4221;  
Angaluki Muaka ; 5 cr.

**3225 Intermediate Swahili**

**(Student Option; Prereq: 1 yr Swahili or equiv)**

20520 001 LEC, 14:30-15:20 MTWThF, Blegen Hall 135,  
In Person Term Based; Meets With: 001 SWAH 4225;  
Angaluki Muaka ; 5 cr.

**4221 Beginning Swahili for Graduate  
Research I**

**(Student Option; )**

18312 001 LEC, 10:10-12:05 MW, Blegen Hall 205, In  
Person Term Based; Meets With: 001 SWAH 1221;  
Angaluki Muaka ; 5 cr.  
18333 002 LEC, 18:20-20:50 TTh, Blegen Hall 230, In  
Person Term Based; Meets With: 002 SWAH 1221;  
Angaluki Muaka ; 5 cr.

**4225 Intermediate Swahili for Graduate  
Research**

**(Student Option; )**

20521 001 LEC, 14:30-15:20 MTWThF, Blegen Hall 135,  
In Person Term Based; Meets With: 001 SWAH 3225;  
Angaluki Muaka ; 5 cr.

**Swedish (SWED)****1001 Beginning Swedish**

**(Student Option; )**

17476 002 DIS, 16:40-18:05 TTh, Folwell Hall 118,  
16:40-18:05 M, Jones Hall 35, In Person Term Based;  
Meets With: 002 SWED 4001; Liina-Ly Roos, Lena  
Norrman ; 5 cr.  
18515 001 DIS, 11:15-12:05 MTWThF, Folwell Hall 31, In  
Person Term Based; Meets With: 001 SWED 4001; Liina-  
Ly Roos ; 5 cr.

**1003 Intermediate Swedish**

**(Student Option; Prereq: 1002)**

17621 001 DIS, 13:25-14:15 MTWThF, Folwell Hall 123, In  
Person Term Based; Meets With: 001 SWED 4003; Liina-  
Ly Roos ; 5 cr.

**4001 Beginning Swedish for Graduate  
Research**



**4393 BFA Rehearsal and Performance III**

(A-F or Audit; Prereq: BFA student in theatre arts)  
17983 001 LAB, 11:00-17:00 Sa, Lab TBA, 19:30-22:30  
MTWThF, Lab TBA, In Person Term Based; Michelle  
O'Neill, Bruce Roach, Keely Wolter ; 2 cr.

**4394 BFA Rehearsal and Performance IV**

(A-F or Audit; Prereq: BFA student in theatre arts)  
17984 001 LAB, 19:30-22:30 MTWThF, Lab TBA,  
11:00-17:00 Sa, Lab TBA, In Person Term Based;  
Deborah Pearson ; 2 cr.

**4532 Makeup for the Actor**

(Student Option; )  
18916 001 LAB, 09:05-12:05 F, Rarig Center 64, In Person  
Term Based; Theresa Bundick ; 2 cr.

**4901 Capstone Project for Theater**

(S-N or Audit; Prereq: Sr, [Th or Dnce major])  
17145 001 IND, 00:00-00:00 , , In Person Term Based; Kym  
Longhi ; 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])  
17182 001 IND, 00:00-00:00 , , In Person Term Based;  
Sonali Pahwa ; 2-4 cr.

**5100 Theatre Practicum**

(Student Option; Prereq: instr consent, dept consent; 3  
cr of 3100 for undergrads)  
17146 001 FWK, In Person Term Based; 1-4 cr.

**5103 The Theatre Dramaturg**

(Student Option; )  
21206 001 LEC, 11:15-13:10 TTh, Social Sciences Building  
278, In Person Term Based; Talvin Wilks ; 3 cr.

**5179W Text and Performance**

(A-F or Audit; Prereq: [1322, [3171 or 3172]] or grad  
studentWI)  
33701 001 LEC, 11:15-13:10 TTh, Blegen Hall 205, In  
Person Term Based; Lisa Channer ; 3 cr.

**5340 Tragedy/Poetry: Advanced Physical Performance Studio**

(A-F only; Prereq: [3322, 3331, grad student] or instr  
consent)  
18757 001 LEC, 11:15-13:10 MW, Rarig Center 90, In  
Person Term Based; Barbra Berlovitz ; 3 cr.

**5355 Puppetry: Techniques and Practice in Contemporary Theater**

(Student Option; Prereq: [[3513 or concurrent  
registration is required (or allowed) in 3513], instr  
consent] or grad student)  
18756 001 LAB, 09:05-11:00 TTh, Rarig Center 30,  
09:05-11:00 TTh, Rarig Center 90, In Person Term Based;  
Michael Sommers ; 3 cr.

**5500 Theatre Design Practicum**

(Student Option; Prereq: Th 3521, 3531, or 3541)  
17147 001 FWK, In Person Term Based; Marcus Dilliard ; 1-3  
cr.  
20071 002 FWK, In Person Term Based; Matthew Lefebvre ;  
1-3 cr.  
20136 003 FWK, In Person Term Based; Chelsea Masteller  
Warren ; 1-3 cr.

**5510 Drawing, Rendering, and Painting for the Theatre Designer I**

(Student Option; Prereq: 1501 or grad)  
20496 001 LAB, 08:00-09:55 MW, Rarig Center 275, In  
Person Term Based; Matthew Lefebvre ; 3 cr.

**5520 Scene Design**

(Student Option; Prereq: 3521)  
33569 001 LAB, 08:00-09:55 TTh, Rarig Center 275, In  
Person Term Based; Chelsea Masteller Warren ; 3 cr.

**5540 Lighting Design for the Theatre**

(Student Option; Prereq: 3541)  
20497 001 LEC, 10:10-12:05 MW, Rarig Center 275, In  
Person Term Based; Marcus Dilliard ; 3 cr.

**5570 Properties/Scenery Technology**

(Student Option; Prereq: 3515 or grad or instr consent)  
20498 001 FWK, 18:30-21:30 MW, Rarig Center 130, In  
Person Term Based; Jason Allyn-Schwerin ; 1-3 cr.

