HOW TO USE THIS SCHEDULE

Class Number — This five-digit number appears to the left of each course or each section of a course. You must use this number when you register.

Prerequisites — In order to register in some courses, you must either complete or concurrently enroll in certain other course or possess some particular qualifications or class standing. These requirements, known as prerequisites, are listed inside the parentheses after the course titles. If no prerequisites are listed, there are none, except for the class standing requirement indicated by the course number. Students attempting to register in courses for which the prerequisites have not been met must obtain a permission number from the appropriate instructor and/or department.

Class standing requirements, unless otherwise noted, are indicated by course numbers as follow:

0xxx Courses that do not carry credit toward any University degree.
1xxx Courses primarily for undergraduate students in their first year of study.
2xxx Courses primarily for undergraduate students in their second year of study.
3xxx Courses primarily for undergraduate students in their third year of study.
4xxx Courses primarily for undergraduate students in their fourth year of study.
4xxx courses can be applied to a Graduate School degree with approval by the student’s major field and if taught by a member of the graduate faculty or an individual authorized by the program to teach at the graduate level.
5xxx Courses primarily for graduate students; undergraduate students in their third or fourth year may enroll in such courses.
6xxx Courses for post-baccalaureate students in professional degree programs.
7xxx Courses for post-baccalaureate students in professional degree programs. 6xxx and 7xxx courses are to be used primarily for post-baccalaureate professional programs that are not offered through the Graduate School.
8xxx Courses for graduate students.

When no departmental designation precedes the course number listed as a prerequisite (e.g., “prereq 3221”), that course is in the same department as the course being offered. Like-wise, a prerequisite reading “6 cr” means 6 credits in courses offered by the same department. See your college or department for further information. Departments and colleges may use the registration system to help place certain categories of qualified students into courses or sections on a priority basis (seniors, majors, etc.). If you meet all stated prerequisites for the course, including class standing, you may also need to meet other qualifications established at the time of registration. For this reason, it is helpful to think about first and second course choices.

Class Standing — Your semester class standing is determined by the number of credits you have completed:

- Freshman...............................................1-29 credits
- Sophomore...........................................30-59 credits
- Junior....................................................60-89 credits
- Senior..........................................90 or more credits

Each quarter credit is worth 2/3 of a semester credit. For example, if you have 60 quarter credits, they translate to 40 semester credits; 80 quarter credits = 53.33 semester credits; 100 quarter credits = 66.67 semester credits; and 140 quarter credits = 93.33 semester credits. Your adviser can help you stay on track for semesters.

Section Abbreviations — Sections of a course have abbreviations that indicate, in a general manner, the format of the course or section.

- DIS..........................................................Discussion
- IND.......................................................Independent/Directed Studies
- LAB........................................................Laboratory
- LEC..........................................................Lecture
- LET.........................................................Lecture Workaround
- EXC........................................................Extra Credit
- FWK.........................................................Field Work
- ROT..............................................................Rotation

Liberal Education Program (LEP) — Liberal Education is an essential part of your undergraduate education at the University of Minnesota. (DLE) or (LE) courses help you investigate the world from new perspectives, learn ways of thinking that will be useful to you in many areas of your life, and grow as an active citizen and lifelong learner. If you are unsure which requirements apply to you, contact your academic adviser. For more information see http://d.umn.edu/onestop/degree-planning/lib-eds/
No Time or Place — When hours and days or the place of meeting are missing, consult the instructor or department offering the course.

Choice of Classes — When class numbers and section numbers precede the hours and days listed you may choose the section in which you wish to enroll (see the first example below). Many courses have a choice of laboratory or discussion sections, but only a single lecture section, in which all students taking the course are automatically registered. This lecture section will have no class number before it, signifying an automatic registration (see example 2, below). If laboratory or discussion sections are distributed under different lecture hour headings (as in example 3, below), then your choice of laboratory or discussion hours determines in which lecture you are automatically registered.

Example 1
31533 001 LEC, 08:00am-09:40am TThS
11533 002 LEC, 09:00am-10:05am MWF
12533 003 LEC, 12:00pm-01:40pm TThS

Example 2
001 LEC, 10:15am-11:20am MWF
81533 002 LAB, 12:00pm-01:40pm M
61533 003 LAB, 12:00pm-01:40pm W

Example 3
001 LEC, 08:00am-09:40am T
41533 002 LAB, 10:00am-11:40am T
21533 003 LAB, 10:00am-11:40am Th
004 LEC, 11:00am-12:40am Th
11533 005 LAB, 02:00pm-03:40pm T
64574 006 LAB, 02:00pm-03:40pm Th
81600 007 LET, 09:00am-09:50am MWF
(stand-alone lecture without lab for courses which usually have a lab)

Grading Option — If either ‘A-F only’ or ‘S-N only’ is printed in the prerequisite statement for a course, you must register in that grading system. If no grading system is listed, you may often register in either A-F or S-N grading. For information on courses offered for S-N grading and any degree or semester limits on credits taken under this system, consult both your own college office and the college offering the course. You may not change your grading option after the second week of classes.

Course Changes — See under “Registration Information > Class Schedule > Online Version” on the Web at http://www.d.umn.edu/courseinfo/ for the most current and accurate information.
## American Indian Studies (AMIN)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>70420</td>
<td>American Indian Literary (A-F or Audit)</td>
<td>3 cr.</td>
<td>Credit will not be granted if already received for 1100.CIVILIZATION,HUMANITIES</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>---------</td>
</tr>
<tr>
<td>81042 001 IND</td>
<td>Individual Study in Photography</td>
<td>Gloria DeFilipps</td>
<td>3 cr.</td>
</tr>
<tr>
<td>80405 001 LEC</td>
<td>12:00-15:25 MWTh, A B Anderson Hall 135, In Person Term Based; Meets With: 001 ART 1405001 ART 2400001 ART 3400001 ART 4400; Elizabeth James</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>3400 Ceramics II</td>
<td>(A-F or Audit; Prereq: 2400 or instructor consent)</td>
<td>Jennifer Dietrich</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4600 Photography: Digital Portfolio</td>
<td>(A-F or Audit; Prereq: 1900, 1607 or 2600, 15% or art or photography minor or instructor consent)</td>
<td>Miss Mary Zhai</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4793 Intermedia Studio</td>
<td>(A-F or Audit; Prereq: 2 semesters work in each subject area with instructor consent)</td>
<td>Robert Repp</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4922 Senior Design Studio I</td>
<td>(A-F or Audit; Prereq: 3933 or 3937 or instructor consent, no grad credit)</td>
<td>Lynne Bemis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4501 General Microbiology</td>
<td>(A-F or Audit; Prereq: 2101 or BIOS grad student)</td>
<td>George Trachte</td>
<td>3 cr.</td>
</tr>
<tr>
<td>3031 Computational Methods in Chemical Engineering</td>
<td>(A-F or Audit; Prereq: 2111, Math 3280, (prereq or Core 5121))</td>
<td>Roger Reinsch</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4591 Problems in Medical Behavioral Sciences</td>
<td>(A-F or Audit; Prereq: Med or upper div or Grad Student, instructor consent; max 6 or to grad program)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>5046 Photography: The Photographic Book</td>
<td>(A-F or Audit; Prereq: 4600, 4000 or photography minor or instructor consent)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>4991 Individual Study in Drawing</td>
<td>(A-F or Audit; Prereq: 2 semesters of drawing, instructor consent)</td>
<td>Robert Repp</td>
<td>3 cr.</td>
</tr>
<tr>
<td>2512 Biology of HIV and AIDS</td>
<td>(A-F or Audit; Prereq: 1012)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>3101 Molecular Biology of Cancer</td>
<td>(A-F or Audit; Prereq: 2101)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>3993 Laboratory Teaching Experience</td>
<td>(S-N or Audit; Prereq: instructor consent required, Biol or cell bio major, 90 or incl 25 or Biol; max 2 or may be applied toward Biol major)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>3396 Internship in Biology</td>
<td>(S-N or Audit; Prereq: A grade of C- or better in both 1011 and 1012; department consent required; max 1 cr may be applied to Biol or cell bio major)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>2001 The Legal Environment</td>
<td>(A-F only; Prereq: Minimum 30 credits/HUMANITIES)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>3296 Cooperative Education I</td>
<td>(A-F or Audit; Prereq: BSChE cand, department consent)</td>
<td>Richard Davis</td>
<td>2 cr.</td>
</tr>
<tr>
<td>3971 Independent Study</td>
<td>(Student Option; Prereq: BSChE cand, department consent)</td>
<td>Richard Davis</td>
<td>2 cr.</td>
</tr>
<tr>
<td>80717 002 IND</td>
<td>00:00-00:00 , In Person Term Based; Richard Davis</td>
<td>1-3 cr.</td>
<td></td>
</tr>
<tr>
<td>80875 001 LEC</td>
<td>9:00-12:00 MTWTh, James I Swenson Sci Bldg 216, In Person Term Based; John Dahl</td>
<td>3 cr.</td>
<td></td>
</tr>
<tr>
<td>3101 Molecular Biology of Cancer</td>
<td>(A-F or Audit; Prereq: 2101)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>2512 Biology of HIV and AIDS</td>
<td>(A-F or Audit; Prereq: 1012)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
<tr>
<td>2001 The Legal Environment</td>
<td>(A-F only; Prereq: Minimum 30 credits/HUMANITIES)</td>
<td>Richard Davis</td>
<td>3 cr.</td>
</tr>
</tbody>
</table>

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### Chemistry (CHEM)

#### 1153 General Chemistry I
- **Course Code:** CHEM 1153
- **Credits:** 3 credits
- **Prerequisites:** One year of high school chem, high school algebra, Math ACT 21 or higher or a grade of least C- in Math 1005. Credit will not be granted if already received for 1151, 1161 or 1174.
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 421
- **Description:** This course covers the fundamentals of general chemistry, including stoichiometry, solutions, and thermodynamics.

#### 1154 General Chemistry Lab I
- **Course Code:** CHEM 1154
- **Credits:** 1 credit
- **Prerequisites:** CHEM 1153
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This lab course provides hands-on experience in the concepts covered in CHEM 1153.

#### 2222 Quantitative Analysis
- **Course Code:** CHEM 2222
- **Credits:** 3 credits
- **Prerequisites:** CHEM 1153 or 1161
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of quantitative analysis, including titration methods and chromatography.

#### 3322 Biochemistry
- **Course Code:** CHEM 3322
- **Credits:** 3 credits
- **Prerequisites:** CHEM 2222 or equivalent
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of biochemistry, including protein structure and function.

#### 594 Directed Research in Chemistry
- **Course Code:** CHEM 594
- **Credits:** 1-3 credits
- **Prerequisites:** CHEM 1153 or 1161
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of chemistry.

#### 7777 Thesis Credits: Master's
- **Course Code:** CHEM 7777
- **Credits:** 1-3 credits
- **Prerequisites:** CHEM 594
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research for their master's thesis.

### Civil Engineering (CE)

#### 3016 Surveying
- **Course Code:** CE 3016
- **Credits:** 3 credits
- **Prerequisites:** CE 2222
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of surveying, including land measurement and mapping.

#### 4596 Cooperative Education I
- **Course Code:** CE 4596
- **Credits:** 3 credits
- **Prerequisites:** CE 2222 and CE 3322
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of civil engineering.

#### 4991 Independent Study in Civil Engineering
- **Course Code:** CE 4991
- **Credits:** 1-3 credits
- **Prerequisites:** CE 4596
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of civil engineering.

#### 7877 Thesis Credits: Master's
- **Course Code:** CE 7877
- **Credits:** 1-3 credits
- **Prerequisites:** CE 4991
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research for their master's thesis.

### Coaching (CC)

#### 3150 Coaching Methods
- **Course Code:** CC 3150
- **Credits:** 3 credits
- **Prerequisites:** Coaching minor or instructor consent
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of coaching, including strategies for successful coaching.

### Communication (COMM)

#### 1112 Public Speaking
- **Course Code:** COMM 1112
- **Credits:** 1-3 credits
- **Prerequisites:** COMM 1012
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of public speaking, including speech preparation and delivery.

#### 3300 Teaching Assistantship in Communication
- **Course Code:** COMM 3300
- **Credits:** 1-3 credits
- **Prerequisites:** COMM 1012
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of communication.

#### 3310 Research Assistant in Communication
- **Course Code:** COMM 3310
- **Credits:** 1-3 credits
- **Prerequisites:** COMM 1012
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of communication.

### College of Liberal Arts (CLA)

#### 1199 Applied Leader(ship) Practicum
- **Course Code:** CLA 1199
- **Credits:** 1-3 credits
- **Prerequisites:** Communication major or minor
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course provides opportunities for students to conduct research in the field of communication.

### College of Science and Engineering (SCE)

#### 335 Intercultural Communication
- **Course Code:** SCE 335
- **Credits:** 3 credits
- **Prerequisites:** SCE 2222
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of intercultural communication, including communication in diverse cultural contexts.

#### 3560 Video Game Entertainment
- **Course Code:** SCE 3560
- **Credits:** 3 credits
- **Prerequisites:** SCE 2222
- **Instructor:** Michael Rother
- **Location:** Engineering Building, Room 254
- **Description:** This course covers the fundamentals of video game entertainment, including game design and development.

### Other Courses

#### 80969 001 LAB, 10:00-16:00 MTWTh, Engineering Building 163, In Person Term Based: Meets With: 001 CHE 3211; Michael Rother; 3 cr.

#### 80465 001 IND, 00:00-00:00, Independent/Directed Study; 1-12 cr.
1100 Phonetics  
(A-F only; Prereq: CSD candidate or instructor consent)  
80940 001 LEC, Completely Online; Jolene Hyppa Martin ; 2 cr.

2230 Introduction to Human Communication Disorders  
(Student Option; SOC SCLDIVERSITY)  
80929 001 LEC, Completely Online; Kent Brorson ; 3 cr.

2400 Clinical Observation of Communication Disorders  
(A-F or Audit; Prereq: 2230 or instructor consent)  
80928 001 DSS, Completely Online; Kent Brorson ; 1 cr.

3130 Language Development and Disorders  
(A-F only; Prereq: Pre-IESE major or pre-UECH, or instructor consent)  
80447 030 LEC, 9:30-12:30 MTWThF, Chester Park 122, In Person Term Based; Kent Brorson ; 4 cr.

5091 Independent Study  
(Student Option; Prereq: CSD candidate with 90 cr or CSD Grad student)  
80484 001 IND, Independent/Directed Study; Mark Mizuko ; 1-3 cr.

5097 Off campus Professional Practicum in Communication Sciences and Disorders  
(A-F or Audit; Prereq: instructor consent)  
80491 001 FWK, In Person Term Based; Lynette Carson ; 2-6 cr.

5205 Pediatric Dysphagia  
(A-F or Audit; Prereq: CSD Graduate Student or instructor consent)  
80937 001 LEC, 12:00-14:45 MTWThF, Chester Park 124, In Person Term Based; Sharyl Samargia ; 1 cr.

5230 Advanced Applications in Communication Modalities  
(Student Option; Prereq: grad or instructor consent)  
82099 030 LEC, 8:00-10:45 MTWThF, Chester Park 124, In Person Term Based; Mark Mizuko ; 4 cr.

5260 Seminars in Orofacial Disorders  
(A-F only; Prereq: 3103)  
80850 010 LEC, 12:00-14:45 MTWThF, Chester Park 124, In Person Term Based; Dana Collins ; 2 cr.

5302 Language Disorders in School-Age Children  
(A-F or Audit; Prereq: CSD grad student or instructor consent)  
87835 001 LEC, 9:30-11:45 TTHF, Chester Park 124, In Person Term Based; Jolene Hyppa Martin ; 2 cr.

8211 Professional Issues in Communication Disorders I  
(A-F or Audit; Prereq: CSD Graduate student or instructor consent)  
87870 001 LEC, 12:00-15:15 F, Chester Park 208, In Person Term Based; Lynette Carson ; 1 cr.