**5580 Costume Technology**

(Student Option; Prereq: 3571 or grad or instr consent)  
34386 001 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)  
20181 001 FWK, In Person Term Based; Marcus Dilliard ; 1-3  
cr.  
20182 002 FWK, In Person Term Based; Matthew Lefebvre ;  
1-3 cr.  
20183 003 FWK, In Person Term Based; Chelsea Masteller  
Warren ; 1-3 cr.

**5716 Stage Management for the Theatre**

(Student Option; Prereq: [1101, 1321, soph] or grad)  
17149 001 LEC, 15:35-17:30 TTh, Rarig Center 275, In  
Person Term Based; Meets With: 001 TH 3716; Christine  
Swartwout ; 4 cr.

**5760 Advanced Stage Management**

(Student Option; Prereq: 5716 or concurrent  
registration is required (or allowed) in 5716, instr  
consent; [4 cr max for undergrads])  
17150 001 FWK, In Person Term Based; Christine  
Swartwout ; 2 cr.

**5993 Directed Study**

(Student Option; Prereq: 6 Th cr, instr consent, dept  
consent, college consent.)  
17151 001 IND, In Person Term Based; 1-5 cr.

**Toledo International Program (TLDO)****Toxicology (TXCL)****5000 Directed Research in Toxicology**

(A-F or Audit; Prereq: instr consent)  
10286 001 LAB, In Person Term Based; 1-5 cr.

**5195 Veterinary Toxicology**

(A-F or Audit; Prereq: Grad student or instr consent)  
10280 001 LEC, 00:00-00:00 , , In Person Term Based;  
Michael Murphy ; 3 cr.

**Translation and Interpreting (TRIN)****1201 Health Care Terms and Concepts for Interpreters**

(A-F or Audit; )  
29707 001 LEC, 18:10-21:00 Th, Kolthoff Hall 134, In Person  
Term Based; Adriana Sande ; 3 cr.

**1901 Special Education Terms and Concepts for Interpreters**

(Student Option; )  
33443 301 LEC, Completely Online; Meets With: 301 TRIN  
900; Betty Tapias-Heinrich ; 3 cr.

**3001 Introduction to Translation**

(Student Option; Prereq: Bilingual proficiency in  
[English, second language of instruction])  
29805 001 LEC, 18:10-21:00 W, Folwell Hall 122, In Person  
Term Based; Mohamad Anwar ; 3 cr.

**3101 Introduction to Interpreting**

(Student Option; Prereq: high level of proficiency  
in spoken English and another language; 3001  
recommended)  
29854 001 LEC, 18:10-21:00 T, Folwell Hall 32, In Person  
Term Based; Scott Homler ; 3 cr.

**5993 Directed Study**

(Student Option; )  
29895 001 IND, In Person Term Based; Scott Homler ; 1-3 cr.

**University College (UC)****3201 Web Designer Introduction**

(Student Option; )  
29711 002 LEC, 17:00-21:00 W, Keller Hall 2-260, In Person  
Term Based; David Husom ; 4 cr.

**Urban Studies (URBS)****1001W Introduction to Urban Studies: The**

**Complexity of Metropolitan Life**  
(A-F or Audit; WI)  
17239 001 LEC, 16:00-17:15 MW, Carlson School of Mgmt  
L-110, In Person Term Based; Meets With: 001 URBS  
3001W; Mark Brinda ; 3 cr.

**3001W Introduction to Urban Studies: The**

**Complexity of Metropolitan Life**  
(A-F or Audit; WI)  
19185 001 LEC, 16:00-17:15 MW, Carlson School of Mgmt  
L-110, In Person Term Based; Meets With: 001 URBS  
1001W; Mark Brinda ; 3 cr.

**3201 Urban Studies Colloquium**

(A-F or Audit; Prereq: dept consent)  
34297 001 DIS, 17:30-19:30 T, Blegen Hall 115, In Person  
Term Based; Heather Huseby ; 1 cr.  
34298 002 DIS, 17:30-19:30 T, Blegen Hall 115, In Person  
Term Based; Jason Wittenberg ; 1 cr.  
34550 003 DIS, 16:00-17:30 Th, Blegen Hall 430, In Person  
Term Based; Claire Bleser ; 1 cr.

**3500 Urban Studies Workshop**

(A-F or Audit; Prereq: instr consent)  
34299 001 FWK, 15:30-18:00 W, Blegen Hall 330, In Person  
Term Based; Michael Cronin ; 3 cr.  
34300 002 FWK, 18:00-20:30 W, Blegen Hall 115, In Person  
Term Based; Susan Carlson Weinberg ; 3 cr.

**3896 Urban Studies Internship Seminar**

(A-F or Audit; Prereq: Sr, internship placement, dept  
consent, instr consent)  
17407 001 FWK, 13:30-15:00 M, Blegen Hall 140, In Person  
Term Based; Paula Pentel ; 2 cr.  
34493 002 FWK, In Person Term Based; Paula Pentel ; 2 cr.

**3955W Senior Paper Seminar**

(A-F or Audit; Prereq: dept consentWI)  
18734 001 LEC, 13:00-15:00 W, Hubert H. Humphrey School  
184, In Person Term Based; Roderick Squires ; 2 cr.

**3993 Urban Studies Directed Study**

(Student Option; Prereq UrbS majors, instr consent,  
dept consent.)  
17578 001 IND, In Person Term Based; 1-3 cr.

**Urdu (URDU)****1011 Beginning Urdu I**

(Student Option No Audit; )  
21068 001 LEC, 12:20-13:10 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 URDU 4001; Meraj  
Ahmed ; 5 cr.

**3021 Intermediate Urdu I**

(Student Option No Audit; )  
21070 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 119, In  
Person Term Based; Meets With: 001 URDU 4003; Meraj  
Ahmed ; 5 cr.

**3031 Advanced Urdu I**

(Student Option No Audit; Prereq: 3022 or instr  
consent)  
32843 001 LEC, 16:40-18:35 MW, Folwell Hall 6, In Person  
Term Based; Meets With: 001 URDU 4005; Meraj Ahmed ;  
4 cr.