8231 Neurogenic Speech Disorders  
(Student Option; Prereq: CSD grad student or instructor consent)  
87870 001 LAB, 8:00-9:15 MTWTh, Chester Park 124, In Person Term Based; Dana Collins ; 3 cr.

8997 Graduate Practicum in Communication Disorders  
(A-F or Audit; Prereq: CSD grad student or instructor consent)  
80936 003 FWK, Independent/Directed Study; Jill Tschekoskur ; 1 cr.

8998 Graduate Practicum in Communication Disorders  
(A-F or Audit; Prereq: CSD grad student or instructor consent)  
80936 003 FWK, Independent/Directed Study; Jill Tschekoskur ; 1 cr.

Computer Science (CS)  
3996 Internship in Computer Science  
(S-N or Audit; Prereq: Computer science junior, instructor consent)  
80385 001 FWK, 9:00-00:00 , , Independent/Directed Study; Timothy Colburn ; 1-3 cr.

4991 Independent Study  
(A-F or Audit; Prereq: instructor consent)  
80386 001 IND, 9:00-00:00 , , Independent/Directed Study; Hudson Turner ; 1-4 cr.

5991 Independent Study  
(A-F or Audit; Prereq: instructor consent)  
80510 001 IND, 9:00-00:00 , , Independent/Directed Study; Hudson Turner ; 1-4 cr.

8775 Theses Credits: Master's  
(No Grade Associated; Prereq: Max 18 cr per semester or summer; 12 or total required (Plan A only))  
80431 001 IND, 9:00-00:00 , , Independent/Directed Study; Hudson Turner ; 1-24 cr.

Criminology (CRIM)  
1301 Introduction to Criminology  
(A-F or Audit; Prereq: credit will not be granted if credit received for SOC 301SOC SCI)  
80825 001 LEC, 9:00-00:00 , ONLINE, Completely Online; Jeffrey Maahs ; 4 cr.

3338 Sociology of Gangs  
(A-F or Audit; Prereq: 30 credits or instructor consent, credit will not be granted if already received for SOC 3338)  
80874 001 LEC, 9:00-00:00 , ONLINE, Completely Online; John Arthur ; 3 cr.

3355 Criminal Forensic Psychology  
(A-F or Audit; Prereq: minimum 20 credits, Crim major or instructor consent)  
80915 001 LEC, 9:00-00:00 , , Completely Online; Jacqueline Buffington ; 3 cr.

4340 Race, Crime and Justice  
(A-F or Audit; Prereq: 1301 or SOC 1101 or Anthrop 1023, 60 credits or grad student or instructor consent; credit will not be granted if already received for SOC 4340)  
80826 001 LEC, 9:00-00:00 , , Completely Online; Emily Gaarder ; 3 cr.

4391 Independent Study in Criminology  
(A-F or Audit; Prereq: instructor consent; maximum 6 credits allowed between SOC 4991 and CRIM 4391, no grad credit)  
80735 002 IND, 9:00-00:00 , , Independent/Directed Study; Robert Weinzer ; 1-6 cr.

8900 Directed Readings  
(A-F or Audit; Prereq: Grad student or instructor consent)  
80816 001 IND, 9:00-00:00 , , Independent/Directed Study; Jeffrey Maahs ; 1-6 cr.

80821 001 IND, 9:00-00:00 , , Independent/Directed Study; Jeffrey Maahs ; 1-6 cr.

Economics (ECON)  
2025 Educating the Human Brain  
(A-F or Audit; Prereq: SOC SCI)  
80860 001 LEC, Completely Online; Molly Hamey ; 3 cr.

3000 Children in Health Care Settings  
(A-F or Audit; )  
80439 001 LEC, Completely Online; 3 cr.

4214 Teaching Content-Area Reading  
(A-F or Audit; )  
80489 001 LEC, Completely Online; Christopher Johnson ; 2 cr.

Education (EDUC)  
1101 Education in Modern Society  
(A-F or Audit; HUMANITIES)  
80838 001 LEC, Completely Online; Daniel Glisiczinski ; 3 cr.

3412 The Computer in Education  
(A-F or Audit; )  
80407 030 LEC, 8:00-15:00 MTWThF, Montague Hall 209, Partially Online; Meets With: 030 EDUC 3412 ;, Erin Pepelnjak ; 4 cr.

4234 Science, Technology, and Society  
(A-F or Audit; Prereq: Minimum 30 credits, no grad creditsSUSTAIN)  
80914 001 LEC, Completely Online; Elizabeth Ruark ; 3 cr.

5412 The Computer in Education  
(A-F or Audit; )  
80852 030 LEC, 8:00-15:00 MTWThF, Montague Hall 209, Partially Online; Meets With: 030 EDUC 3412 ;, Erin Pepelnjak ; 4 cr.

Education, Secondary (EDSE)  
4214 Teaching Content-Area Reading  
(A-F or Audit; )  
80489 001 LEC, Completely Online; Christopher Johnson ; 2 cr.
### Schedule

Class Schedule at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class University of Minnesota - Class Schedule for Duluth Campus Summer 2016

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>80759 001 FWK</td>
<td>Independent/Directed Study; 6 cr.</td>
<td></td>
<td>6 cr.</td>
</tr>
<tr>
<td>6998 Internship: Superintendents</td>
<td></td>
<td></td>
<td>1 cr.</td>
</tr>
<tr>
<td>80758 001 LEC</td>
<td>Completely Online; 1 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5923 Field Exploration</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>87848 001 LEC</td>
<td>Completely Online; Julia Williams; 3 cr.</td>
<td></td>
<td>3 cr.</td>
</tr>
<tr>
<td>80624 001 LEC</td>
<td>Completely Online; Christopher Johnson; 3 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5918 Continuous Improvement Processes for Schools</td>
<td>Student Option; Prereg: EdAd lic program or collegiate graduate program admission or instructor consent</td>
<td>87848 001 LEC; Completely Online; Julia Williams; 3 cr.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>5997 Professional Competency Assessment: Principals</td>
<td>(A-F or Audit; Prereg: EdAd lic program or collegiate graduate program admission or instructor consent)</td>
<td>80649 001 LEC; In Person Term Based; 2 cr.</td>
<td>2 cr.</td>
</tr>
<tr>
<td>5998 Professional Competency Assessment: Superintendents</td>
<td>(A-F or Audit; Prereg: EdAd lic program or collegiate graduate program admission or instructor consent)</td>
<td>80785 001 LEC; Completely Online; 1 cr.</td>
<td>1 cr.</td>
</tr>
<tr>
<td>6990 Internship in Teaching for Administrators</td>
<td>(A-F or Audit; Prereg: Admission to the Ed Ad program)</td>
<td>81000 001 FWK; Independent/Directed Study; 3 cr.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>6997 Internship: Principals</td>
<td>(S-N only; Prereg: EdAd lic program or collegiate graduate program admission or instructor consent)</td>
<td>87848 001 FWK; In Person Term Based; 6 cr.</td>
<td>6 cr.</td>
</tr>
<tr>
<td>6998 Internship: Superintendents</td>
<td>(S-N only; Prereg: EdAd lic program or collegiate graduate program admission or instructor consent)</td>
<td>80785 001 FWK; Independent/Directed Study; 6 cr.</td>
<td>6 cr.</td>
</tr>
<tr>
<td>4991 Independent Study</td>
<td>(A-F or Audit; Prereg: instructor consent; does not qualify as EE or ECE technical elective)</td>
<td>80986 001 IND; 00:00-00:00 , Independent/Directed Study; Scott Nott; 1-3 cr.</td>
<td>1-3 cr.</td>
</tr>
<tr>
<td>4992 Readings in Recreation</td>
<td>(A-F or Audit; Prereg: instructor consent; no grad credit; credit will not be granted if already received for ES 4001)</td>
<td>80487 001 IND; , Independent/Directed Study; Michael Mageau; 1-3 cr.</td>
<td>1-3 cr.</td>
</tr>
<tr>
<td>3310 Outdoor Leadership Field Experience</td>
<td>(A-F or Audit; Prereg: Ken Gilbertson, Danny Frank; 2 cr.)</td>
<td></td>
<td>2 cr.</td>
</tr>
<tr>
<td>87941 002 FWK</td>
<td>Independent/Directed Study; Danny Frank; 3 cr.</td>
<td></td>
<td>3 cr.</td>
</tr>
<tr>
<td>87942 003 FWK</td>
<td>Independent/Directed Study; Ken Gilbertson; 3 cr.</td>
<td></td>
<td>3 cr.</td>
</tr>
<tr>
<td>5800 Sustainability Education: Methods and Strategies</td>
<td>(A-F or Audit; Prereg: Minimum 60 credits or Environmental Education Certificate or Graduate student or instructor consent)</td>
<td>87941 003 DIS, 9:00-15:00 MTWThF; Sports and Health Center 9; In Person Term Based; Ken Gilbertson; 3 cr.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>5900 Research Project</td>
<td>(S-N only; Prereg: instructor consent)</td>
<td>80949 001 IND; Independent/Directed Study; Julie Ernst; 1-6 cr.</td>
<td>1-6 cr.</td>
</tr>
<tr>
<td>5919 Independent Study</td>
<td>(A-F or Audit; Prereg: Certificate or Masters Environmental Education student, instructor consent)</td>
<td>81076 001 IND; Independent/Directed Study; Julie Ernst; 1-6 cr.</td>
<td>1-6 cr.</td>
</tr>
<tr>
<td>5992 Readings in Environmental Education</td>
<td>(A-F or Audit; Prereg: Certificate or Master Environmental Education student or instructor consent)</td>
<td>81078 003 IND; Independent/Directed Study; Ken Gilbertson; 1-6 cr.</td>
<td>1-6 cr.</td>
</tr>
<tr>
<td>3291 Independent Study</td>
<td>(Student Option; Prereg: instructor consent)</td>
<td>81011 001 IND; In Person Term Based: 1-3 cr.</td>
<td>1-3 cr.</td>
</tr>
<tr>
<td>3296 Internship in Environmental Science</td>
<td>(S-N only; Prereg: Environmental Science major and instructor consent)</td>
<td>80733 001 FWK, 00:00-00:00 , Independent/Directed Study; 1-2 cr.</td>
<td>1-2 cr.</td>
</tr>
<tr>
<td>3300 Human Biomathematics</td>
<td>(A-F or Audit; Prereg: HLT 2030, PHYS 1001, minimum 60 credits, Exercise Science major or instructor consent)</td>
<td>80622 001 LAB, 9:30-13:30 MTWThF, Ward Wells Field House 20, 9:30-13:30 MTWThF, Sports and Health Center 208, 9:30-13:30 MTWThF, Sports and Health Center 205, In Person Term Based; Morris Levy; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4700 Statistics and Research Methods in Exercise Science</td>
<td>(A-F or Audit; Prereg: 12 cr from 3200, 3300, 3400, 3410, Exercise Science major, no grad credit)</td>
<td>80652 001 LEC, 8:00-10:50 MTWThF, Sports and Health Center 207, In Person Term Based; Charles Foutaine; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4996 Internship</td>
<td>(S-N or Audit; Prereg: 3420, Exercise Science major, instructor consent; no grad credit)</td>
<td>80491 001 FWK; Independent/Directed Study; Charlene Harkins; 3-12 cr.</td>
<td>3-12 cr.</td>
</tr>
<tr>
<td>5591 Independent Study</td>
<td>(Student Option; Prereg: department consent)</td>
<td>80429 001 LAB, 00:00-00:00 , In Person Term Based; 1-8 cr.</td>
<td>1-8 cr.</td>
</tr>
<tr>
<td>6462 Family Medicine Preceptorship</td>
<td>(P-N or Audit; Prereg: Regis med student)</td>
<td>80876 001 FWK, 00:00-00:00 , In Person Term Based; James Bourget; 3 cr.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>6957 Medical Education for Diversity and Service</td>
<td>(P-N only; Prereg: UMD Med School student)</td>
<td>80642 001 DIS, 00:00-00:00 , In Person Term Based; Jacob Prunuske; 1 cr.</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>

**Environmental Science (ESCI)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3300 Human Biomathematics</td>
<td>(A-F or Audit; Prereg: HLT 2030, PHYS 1001, minimum 60 credits, Exercise Science major or instructor consent)</td>
<td>80622 001 LAB, 9:30-13:30 MTWThF, Ward Wells Field House 20, 9:30-13:30 MTWThF, Sports and Health Center 208, 9:30-13:30 MTWThF, Sports and Health Center 205, In Person Term Based; Morris Levy; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4700 Statistics and Research Methods in Exercise Science</td>
<td>(A-F or Audit; Prereg: 12 cr from 3200, 3300, 3400, 3410, Exercise Science major, no grad credit)</td>
<td>80652 001 LEC, 8:00-10:50 MTWThF, Sports and Health Center 207, In Person Term Based; Charles Foutaine; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4996 Internship</td>
<td>(S-N or Audit; Prereg: 3420, Exercise Science major, instructor consent; no grad credit)</td>
<td>80491 001 FWK; Independent/Directed Study; Charlene Harkins; 3-12 cr.</td>
<td>3-12 cr.</td>
</tr>
</tbody>
</table>

**Exercise Science Athletic Trng (ESAT)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3300 Human Biomathematics</td>
<td>(A-F or Audit; Prereg: HLT 2030, PHYS 1001, minimum 60 credits, Exercise Science major or instructor consent)</td>
<td>80622 001 LAB, 9:30-13:30 MTWThF, Ward Wells Field House 20, 9:30-13:30 MTWThF, Sports and Health Center 208, 9:30-13:30 MTWThF, Sports and Health Center 205, In Person Term Based; Morris Levy; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4700 Statistics and Research Methods in Exercise Science</td>
<td>(A-F or Audit; Prereg: 12 cr from 3200, 3300, 3400, 3410, Exercise Science major, no grad credit)</td>
<td>80652 001 LEC, 8:00-10:50 MTWThF, Sports and Health Center 207, In Person Term Based; Charles Foutaine; 4 cr.</td>
<td>4 cr.</td>
</tr>
<tr>
<td>4996 Internship</td>
<td>(S-N or Audit; Prereg: 3420, Exercise Science major, instructor consent; no grad credit)</td>
<td>80491 001 FWK; Independent/Directed Study; Charlene Harkins; 3-12 cr.</td>
<td>3-12 cr.</td>
</tr>
</tbody>
</table>

**Family Medicine (FMED)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5591 Independent Study</td>
<td>(Student Option; Prereg: department consent)</td>
<td>80429 001 LAB, 00:00-00:00 , In Person Term Based; 1-8 cr.</td>
<td>1-8 cr.</td>
</tr>
<tr>
<td>6462 Family Medicine Preceptorship</td>
<td>(P-N or Audit; Prereg: Regis med student)</td>
<td>80876 001 FWK, 00:00-00:00 , In Person Term Based; James Bourget; 3 cr.</td>
<td>3 cr.</td>
</tr>
<tr>
<td>6957 Medical Education for Diversity and Service</td>
<td>(P-N only; Prereg: UMD Med School student)</td>
<td>80642 001 DIS, 00:00-00:00 , In Person Term Based; Jacob Prunuske; 1 cr.</td>
<td>1 cr.</td>
</tr>
</tbody>
</table>
### Class Schedule at http://onestop.umn.edu

IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule. This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online University of Minnesota - Class Schedule for Duluth Campus Summer 2016.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80415 001 FWK</td>
<td>7100 Clinical Family Medicine</td>
<td>(P-N or Audit; Prereq: department consent)</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80524 001 LEC</td>
<td>Finance &amp; Management Info (FMIS)</td>
<td>Completely Online; Seung Lee</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80386 001 LEC</td>
<td>2201 Information Technology in Business (A-F or Audit; Prereq: LSBE student or Graphic Design and Marketing major or Computer Information Systems majors or minors, minimum 15 credits or college consent)</td>
<td>Complete Online; Abram Anders</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80314 001 LEC</td>
<td>3141 Business Communications</td>
<td>Completely Online; Junhua Wang</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80393 001 LEC</td>
<td>3291 Independent Study MIS (A-F only; Prereq: department consent)</td>
<td>Independent/Directed Study; Dahui Li</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80415 001 FWK</td>
<td>3601 Corporate Finance</td>
<td>Independent/Directed Study; Angie Soderberg</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80378 001 LEC</td>
<td>3644 Investment Fundamentals</td>
<td>Ed Endazhi-gikinoo’amasing 51, In Person Term Based; Gokhan Yilmaz</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80540 001 LEC</td>
<td>3649 International Finance</td>
<td>Ed Endazhi-gikinoo’amasing 51, In Person Term Based; Manjeet Dhatt</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80514 001 LEC</td>
<td>3691 Independent Study Finance</td>
<td>Independent/Directed Study; Angie Soderberg</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80573 001 IND</td>
<td>3697 Finance Internship (A-F or Audit; Prereq: admitted to LSBE candidacy, consent of internship director, credit will not be granted if already received for FMIS 3397)</td>
<td>Independent/Directed Study; Dahui Li</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80577 001 FWK</td>
<td>Foreign Studies (FRS)</td>
<td>Completely Online; Seung Lee</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88501 001 LEC</td>
<td>Foreign Studies (FRS)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88531 001 LEC</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Gang Fang</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88490 001 LEC</td>
<td>Foreign Studies (FRS)</td>
<td>Study Abroad; Robert Repinski</td>
<td>2-3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88491 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>1-2 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88499 001 LEC</td>
<td>Foreign Studies (FRS)</td>
<td>Study Abroad; Robert Repinski</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88502 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>1-2 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88501 001 LEC</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>1-2 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>1-2 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
</tbody>
</table>

### Foreign Studies (FOR) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80396 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Junhua Wang</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80573 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80575 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80557 002 FWK</td>
<td>Foreign Studies (FST)</td>
<td>La Cantera</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80556 001 LEC</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80556 002 FWK</td>
<td>Foreign Studies (FST)</td>
<td>La Cantera</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>80555 001 FWK</td>
<td>Foreign Studies (FST)</td>
<td>La Cantera</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
</tbody>
</table>

### Foreign Studies (FST) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
</tbody>
</table>

### Foreign Studies (FST) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
</tbody>
</table>

### Foreign Studies (FST) 

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
<tr>
<td>88500 001 IND</td>
<td>Foreign Studies (FST)</td>
<td>Study Abroad; Jennifer Webb</td>
<td>3 cr.</td>
<td>00:00-00:00</td>
<td>ONLINE</td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
4091 Geologic Problems and Research (A-F or Audit; Prereq: instructor consent, no grad credit)
80121 001 IND, In Person Term Based; 1-2 cr.

4500 Field Geology (A-F or Audit; Prereq: 4450, department consent; no grad credit)
80341 001 FWK, Independent/Directed Study; Karen Gran, Christina Gallup; 6 cr.

5091 Geologic Problems (Student Option; Prereq: Graduate Student or instructor consent)
81013 001 IND, In Person Term Based; 1-2 cr.

8094 Geologic Research (A-F or Audit; Prereq: instructor consent)
81014 001 IND, In Person Term Based; 1-6 cr.

3833 FTE: Master's (No Grade Associated; Prereq: Master's student, adviser and DGS consent)
80433 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.

8444 FTE: Doctoral (No Grade Associated; Prereq doctoral student, adviser and DGS consent)
80442 001 IND, 00:00-00:00 , Independent/Directed Study; 1 cr.

8666 Doctoral Pre-Thesis Credits (No Grade Associated; Prereq: Max 6 cr per semester or summer; doctoral student who has not passed PhD oral; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to an additional 12 cr, or 24 cr total for doctoral students admitted summer 2007 and beyond; doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr))
80444 001 IND, 00:00-00:00 , Independent/Directed Study; 1-16 cr.

8777 Thesis Credit: Master's (No Grade Associated; Prereq: Max 18 cr per semester or summer; 10 cr total required (Plan A only))
80442 001 IND, 00:00-00:00 , Independent/Directed Study; 1-18 cr.

8888 Thesis Credits: Doctoral (No Grade Associated; Prereq: [max 18 cr per semester or summer]; 24 cr required)
80443 001 IND, 00:00-00:00 , Independent/Directed Study; 1-24 cr.

German (GER)

Graduate School (GRAD)

999 Graduate School Active Status (No Grade Associated; Prereq: Grad Students Only)
80479 001 IND, 00:00-00:00 , Independent/Directed Study; 0 cr.

Graduate Summer Research (GRD)

Health (HLTH)

1100 Health and Wellness Strategies for Life (A-F or Audit; SUSTAIN)
80009 001 FWK, Completely Online; Patricia Wendlinger ; 3 cr.
80862 002 LAB, Completely Online; Patricia Wendlinger ; 3 cr.

1104 Health Science Terminology (A-F or Audit; )
80387 001 IND, Completely Online; Karen Skrbich ; 1-3 cr.
81079 002 IND, Completely Online; Karen Skrbich ; 1-3 cr.

1470 Human Nutrition (A-F or Audit; NAT SCI)
80548 001 LEC, Completely Online; Charlene Harkins ; 3 cr.
87982 002 LEC, Completely Online; Charlene Harkins ; 3 cr.

1700 First Responder (A-F or Audit; )
80955 001 LEC, 10:00-10:00 MTWThF, Sports and Health Center 8, In Person Term Based; Elizabeth Fleissner ; 3 cr.

2030 Applied Human Anatomy (A-F or Audit; Prereq: exercise science or physical education or public health and promotion or environmental and outdoor education major or candidate, [Biol 1001 or Biol 1011] and one semester college chemistry; credit will not be granted if already received for Biol 1761)
80388 001 LEC, 8:00-10:40 MTWThF, Hollander Bahn 104, 8:00-10:40 MTWThF, Sports and Health Center 207, In Person Term Based; 4 cr.
80467 002 LAB, 11:00-11:50 MWF, Hollander Bahn 104, 11:00-11:50 MWF, Sports and Health Center 207, In Person Term Based; Mark Nierengarten ; 4 cr.

2040 Human Physiology (A-F or Audit; Prereq: Minimum 30 credits, Biol 1001 or 1011; one semester college chemistry or instructor consent)
80389 001 LEC, 8:00-11:50 MTWTh, Sports and Health Center 207, In Person Term Based; John Keener ; 1 cr.

3101 Community Health (A-F or Audit; Prereq: Minimum 30 credits)
80637 001 LEC, Completely Online; Ladona Tornabene ; 3 cr.

3115 Consumer Health Education (A-F or Audit; Prereq: Minimum 30 credits)
80696 001 LEC, Completely Online; Amy Versnik Nowak ; 3 cr.

3202 Drug Education (A-F or Audit; Prereq: 45 credits, for students seeking and admitted to the STEP [Secondary Teaching Education program], major in health education, public health education, promotion, physical education, exercise science and communication sciences and disorders or instructor consent.)
80390 001 LEC, Completely Online; Amy Versnik Nowak ; 3 cr.

3500 Environmental Health (A-F or Audit; Prereq: Health Education or Public Health Education and Promotion major, minimum 60 credits or instructor consent)
80964 001 LEC, Completely Online; Amy Versnik Nowak ; 3 cr.

4996 Internship in Health Education (S-N or Audit; Prereq: health education major, instructor consent; no grad credit)
80771 001 FWK, Independent/Directed Study; Georgia Keeney ; 1-15 cr.
81122 002 FWK, Independent/Directed Study; Ladona Tornabene ; 1-15 cr.

Health Care Management (HCM)

4560 International Comparisons of Health Care Systems (A-F only; Prereq: LSBIE candidate or approved Health Care Management minor or college consent, no grad credit)
87923 001 LEC, 11:00-13:30 MTWTh, Kirby Plaza 312, In Person Term Based; Kim Dauner ; 3 cr.

4591 Independent Study (A-F only; Prereq: LSBIE candidate, instructor consent, no grad credit)
80582 001 IND, Independent/Directed Study; Kim Dauner ; 1-3 cr.