**4001 Beginning Urdu I for Graduate Student Research**

(Student Option No Audit; )  
21069 001 LEC, 12:20-13:10 MTWThF, Peik Hall 165, In  
Person Term Based; Meets With: 001 URDU 1011; Meraj  
Ahmed ; 5 cr.

**4003 Intermediate Urdu I for Graduate Student Research**

(Student Option No Audit; )  
21071 001 LEC, 15:35-16:25 MTWThF, Folwell Hall 119, In  
Person Term Based; Meets With: 001 URDU 3021; Meraj  
Ahmed ; 5 cr.

**4005 Advanced Urdu I for Graduate Research**

(Student Option No Audit; )

32844 001 LEC, 16:40-18:35 MW, Folwell Hall 6, In Person Term Based; Meets With: 001 URDU 3031; Meraj Ahmed ; 4 cr.

## Veterinary & Biomedical Sci (VBS)

### 1001 Introduction to Biotechnology

(A-F or Audit; BIOL,TS)  
10375 001 LEC, 12:50-13:40 MW, Room TBA, In Person Term Based; Yuying Liang ; 4 cr.  
10376 002 LAB, 13:55-15:55 MW, Veterinary Science 325, In Person Term Based; Yuying Liang ; 4 cr.

### 2032 General Microbiology With Laboratory

(A-F only; Prereq: One semester each of college chemistry, biology)

10287 001 LEC, 11:45-12:35 TTh, Ruttan Hall B45, Partially Online; Patricia Goodman-Mamula, Dawn Foster Hartnett ; 5 cr.  
10288 002 LAB, 09:15-11:15 TTh, Veterinary Science 325, In Person Term Based; Dawn Foster Hartnett, Patricia Goodman-Mamula ; 5 cr.  
10289 003 LAB, 13:00-15:00 TTh, Veterinary Science 325, In Person Term Based; Dawn Foster Hartnett, Patricia Goodman-Mamula ; 5 cr.

## Veterinary Clinical Sciences (VCS)

### 4606 Small Animal Management

(A-F or Audit; )  
10314 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Kristy Lashbaugh ; 3 cr.  
10377 002 DIS, Completely Online; Kristy Lashbaugh ; 3 cr.

### 4992 Directed Readings in Veterinary Clinical Sciences

(A-F only; Prereq: [One-page proposal, bibliography of works to be read] submitted to faculty)  
10303 002 IND, 08:30-09:20 MWF, No Room Required, Independent/Directed Study; Erin Dickerson ; 1-6 cr.

## Veterinary Medicine, Graduate (VMED)

### 5101 Molecular and Cellular Basis of Nanoparticle Toxicity

(A-F or Audit; )  
10305 001 LEC, 09:00-11:00 Th, AHC ROOM TBA, In Person Term Based; Ashok Singh ; 3 cr.

### 5165 Surveillance of Foodborne Diseases and Food Safety Hazards

(Student Option; Prereq: [PUBH 5330, [professional school or grad student]] or instr consent)  
10310 001 LEC, 15:30-17:30 M, Moos Health Sci Tower 2-118, In Person Term Based; Meets With: 001 PUBH 6181; Craig Hedberg, Scott Wells ; 2 cr.

### 5180 Ecology of Infectious Disease

(Student Option; )  
10307 001 LEC, 09:45-11:00 TTh, Mayo Bldg & Additions D199, In Person Term Based; Tiffany Wolf, Amanda Beaudoin ; 3 cr.

### 5190 Seminar and Presentation Development

(S-N only; Prereq: Grad student)  
10290 001 LEC, 13:00-15:00 T, Veterinary Science 215, In Person Term Based; Sandra Godden ; 2 cr.

### 5210 Advanced Large Animal Physiology I

(Student Option; )  
10281 001 LEC, 00:00-00:00 , In Person Term Based; Erin Malone ; 1-3 cr.

### 5242 Advanced Small Animal Pathobiology III

(A-F only; Prereq CVM grad student, [DVM or foreign equivalent] degree.)  
32941 001 LEC, 08:00-08:50 M, Veterinary Science 215, 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)

10282 001 LEC, 08:00-09:00 W, AHC ROOM TBA, In Person Term Based; Troy Trumble ; 1 cr.

### 5594 Research in Veterinary Medicine

(Student Option; Prereq: Jr, instr consent)  
10299 001 LAB, 00:00-00:00 , Independent/Directed Study; Ned Patterson ; 1-4 cr.  
10308 002 LAB, 00:00-00:00 , In Person Term Based; Mark Rutherford ; 1-4 cr.  
10420 003 LAB, In Person Term Based; Larissa Minicucci ; 1-4 cr.

### 5670 Bovine Surgery Practicum

(S-N only; Prereq: [VMed grad student, [DVM or equiv foreign degree]] or instr consent)  
10291 001 LEC, 00:00-00:00 , In Person Term Based; Erin Malone ; 2 cr.

### 5895 Veterinary Public Health Integrated Learning Experience

(S-N only; )  
10465 001 IND, In Person Term Based; Larissa Minicucci ; 1-3 cr.

### 5896 Application of Veterinary Public Health

(S-N only; )  
10466 001 FWK, In Person Term Based; Larissa Minicucci ; 1-6 cr.

### 5915 Essential Statistics for Life Sciences

(A-F or Audit; )  
32863 001 LEC, 10:30-12:00 TTh, Veterinary Science 215, In Person Term Based; Meets With: 001 CMB 5915; Aaron Rendahl ; 3 cr.

### 5990 Veterinary Public Practice Seminar

(S-N only; )  
10468 001 LEC, 12:00-13:00 F, AHC ROOM TBA, In Person Term Based; Karin Hamilton ; 0.5 cr.

## Veterinary Population Medicine (VPM)

### 1550 Introduction to the horse including care, handling, and recognizing behaviors

(Student Option; )  
10304 001 LEC, 00:00-00:00 , ONLINE, Completely Online; Kelly Vallandingham ; 1 cr.