4597 Internship (A-F only; Prereq: LSBIE candidate or Health Care Management minor, consent of program director or internship director, no grad credit)
80547 001 FWK, Independent/Directed Study; Angie Soderberg ; 3 cr.

3300 Health and Physical Education in the Elementary School (A-F or Audit; Prereq: EldP Major)
80693 001 LEC, 13:00-17:00 MTWThF, Sports and Health Center 150A, 13:00-17:00 MTWThF, Sports and Health Center 8, Partially Online; Jane Carlson, Karen Skrbich ; 3 cr.

History (HIST)

1027 Introduction to Islam (A-F or Audit; HUMANITIES)
80944 001 LEC, Completely Online; Rosemary Stanfield- Johnson ; 3 cr.

1200 World History to 1500: From Antiquity to the Age of Exploration (A-F or Audit; HUMANITIES)
80885 001 LEC, Completely Online; Jeffrey Ropp ; 3 cr.

1305 US History Part II: 1865-Present (A-F or Audit; HUMANITIES)
81009 001 LEC, Completely Online; Scott Lademann ; 3 cr.

3091 Directed Readings in History (A-F or Audit; Prereq: 60 credits, instructor consent)
80985 001 FWK, Independent/Directed Study; Steve Matthews ; 1-3 cr.

3094 Directed Research (A-F or Audit; Prereq: instructor consent, maximum 4 credits may be applied to grad program)
81005 001 FWK, Independent/Directed Study; Steve Matthews ; 4 cr.

Industrial Engineering (IE)

4196 Cooperative Education (A-F or Audit; Prereq: 4196 or ME 4196; no grad credit)
80337 001 FWK, 00:00-00:00 , , Independent/Directed Study; Puttagounder Dhanasekaran Swaminathan ; 1 cr.

4296 Cooperative Education II (A-F or Audit; Prereq: 4196 or ME 4196; no grad credit)
80900 001 FWK, 00:00-00:00 , , Independent/Directed Study; Puttagounder Dhanasekaran Swaminathan ; 2 cr.

4491 Independent Study (A-F or Audit; Prereq: BSIE or BSME candidate, department consent)
80541 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.
80988 002 IND, 00:00-00:00 , , Independent/Directed Study; Daniel Pope ; 1-4 cr.

5991 Independent Study in Industrial Engineering (Student Option; Prereq: MSEM candidate, department consent)
80542 001 IND, 00:00-00:00 , , Independent/Directed Study; 1-4 cr.

Inter-Institutional Cross-Reg (IICR)

International Studies (INTS)

3191 International Study (A-F or Audit; department consent)
81004 001 FWK, 00:00-00:00 , , In Person Term Based; Mary Caprilli ; 1-5 cr.
81005 002 IND, 00:00-00:00 , , In Person Term Based; Mary Caprilli ; 1-5 cr.

Journalism (JOUR)

2400 Community and Journalism (A-F or Audit; Prereq: Credit will not be granted if already received for 3400.GLOBAL PER)
81065 001 FWK, 00:00-00:00 , , ONLINE, Completely Online; John Hatcher ; 3 cr.

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### University of Minnesota - Class Schedule for Duluth Campus Summer 2016

#### 3991 Independent Study in Journalism
- **AF or Audit; Prereq:** 2001, instructor consent
- 80774 001 IND, Independent/Directed Study; John Hatcher : 1-3 cr.
- 87944 002 IND, Independent/Directed Study; Jennifer Moore : 1-3 cr.

#### 4197 Journalism Internship
- (S-N only; Prereq: 2001, 3700, minimum 60 credits, instructor consent, no grad credit)
- 80682 001 FWK, 00:00-00:00 , Independent/Directed Study; John Hatcher : 1-3 cr.

#### 5197 Journalism Internship
- (S-N only; Prereq: College Grad or grad student, instructor consent)
- 80507 001 FWK, 00:00-00:00 , Independent/Directed Study; John Hatcher : 1-3 cr.

---

### Linguistics (LING)

#### 3951 Independent Study in Linguistics
- (AF or Audit; Prereq: 1811 or instructor consent, department consent)
- 80366 001 IND, 00:00-00:00 , Independent/Directed Study; Chongwon Park : 1-3 cr.
- 87934 002 IND, Independent/Directed Study; William Salomon : 1-3 cr.

#### 4861 International Human Resource Management
- (AF only; Prereq: 3801, LSBE candidate or instructor consent)
- 80890 001 LEC, 11:00-13:30 MTWTh, Bahnhoorn Hall 346, In Person Term Based; Jennifer David : 3 cr.

#### 4979 Entrepreneurial Internship
- (AF or Audit; Prereq: 4472, BLAW 3201, MKGT 7471, LSBE candidate, instructor consent; no grad credit)
- 81025 001 FWK, 00:00-00:00 , Room TBA, Independent/ Directed Study; Angie Soderberg : 3 cr.

---

### Management Studies (MGTS)

#### 1101 The Business Environment
- (AF or Audit; )
- 87834 001 LEC, Completely Online; Lai La Lunde : 3 cr.

#### 3301 Production and Operations Management
- (AF or Audit; Prereq: LSBE candidate or approved non-LSBE business administration minor or college consent; credit will not be granted if already received for FMIS 3301)
- 81025 001 LEC, 08:00-10:30 MTWTh, Montague Hall 203, In Person Term Based; Meets With: 002 MGTS 3301, Jill Klingner : 3 cr.
- 81026 002 LEC, 08:00-10:30 MTWTh, Montague Hall 203, In Person Term Based; Meets With: 001 MGTS 3301, Jill Klingner : 3 cr.

#### 3401 Organizational Behavior and Management
- (AF only; Prereq; LSBE candidate or business administration minor or approved Organizational Management minor or college consent)
- 80381 001 LEC, 14:00-16:30 MTWTh, Ed Endazhi-gikinoo’amading 16, In Person Term Based; Meets With: 002 MGTS 3401, Jennifer Mend ; 3 cr.
- 80437 002 LEC, 14:00-16:30 MTWTh, Ed Endazhi-gikinoo’amading 16, In Person Term Based; Meets With: 001 MGTS 3401, Jennifer Mend ; 3 cr.

#### 3491 Independent Study
- (AF only; Prereq; department consent)
- 80553 001 IND, 00:00-00:00 , Room TBA, Independent/ Directed Study; Jennifer Mend : 1-3 cr.

#### 3497 Organizational Management Internship
- (AF only; Prereq: LSBE candidate, consent of internship director)
- 80564 001 FWK, Independent/Directed Study; Angie Soderberg : 3 cr.

---

### Mathematics (MATH)

#### 1005 College Algebra
- (AF or Audit; Prereq; Math ACT 21 or higher or SSP 0103 or department consent)
- 80478 001 LEC, 08:00-10:00 MTWTh, Engineering Building 204, In Person Term Based; Angela Sharp : 5 cr.

#### 1160 Finite Mathematics and Introduction to Calculus
- (AF or Audit; Prereq; Math ACT 24 or higher or a grade of at least C- in Math 1005 or department consent, or college consent)
- 80459 001 DIS, 9:30-11:30 MTWTh, Ed Endazhi-gikinoo’amading 17, In Person Term Based; Yang Li : 5 cr.

#### 1250 Precalculus Analysis
- (AF or Audit; Prereq; Math Act 27 or higher or a grade of at least C- in Math 1250 or department consent, or college consent)
- 80302 001 DIS, 9:30-11:30 MTWTh, Ed Endazhi-gikinoo’amading 50, In Person Term Based; Guilha Faei : 5 cr.
- 80066 002 DIS, 08:00-10:00 MTWTh, Ed Endazhi-gikinoo’amading 32, In Person Term Based; Tom Sjoberg : 5 cr.

#### 1296 Calculus I
- (AF or Audit; Prereq; Math Act 27 or higher or a grade of at least C- in Math 1250 or department consent, or college consent)
- 80303 001 DIS, 9:30-11:30 MTWTh, Ed Endazhi-gikinoo’amading 50, In Person Term Based; Kate Niederziest : 5 cr.
- 80882 002 DIS, 08:00-10:00 MTWTh, Ed Endazhi-gikinoo’amading 50, In Person Term Based; Xuan Li : 5 cr.