### 1901 Aquatic Toxicology, Water Safety, and the Society

(A-F only; )  
10405 001 LEC, 09:05-09:55 TTh, Bruininks Hall 420A, In Person Term Based; Ashok Singh ; 2 cr.

### 1902 Garbage, Government, and the Globe

(A-F only; )  
10406 001 LEC, 10:10-11:00 TTh, Bruininks Hall 420A, In Person Term Based; Ashok Singh ; 2 cr.

### 1903 Poison, Poisoning and Society

(A-F only; )  
10407 001 LEC, 18:15-19:55 Th, Bruininks Hall 420A, In Person Term Based; Ashok Singh ; 2 cr.

### 2400 Managed Captive Wildlife

(A-F or Audit; )  
10380 001 LEC, 11:45-13:00 TTh, Biological Sciences Cr 64, In Person Term Based; Michelle Willette ; 3 cr.

### 2451 Introductory Concepts in Raptor Rehabilitation

(A-F only; )  
35642 002 LEC, 19:00-20:30 T, No Room Required, Primarily Online; Michelle Willette ; 1 cr.

### 3850W Health and Biodiversity

(A-F only; Prereq: At least one year of college Biology or equivalent ENV,WI)  
10302 001 LEC, 13:55-15:50 T, Ruttan Hall B42, In Person Term Based; Meggan Craft ; 3 cr.

## Vienna Executive MBA (VMBA)

## Water Resources Science (WRS)

## Writing Studies (WRIT)

### 1201 Writing Studio

(A-F only; Prereq: Placement in Writ 1201)  
18387 002 DIS, 09:05-11:00 MW, Elliott Hall N647, In Person Term Based; Megan Mills-Rittmann ; 4 cr.  
18978 004 DIS, 14:30-16:25 TTh, Vincent Hall 301, 14:30-16:25 TTh, Folwell Hall 107, In Person Term Based; Jacqueline Schiappa ; 4 cr.  
21118 003 DIS, 13:25-15:20 MW, Tate Hall B45, In Person Term Based; Megan Mills-Rittmann ; 4 cr.  
33151 001 DIS, 09:05-11:00 TTh, Smith Hall 111, In Person Term Based; Alexander Champoux ; 4 cr.

### 1301 University Writing

(A-F only; Prereq: Placement in Writ 1301)  
18388 015 DIS, 09:35-10:25 Th, Coffey Hall 50, 09:35-10:25 MTW, Ruttan Hall B26, In Person Term Based; Matthew Kimlinger ; 4 cr.  
18389 016 DIS, 11:45-12:35 Th, Coffey Hall 50, 11:45-12:35 MTW, Ruttan Hall B30, In Person Term Based; Matthew Kimlinger ; 4 cr.  
18390 018 DIS, 13:55-15:50 MW, Ruttan Hall B30, In Person Term Based; Caleb Molstad ; 4 cr.  
18391 020 DIS, 08:00-08:50 MTThF, Akerman Hall 215, In Person Term Based; Katrina Healey ; 4 cr.  
18392 021 DIS, 08:00-08:50 MTThF, Appleby Hall 102, In Person Term Based; Robert Stratton ; 4 cr.  
18393 023 DIS, 09:05-09:55 MTThF, Bruininks Hall 119, In Person Term Based; Margaret Heesch ; 4 cr.  
18394 024 DIS, 09:05-09:55 MTThF, Kolthoff Hall 140, In Person Term Based; Megan Petersen ; 4 cr.  
18395 005 DIS, 09:05-11:00 MW, Akerman Hall 313, In Person Term Based; Nicole Montana ; 4 cr.  
18396 026 DIS, 10:10-11:00 MTThF, Appleby Hall 319, In Person Term Based; Mark Brenden ; 4 cr.  
18397 027 DIS, 10:10-11:00 MTThF, Appleby Hall 303, In Person Term Based; Connor Simons ; 4 cr.  
18398 003 DIS, 11:15-12:05 MTThF, Vincent Hall 301, In Person Term Based; Brian Le Lay ; 4 cr.  
18399 029 DIS, 11:15-12:05 MTThF, Amundson Hall 156, In Person Term Based; Moink Choudhury ; 4 cr.  
18400 030 DIS, 11:15-12:05 MTThF, Lind Hall 203, In Person Term Based; Purvai Aranya ; 4 cr.  
18401 031 DIS, 12:20-13:10 MTThF, Vincent Hall 213, In Person Term Based; James Countryman ; 4 cr.  
18403 033 DIS, 12:20-13:10 MTThF, Folwell Hall 112, In Person Term Based; Emily Gresbrink ; 4 cr.  
18404 035 DIS, 13:25-14:15 MTThF, Vincent Hall 301, In Person Term Based; James Countryman ; 4 cr.  
18405 036 DIS, 13:25-14:15 MTThF, Vincent Hall 364, In Person Term Based; Sarah Chandler ; 4 cr.  
18406 037 DIS, 13:25-14:15 MTThF, Amundson Hall 158, In Person Term Based; Maria Bowler ; 4 cr.  
18407 038 DIS, 14:30-15:20 MTThF, Civil Engineering Bldg 213, In Person Term Based; Angelo Volpe ; 4 cr.  
18408 039 DIS, 14:30-15:20 MTThF, Vincent Hall 364, In Person Term Based; Sarah Chandler ; 4 cr.  
18409 040 DIS, 14:30-15:20 MTThF, Vincent Hall 213, In Person Term Based; Liana Roux ; 4 cr.  
18410 046 DIS, 09:05-11:00 MW, Akerman Hall 211, In Person Term Based; Andrea Waldrep ; 4 cr.  
18411 010 DIS, 14:30-16:25 TTh, Bruininks Hall 144, In Person Term Based; Anne Fretheim ; 4 cr.  
18412 048 DIS, 11:15-13:10 MW, Akerman Hall 327, In Person Term Based; Jennifer Easler ; 4 cr.  
18413 049 DIS, 13:25-15:20 MW, Kolthoff Hall 137, In Person Term Based; Brooke White ; 4 cr.  
18414 050 DIS, 13:25-15:20 MW, Kolthoff Hall 132, In Person Term Based; Stephen Ellis ; 4 cr.  
18415 051 DIS, 15:35-17:30 MW, Appleby Hall 319, In Person Term Based; Scott Nelson ; 4 cr.  
18416 043 DIS, 15:35-16:25 MTWTh, Peik Gymnasium G65, In Person Term Based; Karen Soto ; 4 cr.  
18417 053 DIS, 08:00-09:55 WF, Lind Hall 229, In Person Term Based; Clara Biesel ; 4 cr.  
18418 007 DIS, 13:25-15:20 MW, Bruininks Hall 119, In Person Term Based; Nicole Montana ; 4 cr.  
18419 054 DIS, 08:00-09:55 WF, Lind Hall 217, In Person Term Based; Mark Anderson ; 4 cr.  
18420 057 DIS, 10:10-12:05 WF, Lind Hall 340, In Person Term Based; Mark Anderson ; 4 cr.  
18425 009 DIS, 12:20-14:15 TTh, Bruininks Hall 420A, In Person Term Based; Anne Fretheim ; 4 cr.  
18426 060 DIS, 12:20-14:15 WF, Bruininks Hal 121, In Person Term Based; Tim Gustafson ; 4 cr.  
18427 061 DIS, 14:30-16:25 WF, Nicholson Hall 110, In Person Term Based; Mark Anderson ; 4 cr.  
18428 063 DIS, 08:00-09:55 TTh, Akerman Hall 313, In Person Term Based; Tim Gustafson ; 4 cr.

18429 064 DIS, 10:10-12:05 TTh, Vincent Hall 313, In Person Term Based; Patricia Fillipi ; 4 cr.  
 18430 067 DIS, 12:20-14:15 TTh, Vincent Hall 313, In Person Term Based; Patricia Fillipi ; 4 cr.  
 18431 069 DIS, 14:30-16:25 TTh, Smith Hall 121, In Person Term Based; Mckinley Green ; 4 cr.  
 18432 175 DIS, 00:00-00:00 , ONLINE, Completely Online; Elizabeth Howard ; 4 cr.  
 18736 066 DIS, 10:10-12:05 TTh, Carlson School of Mgmt L-126, In Person Term Based; Jennifer Doane ; 4 cr.  
 18801 019 DIS, 12:50-14:45 TTh, Ruttan Hall B26, In Person Term Based; John Vanoverbeke ; 4 cr.  
 18802 028 DIS, 11:15-12:05 MTThF, Bruininks Hall 420A, In Person Term Based; Angelo Volpe ; 4 cr.  
 18975 025 DIS, 10:10-11:00 MTThF, Kolthoff Hall 140, In Person Term Based; Luke Shackelford ; 4 cr.  
 18976 052 DIS, 17:15-19:10 MW, Lind Hall 320, In Person Term Based; Ron Edwards ; 4 cr.  
 18977 056 DIS, 10:10-12:05 WF, Lind Hall 229, In Person Term Based; Tim Gustafson ; 4 cr.  
 19228 047 DIS, 11:15-13:10 MW, Appleby Hall 303, In Person Term Based; Demiliza Saramosing ; 4 cr.  
 19652 006 DIS, 11:15-13:10 MW, Bruininks Hall 119, In Person Term Based; Kimberley Strain ; 4 cr.  
 19869 044 DIS, 15:35-16:25 MTWTh, Vincent Hall 364, In Person Term Based; Laura Price ; 4 cr.  
 19870 058 DIS, 12:20-14:15 WF, Kolthoff Hall 138, In Person Term Based; Matthew Buck ; 4 cr.  
 19921 045 DIS, 09:05-11:00 MW, Akerman Hall 215, In Person Term Based; Brett Sigurdson ; 4 cr.  
 20088 017 DIS, 13:55-14:45 MTW, Ruttan Hall B22, 13:55-14:45 Th, Coffey Hall 50, In Person Term Based; Matthew Kimlinger ; 4 cr.  
 20489 070 DIS, 14:30-16:25 TTh, Kolthoff Hall 134, In Person Term Based; Teresa Fahlgren ; 4 cr.  
 20490 174 DIS, 00:00-00:00 , ONLINE, Completely Online; Maureen Aitken ; 4 cr.  
 20510 071 DIS, 15:35-17:30 TTh, Akerman Hall 227, In Person Term Based; Patricia Fillipi ; 4 cr.  
 20639 072 DIS, 17:15-19:10 TTh, Akerman Hall 317, In Person Term Based; Zi Ning Mok ; 4 cr.  
 21113 041 DIS, 08:00-08:50 MTWTh, Wulling Hall 220, In Person Term Based; Jessa Wood ; 4 cr.  
 21138 042 DIS, 08:00-08:50 MTWTh, Appleby Hall 223, In Person Term Based; Andrew Hamilton ; 4 cr.  
 21139 055 DIS, 10:10-12:05 WF, Peik Hall 375, In Person Term Based; Clare Boerigter ; 4 cr.  
 21140 059 DIS, 12:20-14:15 WF, Mechanical Engineering 221, In Person Term Based; Vanessa Ramos ; 4 cr.  
 21141 065 DIS, 10:10-12:05 TTh, Kolthoff Hall 139, In Person Term Based; Hannah Suchor ; 4 cr.  
 21142 068 DIS, 12:20-14:15 TTh, Kolthoff Hall 137, In Person Term Based; Megan Mills-Rittmann ; 4 cr.  
 21146 022 DIS, 09:05-09:55 MTThF, Vincent Hall 364, In Person Term Based; James Countryman ; 4 cr.  
 21147 032 DIS, 12:20-13:10 MTThF, Vincent Hall 364, In Person Term Based; Mikayla Davis ; 4 cr.  
 21148 034 DIS, 13:25-14:15 MTThF, Akerman Hall 313, In Person Term Based; Samantha Crain ; 4 cr.  
 33154 001 DIS, 09:05-09:55 MTThF, Vincent Hall 301, In Person Term Based; Sarah Selz ; 4 cr.  
 33155 002 DIS, 10:10-11:00 MTThF, Vincent Hall 364, In Person Term Based; Sarah Selz ; 4 cr.  
 33956 176 DIS, 00:00-00:00 , ONLINE, Completely Online; Maureen Aitken ; 4 cr.