#### 3280 Differential Equations with Linear Algebra
- (AF or Audit; Prereq; A grade of at least C- in 1290 or 1296 or 1596LOGIC & QR)
- 80308 001 DIS, 9:30-11:30 MTWTh, Ed Endazhi- gikinoo’amading 36, In Person Term Based; Carmen Lattarelli : 5 cr.

---

### Master of Liberal Studies (MLS)

#### 6591 Directed Study
- (AF or Audit; Prereq; MLS candidate or department consent)
- 80883 001 IND, 00:00-00:00 , Independent/Directed Study: 1-8 cr.

---

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
# Class Schedule at [http://onestop.umn.edu](http://onestop.umn.edu)

**IMPORTANT:** Before you attend the first class, verify the room location in the online Class Schedule.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days and Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>80571 001 FWK</td>
<td>FWK, In Person Term Based</td>
<td>5 cr.</td>
<td>MTThF, 12:00-13:50</td>
<td>Alworth Hall 337</td>
</tr>
<tr>
<td>7411 Community Pharmacy Practice Experience</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80594 001 FWK</td>
<td>FWK, In Person Term Based</td>
<td>4 cr.</td>
<td>MTThF, 12:00-13:50</td>
<td>Alworth Hall 347</td>
</tr>
<tr>
<td>7412 Elective Practice Experience I</td>
<td>In Person</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80528 001 IND</td>
<td>IND, Independent/Directed Study</td>
<td>1-5 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80766 001 LAB</td>
<td>LAB, In Person</td>
<td>5 cr.</td>
<td>TTh, 12:00-13:50</td>
<td>Alworth Hall 277</td>
</tr>
<tr>
<td>7431 Patient Care Practice Experience Elective I</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80517 003 FWK</td>
<td>FWK, In Person Term Based</td>
<td>1 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7432 Patient Care Practice Experience Elective 2</td>
<td>(S-N only; Prereq: Pharm.D. III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, proof of negative Mantoux test [or explanation of positive test], proof of chicken pox immunity)</td>
<td>5 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80905 050 LEC</td>
<td>LEC, Completely Online; Scott Carlson</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7433 Patient Care Practice Experience Elective 3</td>
<td>(S-N only; Prereq: Pharm.D. III, MN Board of Pharmacy intern, criminal background check, BLS CPR certification, proof of negative Mantoux test [or explanation of positive test], proof of chicken pox immunity)</td>
<td>5 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Philosophy (PHIL)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days and Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Introduction to Philosophy</td>
<td>(A-F or Audit; HUMANITIES)</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80947 001 LEC</td>
<td>LEC, Online; Completely Online; Michelle Saint</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1008 Critical Thinking</td>
<td>(A-F or Audit; LOGIC &amp; QR)</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80957 001 LEC</td>
<td>LEC, Online; Completely Online; Jason Ford</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Physics (PHYS)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days and Times</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001 Introduction to Physics I</td>
<td>(A-F or Audit; Prereq: Algebra, trigNAT SCI)</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80468 001 LEC</td>
<td>LEC, 8:00-9:50 MTTHF, M W Alworth Hall 195, In Person Term Based; Darrin Johnson</td>
<td>5 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2003 Psychology: Discipline and Profession</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>80499 002 LAB</td>
<td>LAB, 10:00-11:50 TTH, M W Alworth Hall 275, In Person Term Based; Darrin Johnson</td>
<td>5 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013 General Physics I</td>
<td>(A-F or Audit; Prereq: previous or concurrent registration in PHYS 2014, Prerequisite of Math 1290 or 1296 or 1996; credit will not be granted if already received for PHYS 1201 or 2011.NAT SCI)</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80765 001 LEC</td>
<td>LEC, 10:00-11:55 MTTHF, M W Alworth Hall 347, In Person Term Based; Michael Shaw</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80738 001 LEC</td>
<td>LEC, 10:00-11:55 MTTHF, M W Alworth Hall 347, In Person Term Based; Michael Shaw</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014 General Physics Lab I</td>
<td>(A-F or Audit; Prereq: previous or concurrent enrollment in PHYS 2013.NAT SCI)</td>
<td>1 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80766 001 LAB</td>
<td>LAB, 12:00-13:50 TTH, M W Alworth Hall 277, In Person Term Based; Michael Shaw</td>
<td>1 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2015 General Physics II</td>
<td>(A-F or Audit; Prereq: previous or concurrent registration in PHYS 2015, Prerequisite of Math 1290 or 1296 or 1996; credit will not be granted if already received for PHYS 1202, 1204 or 2012.)</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80890 002 DIS</td>
<td>DIS, 12:00-12:55 W, M W Alworth Hall 397, In Person Term Based; Jeremy Youde</td>
<td>4 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2016 General Physics Lab II</td>
<td>(A-F or Audit; Prereq: Previous or concurrently enrolled PHYS 2015 or 2018.)</td>
<td>1 cr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>80811 001 LEC</td>
<td>LEC, 14:00-15:50 TTH, M W Alworth Hall 249, In Person Term Based; Bill Wolz</td>
<td>1 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at [http://onestop.umn.edu](http://onestop.umn.edu). IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
3081 History and Systems of Psychology (A-F or Audit; Prereq: 1003 or instructor consent) 80051 000 LEC, Completely Online; Carol Kvit ; 3 cr.

3111 Theories of Personality (A-F or Audit; Prereq: 1003 or instructor consent) 80040 050 LEC, Completely Online; Alexandra Luong ; 3 cr.

3121 Abnormal Psychology (A-F or Audit; Prereq: 1003 or instructor consent) 80738 050 LEC, Completely Online; Rick LaCaille ; 4 cr. 80969 050 LEC, Completely Online; Rick LaCaille ; 4 cr.

3201 Social Psychology (A-F or Audit; Prereq: 1003 or instructor consent) 80742 050 LEC, Completely Online; Laura LaCaille ; 3 cr. 80991 051 LEC, Completely Online; Laura LaCaille ; 3 cr.

3215 Topics in Human Sexuality (A-F or Audit; Prereq: 1003 or instructor consent) 80059 050 LEC, Completely Online; Christine Schilling ; 3 cr.

3231 Psychology of Drug Use (A-F or Audit; Prereq: 1003 or instructor consent) 80820 050 LEC, Completely Online; Robert Lloyd ; 3 cr.

3371 Child and Adolescent Psychology (A-F or Audit; Prereq: 1003) 80741 050 LEC, Completely Online; Carol Kvit ; 3 cr.

3381 Adult Development and Aging (A-F or Audit; Prereq: 1003) 87828 050 LEC, Completely Online; Karen Marsh ; 3 cr.

3524 Basic Helping Skills (A-F or Audit; ) 80906 050 LEC, Completely Online; Christine Schilling ; 4 cr.

3611 Learning and Behavior (A-F or Audit; Prereq: 1003 or instructor consent) 80995 050 LEC, Completely Online; Julie Slowiak ; 4 cr. 87846 051 LEC, Completely Online; Julie Slowiak ; 4 cr.

3621 Cognition (A-F or Audit; Prereq: 1003 or instructor consent) 80819 050 LEC, Completely Online; Keith Young ; 4 cr.

3697 Sensation and Perception (A-F or Audit; ) 80994 050 LEC, Completely Online; Eric Hessler ; 4 cr.

3701 Personnel Psychology (A-F or Audit; Prereq: 1003) 87830 050 LEC, Completely Online; Christopher Lake ; 3 cr.

Safety (SAFE)

6291 Independent Study in Industrial Safety (S-N or Audit; Prereq: 6002, instructor consent) 80574 001 IND, 00:00-00:00 , , Independent/Directed Study; Robert Feyen ; 1-3 cr.

6997 Internship in Environmental Health and Safety (S-N or Audit; Prereq: MEHS student, department approval) 80646 010 FWK, 00:00-00:00 , , Independent/Directed Study; Robert Feyen ; 3 cr.