**1401 Writing and Academic Inquiry**

(A-F only; Prereq: Placement in Writ 1401)  
 18422 003 DIS, 10:10-12:05 TTh, Smith Hall 121, In Person Term Based; Nicole Montana ; 4 cr.  
 18423 004 DIS, 12:20-14:15 TTh, Appleby Hall 223, In Person Term Based; Maureen Aitken ; 4 cr.  
 33153 001 DIS, 10:10-11:00 MTThF, Bruininks Hall 119, In Person Term Based; Angelo Volpe ; 4 cr.  
 34461 075 DIS, 00:00-00:00 , ONLINE, Completely Online; Nicole Montana ; 4 cr.

**1915W Arguing with Authority: The Past, Present, and Future of Higher Education (Student Option; CIV,WI)**

21386 001 DIS, 16:00-18:30 T, Lind Hall 303, In Person Term Based; Patrick Bruch ; 3 cr.

**1935W Writing Medicine (Student Option; WI)**

34499 001 DIS, 09:45-11:00 TTh, Akerman Hall 227, In Person Term Based; Molly Kessler ; 3 cr.

**3001 Introduction to Technical Writing and Communication (A-F only; )**

16860 001 DIS, 13:00-14:15 TTh, Bruininks Hall 131B, In Person Term Based; Brigitte Mussack ; 3 cr.

**3029W Business and Professional Writing**

(Student Option; WI)  
 18627 001 DIS, 17:30-20:00 Th, Lind Hall 340, In Person Term Based; Ryan Wold ; 3 cr.  
 18732 002 DIS, 14:30-15:45 MW, Lind Hall 303, In Person Term Based; Donald Ross Jr ; 3 cr.  
 20319 003 DIS, 11:15-12:30 MW, Lind Hall 303, In Person Term Based; Saveena Veeramoothoo ; 3 cr.  
 33526 075 DIS, Completely Online; Jeremy Rosselot-Merritt ; 3 cr.

**3101W Writing Arguments (A-F or Audit; WI)**

20448 001 DIS, 13:00-14:15 MW, Lind Hall 303, In Person Term Based; Donald Ross Jr ; 3 cr.

**3102W Public Writing (A-F only; Prereq: Soph or jr or sr CIV,WI)**

32923 002 DIS, 13:00-14:15 TTh, Lind Hall 303, In Person Term Based; Patrick Bruch ; 3 cr.

**3152W Writing on Issues of Science and Technology (A-F or Audit; WI)**

17878 001 DIS, 14:30-15:45 TTh, Lind Hall 315, In Person Term Based; Capper Nichols ; 3 cr.

**3221W Communication Modes and Methods (A-F only; WI)**

18958 001 DIS, 11:15-12:30 TTh, Nolte Center 229, In Person Term Based; Richard Graff ; 3 cr.

**3257 Technical and Professional Presentations (Student Option No Audit; )**

17492 001 LEC, 09:45-11:00 MW, Lind Hall 303, In Person Term Based; Nathan Bollig ; 3 cr.

**3291 Technical Communication Certificate Capstone Project (A-F only; Prereq: instr consent)**

16882 001 IND, Independent/Directed Study; 1 cr.

**3371W Technology, Self, and Society (A-F only; TS,WI)**

19850 001 DIS, 11:15-12:30 TTh, Lind Hall 303, In Person Term Based; Capper Nichols ; 3 cr.

**3381W Writing and Modern Cultural Movements (A-F or Audit; AH,WI)**

18959 001 DIS, 14:30-15:45 TTh, Folwell Hall 12, In Person Term Based; Thomas Reynolds ; 3 cr.

**3441 Editing, Critique, and Style (A-F only; )**

18766 001 DIS, 09:45-11:00 TTh, Nolte Center 229, In Person Term Based; Mary Schuster ; 3 cr.

**3562V Honors: Technical and Professional Writing (A-F only; WI)**

20195 001 DIS, 13:00-14:15 MW, Nolte Center 229, In Person Term Based; Meets With: 008 WRIT 3562W; Laura Gurak ; 4 cr.

**3562W Technical and Professional Writing (A-F only; WI)**

16861 006 DIS, 11:15-12:30 Th, Appleby Hall 227, 11:15-12:30 T, Appleby Hall 3, In Person Term Based; Brandi Fuglsby ; 4 cr.  
 16862 007 DIS, 11:45-12:35 F, Magrath Library 6, 11:45-12:35 MW, Ruttan Hall B26, In Person Term Based; Joe Moses ; 4 cr.  
 16863 008 DIS, 13:00-14:15 MW, Nolte Center 229, In Person Term Based; Meets With: 001 WRIT 3562V; Laura Gurak ; 4 cr.  
 16864 009 DIS, 10:10-11:00 F, Appleby Hall 128, 10:10-11:00 MW, Lind Hall 325, In Person Term Based; Jacqueline James ; 4 cr.  
 16865 010 DIS, 11:45-13:00 TTh, Magrath Library 6, In Person Term Based; Katlyne Davis ; 4 cr.  
 16866 011 DIS, 09:45-11:00 TTh, Mayo Bldg & Additions C231, In Person Term Based; Kari Campeau ; 4 cr.  
 17839 013 DIS, 17:30-20:00 T, Lind Hall 315, In Person Term Based; Capper Nichols ; 4 cr.  
 18072 075 DIS, 00:00-00:00 , ONLINE, Completely Online; Daniel Card ; 4 cr.  
 18164 076 DIS, 00:00-00:00 , ONLINE, Completely Online; Nicole Ciulla ; 4 cr.  
 18516 077 DIS, 00:00-00:00 , ONLINE, Completely Online; Evelyn Dsouza ; 4 cr.

18824 078 DIS, 00:00-00:00 , ONLINE, Completely Online; Eduardo Nevarez ; 4 cr.  
 19193 079 DIS, 00:00-00:00 , ONLINE, Completely Online; Danielle Stambler ; 4 cr.  
 19285 012 DIS, 16:40-19:10 M, Lind Hall 215, In Person Term Based; Joe Moses ; 4 cr.  
 19422 080 DIS, 00:00-00:00 , ONLINE, Completely Online; Brigitte Mussack ; 4 cr.  
 19752 081 DIS, 00:00-00:00 , ONLINE, Completely Online; Cynthia Pope ; 4 cr.  
 19978 100 DIS, 00:00-00:00 , ONLINE, Completely Online; Joe Moses ; 4 cr.  
 19979 101 DIS, 00:00-00:00 , ONLINE, Completely Online; William West ; 4 cr.  
 20118 102 DIS, 00:00-00:00 , ONLINE, Completely Online; William West ; 4 cr.  
 33172 082 DIS, Completely Online; Cynthia Pope ; 4 cr.  
 33929 095 DIS, 00:00-00:00 , ONLINE, Completely Online; William West ; 4 cr.

**3577W Rhetoric, Technology, and the Internet (A-F only; Prereq: Soph or jr or sr or instr consentS,WI)**

19627 001 DIS, 09:45-11:00 TTh, Bruininks Hall 530B, In Person Term Based; John Logie ; 3 cr.

**3671 Visual Rhetoric and Document Design (A-F only; )**

17792 001 DIS, 14:30-15:45 TTh, Keller Hall 2-260, In Person Term Based; John Logie ; 3 cr.

**3701W Rhetorical Theory for Writing Studies (A-F only; Prereq: Soph or jr or sr or instr consentWI)**

20096 001 DIS, 14:30-15:45 MW, Bruininks Hall 144, In Person Term Based; Rachel Presley ; 3 cr.

**3751W Seminar: Theory and Practice of Writing Consultancy (Student Option; Prereq: Currently working in a University writing center, instr consentWI)**

20450 001 DIS, 16:00-17:15 TTh, Nicholson Hall 12, In Person Term Based; Kirsten Jansen ; 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)**

34501 002 IND, In Person Term Based; Barbara Horvath ; 3 cr.

**3993 Directed Study (Student Option; Prereq: instr consent, dept consent, college consent)**

19947 001 IND, 00:00-00:00 , Independent/Directed Study; Angelo Volpe ; 1-4 cr.

**4431W Science, Technology, and the Law (A-F only; Prereq: Jr or sr or grad student or instr consentCIV,WI)**

20097 001 DIS, 13:00-14:15 TTh, Nolte Center 229, In Person Term Based; Mary Schuster ; 3 cr.

**4662W Writing With Digital Technologies (A-F only; Prereq: Jr or sr or instr consentWI)**

21283 001 DIS, 16:00-17:15 TTh, Keller Hall 2-260, In Person Term Based; Daniel Card ; 3 cr.

**4995H Technical Writing and Communication Honors Thesis (A-F only; )**

34586 001 IND, Independent/Directed Study; Brigitte Mussack ; 1 cr.  
 35496 002 IND, Independent/Directed Study; Lee-Ann Breuch ; 1 cr.  
 35609 003 IND, Independent/Directed Study; Thomas Reynolds ; 1 cr.

**5001 Introduction to Graduate Studies in Scientific and Technical Communication (A-F only; Prereq: Grad student or instr consent)**

19471 075 LEC, Completely Online; Laura Gurak ; 3 cr.

**5051 Graduate Research Writing for International Students (Student Option; Prereq: Grad student)**

20098 002 LEC, 09:45-11:00 TTh, Lind Hall 315, In Person Term Based; Sheryl Holt ; 3 cr.

**5196 Internship in Scientific and Technical Communication**



(S-N or Audit; )

18960 001 IND, 00:00-00:00 , , Independent/Directed Study; Ann Duin ; 3-6 cr.