Social Work (SW)

1000 Introduction to Social Welfare (A-F or Audit; SOC SCI) 81007 030 LEC, 9:30-12:00 MWF, Bohannon Hall 112, Partially Online; Jim Amell ; 3 cr.

1210 Global Issues (A-F or Audit; SOC SCI,GLOBAL PER) 87867 050 LEC, Completely Online; Sandra van den Bosse ; 3 cr. 87868 051 LEC, Completely Online; Sandra van den Bosse, Pscilla Day ; 3 cr.

1619 Race, Class, and Gender in the United States

4597 Internship (S-N only; Prereq: Internship coordinator consent, sociology or criminology major, 4587, WRIT 31xx; no graduate credit) 80046 01 FWK, Independent/Directed Study; Robert Weidner ; 6-8 cr.

5491 Independent Study in Sociology (A-F or Audit; Prereq; instructor consent; maximum 6 credits allowed between SOC 4991 and CRIM 4391) 80411 001 IND, 00:00-00:00 , , Independent/Directed Study; Robert Weidner ; 1-6 cr. 80456 001 IND, 00:00-00:00 , , Independent/Directed Study; Robert Weidner ; 1-6 cr. 81123 001 IND, 00:00-00:00 , , Independent/Directed Study; Janelle Wilson, Cindy Gustafson ; 1-6 cr.

4999 Honors Project Sociology (A-F or Audit; Prereq; 90 cr, approval by dept honors program director; no grad credit; maximum 8 credits allowed between SOC 4991 and CRIM 4391) 80423 001 IND, 00:00-00:00 , , Independent/Directed Study; John Hamlin, Janelle Wilson ; 1-4 cr. 80470 001 IND, 00:00-00:00 , , Independent/Directed Study; Robert Weidner ; 1-4 cr.

Spanish (SPAN)

Special Education (SPED)

3103 Infants and Toddlers with Special Needs (A-F or Audit; Prereq; Minimum 30 credits) 81052 030 LEC, Completely Online; Jennifer Bouchie ; 4 cr.

3109 Supporting Social/Emotional Development Birth-8 (A-F or Audit; Prereq; Minimum 30 credits) 81051 001 LEC, Completely Online; Mary Ann Marchel ; 3 cr.

4250 Foundations of Autism Spectrum Disorders (A-F or Audit; Prereq; 1003) 80866 001 LEC, 00:00-00:00 , , Completely Online; Meets With: 001 SPED 5250 ; 4 cr.

4433 Foundations in Special Education (A-F or Audit; Prereq; Min 45 cr, postbac grad or sped minor, no grad credit) 80886 001 LEC, Completely Online; Meets With: 001 SPED 5435, Greg LaNierengarten ; 4 cr.

4435 Parent and Professional Communication and Collaboration (Student Option; Prereq; Postbac grad student) 87997 001 LEC, Completely Online; Meets With: 001 SPED 4395, Adrea Grocke ; 4 cr.

5433 Foundations in Special Education (Student Option; Prereq; Postbac grad student) 80885 001 LEC, Completely Online; Meets With: 001 SPED 4395, Greg LaNierengarten ; 4 cr.

5435 Parent and Professional Communication and Collaboration (Student Option; Prereq; 4433 or 5433, postbac grad or instructor consent) 80886 001 LEC, Completely Online; Meets With: 001 SPED 4435, Adrea Grocke ; 4 cr.

Statistics (STAT)

3411 Engineering Statistics (A-F or Audit; Prereq; MATH 1297 with a grade of C- or better, cannot be applied to a math or statistics major) 80846 001 LEC, 8:30-10:30 MWTTHF, Ed Endahi- gikino’amadjing 40, In Person Term Based; Mingqian Duan ; 3 cr.

3611 Introduction to Probability and Statistics (A-F or Audit; Prereq; A grade of at least C- in Math 1290 or Math 1296) 81053 003 LEC, 11:00-13:00 MWTTH, Ed Endahigikino’amadjing 40, In Person Term Based; Yongcheng Qi ; 4 cr.

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.
### Theatre (TH)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5991</td>
<td>Independent Study in Theatre (A-F or Audit; Prereq: 1001 or 1801 or instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; MARK HARPAY</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5997 Internship in Professional Theatre (S-N or Audit; Prereq: department approval; 1 cr for each 45 hrs work)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80490</td>
<td></td>
<td>INDEPENDENT/DIRECTED STUDY; MARK HARPAY</td>
<td>1-12 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Toxicology (TXCL)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000</td>
<td>Directed Research in Toxicology (S-N or Audit; Prereq: instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; KENDALL WALLACE</td>
<td>1-4 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Water Resources Science (WRS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>8606</td>
<td>Directed Studies in Water Resources Science (A-F or Audit; Prereq: instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; KENDALL WALLACE</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Writing Studies (WRIT)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1120</td>
<td>College Writing (A-F or Audit; Prereq: Students speaking English as a second language must have TOEFL score of 550; credit will not be granted if already received for COMP 1120WRITING)</td>
<td>ONLINE Complete Online; WHITNEY WALTERS</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3097 Internship in Urban and Regional Studies (S-N only; Prereq: URS major, jr or sr, instructor consent)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80397</td>
<td>Internship in Urban and Regional Studies (A-F or Audit; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; ADAM PINE</td>
<td>1-6 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3991 Independent Study in Urban and Regional Studies (Student Option; Prereq: instructor consent)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80519</td>
<td>Independent Study in Urban and Regional Studies (A-F or Audit; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; ADAM PINE</td>
<td>1-6 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3101 Advanced Writing: Arts and Letters (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for Comp 3110)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80525</td>
<td>Advanced Writing: Arts and Letters (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; LISA HORTON</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3121 Advanced Writing: Business and Organizations (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for Comp 3121)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80529</td>
<td>Advanced Writing: Business and Organizations (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; SUSAN PERALTA-DEWEY</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3130 Advanced Writing: Engineering (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for Comp 3130)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80803</td>
<td>Advanced Writing: Engineering (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; CHRIS GOSDEY</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3140 Advanced Writing: Human Services (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for Comp 3140)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80626</td>
<td>Advanced Writing: Human Services (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; NANCY PETERSON</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3150 Advanced Writing: Science (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for COMP 3150)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80834</td>
<td>Advanced Writing: Science (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; AMY CLARK</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 3160 Advanced Writing: Social Sciences (A-F or Audit; Prereq: WRIT 1120 or MNTC completed and minimum 60 credits; credit will not be granted if already received for COMP 3160)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80835</td>
<td>Advanced Writing: Social Sciences (A-F or Audit; Prereq: Instructor consent)</td>
<td>COMPLETELY Online; WILLIAM SALMON</td>
<td>3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4197 Internship in Writing (S-N only; Prereq: instructor consent, no grad credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80679</td>
<td>Internship in Writing (S-N only; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; JOHN HATCHER</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4591 Independent Study (A-F or Audit; Prereq: Instructor consent, no grad credit)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80861</td>
<td>Independent Study (A-F or Audit; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; DAVID BEARD</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5197 Internship in Writing (S-N only; Prereq: instructor consent, Coll Grad or Grad student)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80629</td>
<td>Internship in Writing (S-N only; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; JOHN HATCHER</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 5591 Independent Study (Student Option; Prereq: College grad or grad student, credit will not be granted if already received for Comp 5991, max 3 cr may be applied to Grad prog, instructor consent)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80630</td>
<td>Independent Study (Student Option; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; DAVID BEARD</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 8994 Directed Research in Writing Studies (A-F or Audit; Prereq: Credit will not be granted if already received for Comp 8994; 8992, instructor consent)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>80631</td>
<td>Directed Research in Writing Studies (A-F or Audit; Prereq: Instructor consent)</td>
<td>INDEPENDENT/DIRECTED STUDY; ELIZABETHADA WIGHT</td>
<td>1-3 cr.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of 03/21/2016 at 11:00 PM and is subject to change. Access the most current information in the online Class Schedule at http://onestop.umn.edu. IMPORTANT: Before you attend the first class, verify the room location in the online Class Schedule.