**5291 Independent Study, Reading, and Research**(Student Option; Prereq: instr consent, dept consent)  
18049 001 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Card ; 1-3 cr.  
18050 002 IND, Independent/Directed Study; Sheryl Holt ; 1-3 cr.**5531 Introduction to Writing Theory and Pedagogy**(A-F or Audit; Prereq: Grad student)  
32910 001 LEC, 14:30-17:00 Th, Nolte Center 235, In Person Term Based; Lee-Ann Breuch ; 3 cr.**5662 Writing With Digital Technologies**(A-F only; )  
31849 075 DIS, Completely Online; Ann Duin ; 3 cr.**5775 The Rhetorical Tradition: Classical Period**(A-F only; )  
31851 001 LEC, 14:30-17:00 M, Nolte Center 229, In Person Term Based; Richard Graff ; 3 cr.**Youth Development and Research (YOST)****1001 Seeing Youth, Thinking Youth: Media, Popular Media, and Scholarship**  
(Student Option; CIV)15777 001 LEC, 08:45-10:00 MW, Peters Hall 155, In Person Term Based; John Gwinn ; 3 cr.  
16246 002 LEC, 08:15-09:30 TTh, Burton Hall 125, In Person Term Based; Jenna Sethi ; 3 cr.**1366 Stories of Resistance & Change: Youth, Race, Power & Privilege in the U.S.**(Student Option; DSJ,LITR)  
16454 001 LEC, 13:30-14:45 MW, Peters Hall 155, In Person Term Based; Molly Rojas Collins ; 3 cr.  
16489 002 LEC, 13:30-14:45 MW, Peters Hall 145, In Person Term Based; Ezra Hyland ; 3 cr.  
16576 003 LEC, 13:00-14:15 TTh, Appleby Hall 103, In Person Term Based; Molly Rojas Collins ; 3 cr.  
16588 004 LEC, 13:00-14:15 TTh, Elliott Hall N647, In Person Term Based; Elizabeth Tannen ; 3 cr.  
33276 005 LEC, 09:45-11:00 TTh, Elliott Hall N647, In Person Term Based; Molly Cooney ; 3 cr.**1368W Youth Global Perspectives: Stories from the Arab, Islamic, and Middle Eastern Worlds**(Student Option; GP,WI,LITR)  
16462 001 LEC, 08:30-10:25 MW, Peters Hall 39, In Person Term Based; K.C. Harrison ; 4 cr.  
16657 002 LEC, 12:50-14:45 MW, Peters Hall 39, In Person Term Based; K.C. Harrison ; 4 cr.  
16658 003 LEC, 08:00-09:55 TTh, Appleby Hall 303, In Person Term Based; K.C. Harrison ; 4 cr.**2101 Urban Youth and Youth Issues**(Student Option; Prereq: 1001 or instr consentDSJ)  
15940 001 LEC, 12:50-14:45 MW, Peters Hall 5, In Person Term Based; Saida Abdi ; 4 cr.**2241 Experiential Learning**(Student Option; Prereq: [1001, 2001] or instr consent)  
15818 001 LEC, 10:40-12:35 MW, Peters Hall 5, In Person Term Based; William Goforth ; 4 cr.**3001 Introduction to History & Philosophy of Youthwork**(Student Option; Prereq: 2xxx or instr consent)  
16325 001 LEC, 10:40-12:35 TTh, Peters Hall 5, In Person Term Based; Katie Johnston-Goodstar ; 4 cr.**3032 Adolescent and Youth Development for Youthworkers**(Student Option; Prereq: 1001 or 2001 or 2002W or 2101, [any Psych or CPsy course])  
33283 001 LEC, 08:30-10:25 TTh, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5032; Alexander Fink ; 4 cr.**3291 Independent Study in Youth Studies**  
(Student Option; Prereq: instr consent)15846 001 IND, Independent/Directed Study; Michael Baizerman ; 1-9 cr.  
15922 002 IND, Independent/Directed Study; Katie Johnston-Goodstar ; 1-9 cr.  
16003 003 IND, Independent/Directed Study; Ross VeLure Roholt ; 1-9 cr.**3325W Project-Based Writing For Education and Human Development Majors**(Student Option; Prereq: 60+ undergraduate credits, declared majorWI)  
16659 001 DIS, 10:40-12:35 MW, Peters Hall 155, In Person Term Based; Molly Rojas Collins ; 4 cr.**4196 Youthwork Internship**(Student Option; Prereq: Declaration of youth studies major, instr consent)  
15847 001 FWK, 12:50-14:45 MW, Peters Hall 280, In Person Term Based; Jessica Oliver-Tebben ; 4 cr.**4319 Understanding Youth Subcultures**(Student Option; Prereq: [1001, one basic course in [ANTH or SOC]] or instr consent)  
33288 001 LEC, 17:10-20:00 W, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5319; Michael Baizerman ; 3 cr.**4321 Work with Youth: Individual**(Student Option; Prereq: 1001 or 2101 or instr consent)  
33286 001 LEC, 15:00-16:55 T, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 5321; Julie Tilsen ; 2 cr.**4322 Work with Youth: Families**(Student Option; Prereq: 1001 or 2002W or instr consent)  
33290 001 LEC, 10:40-12:35 F, Peters Hall 80, In Person Term Based; Meets With: 001 YOST 5322; Hayley Tompkins ; 2 cr.**4325 Improving Everyday Youthwork:****Practical Program Evaluation**  
(Student Option; Prereq: [[1001 or 2101], 3234] or instr consent)  
16035 001 LEC, 08:45-10:00 MW, Peters Hall 5, In Person Term Based; Ross VeLure Roholt ; 3 cr.**5032 Adolescent and Youth Development for Youthworkers**(Student Option; Prereq: [1001 or 2001 or 2002W or 2101], [any Psych or CPsy course])  
33284 001 LEC, 08:30-10:25 TTh, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 3032; Alexander Fink ; 4 cr.**5291 Independent Study in Youth Studies**(Student Option; )  
15418 001 IND, In Person Term Based; Michael Baizerman ; 1-8 cr.  
15921 003 IND, In Person Term Based; Katie Johnston-Goodstar ; 1-8 cr.  
15965 002 IND, In Person Term Based; Ross VeLure Roholt ; 1-8 cr.  
16385 004 IND, In Person Term Based; Jerome Stein ; 1-8 cr.**5319 Understanding Youth Subcultures**(Student Option; Prereq: 2001 or one course each in [Anth, Soc] or instr consent)  
33289 001 LEC, 17:10-20:00 W, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 4319; Michael Baizerman ; 3 cr.**5321 Work With Youth: Individual**(Student Option; Prereq: 1001 or 2002W or instr consent)  
33287 001 LEC, 15:00-16:55 T, Peters Hall 5, In Person Term Based; Meets With: 001 YOST 4321; Julie Tilsen ; 2 cr.**5322 Work With Youth: Families**(Student Option; Prereq: 1001 or 2002W or instr consent)  
33291 001 LEC, 10:40-12:35 F, Peters Hall 80, In Person Term Based; Meets With: 001 YOST 4322; Hayley Tompkins ; 2 cr.**5952 Everyday Lives of Youth**

(A-F or Audit; )

16085 001 DIS, 18:00-20:45 T, Peters Hall 5, In Person Term Based; Michael Baizerman ; 3 cr.

**5956 Organizational Approaches to Youth Development**(A-F or Audit; )  
16086 001 DIS, 18:00-20:45 M, Peters Hall 5, In Person Term Based; Jennifer Skuza ; 3 cr.**5960 Seminar in Youth Development Leadership**(S-N or Audit; Prereq: YDL student or instr consent)  
16087 002 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
16120 001 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
16121 003 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
16122 004 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.  
16383 005 LEC, In Person Term Based; Ross VeLure Roholt ; 1 cr.**5962 Leadership Field Experience: Youth Development**(S-N only; Prereq: YDL student)  
16088 001 FWK, In Person Term Based; Deborah Moore ; 4 cr.