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 courses that must be taken in sequence are prerequisites, only the last course of the sequence is listed. 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. Likewise, 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
- DRD .................................................. Directed Reading
- DRS ................................................ Directed Research
- DST ................................................ Directed Study
- INI ...................................................... Individualized Instruction
- IND ................................................ Independent Study
- IEX .................................................. Intern/Externship
- LAB ................................................ Laboratory
- LEC ................................................ Lecture
- LET ........ Lecture only (without LAB or DIS sections)
- PHY .................................................. Physical Education
- PRC ................................................ Practicum
- REH ................................................ Rehearsal
- SEM .................................................. Seminar
- STU ................................................ Studio
- THE ................................................ Thesis Credit
- WKS ................................................ Workshop

Liberal Education Program (LEP)—Courses which meet the Liberal Education Program requirements are identified with the following abbreviations in the prerequisites:

- Liberal Education (LE)—Courses emphasizing the 10 categories of liberal education.
- Cultural Diversity (LECD)—Courses emphasizing cultural diversity (CD) in the United States.
- International Perspective (LEIP)—Courses emphasizing an international perspective (IP) in today’s world.

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>31533</td>
<td>001 LEC, 08:00am-09:40am TThS</td>
</tr>
<tr>
<td>11533</td>
<td>002 LEC, 09:00am-10:05am MWF</td>
</tr>
<tr>
<td>12533</td>
<td>003 LEC, 12:00pm-01:40pm TThS</td>
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Example 2

<table>
<thead>
<tr>
<th>Class</th>
<th>Time</th>
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<tbody>
<tr>
<td>001 LEC, 10:15am-11:20am MWF</td>
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<tr>
<td>81533</td>
<td>002 LAB, 12:00pm-01:40pm M</td>
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<tr>
<td>61533</td>
<td>003 LAB, 12:00pm-01:40pm W</td>
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Example 3

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<th>Class</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>001 LEC, 08:00am-09:40am T</td>
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<tr>
<td>41533</td>
<td>002 LAB, 10:00am-11:40am T</td>
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<tr>
<td>21533</td>
<td>003 LAB, 10:00am-11:40am Th</td>
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<tr>
<td>004 LEC, 11:00am-12:40am Th</td>
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<tr>
<td>11533</td>
<td>005 LAB, 02:00pm-03:40pm T</td>
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<tr>
<td>64574</td>
<td>006 LAB, 02:00pm-03:40pm Th</td>
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<tr>
<td>81600</td>
<td>007 LET, 09:00am-09:50am MWF (stand-alone lecture without lab for courses which usually have a lab)</td>
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</tbody>
</table>

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—Web course listings (at onestop.umn.edu/schedule/html.dul.html) always contain the most current and accurate information.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Schedule</th>
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</thead>
<tbody>
<tr>
<td>3100</td>
<td>Accounting Information Systems (A-F; prereq LSBE cand or non-LSBE acct minor or college consent)</td>
<td>Reichert, Charles J</td>
<td>3 cr</td>
<td>08:00-09:50 AM MWF, SBE 32</td>
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<tr>
<td>49923</td>
<td>AFROTC GMC Leadership Laboratory (S-N only)</td>
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<tr>
<td>49999</td>
<td>001 LAB, 06:15am-07:45am W, DADB 16A; Meets meet LE req of LE CAT03</td>
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<tr>
<td>50016</td>
<td>001 LEC, 12:30pm-01:45pm TTh, SBE 20;</td>
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<tr>
<td>4795</td>
<td>Special Topics (Various Titles to be Assigned)</td>
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<td>3 cr</td>
<td>07:00-09:00 AM T, DADB 16A</td>
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<td>42400</td>
<td>001 LEC, 02:00pm-03:15pm TTh, SBE 20;</td>
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<td>42402</td>
<td>002 LEC, 02:00pm-03:15pm TTh, SBE 20;</td>
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<td>4160</td>
<td>Auditing (A-F; prereq 3102, 3110, LSBE cand or college consent; no Grad School cr)</td>
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<td>42404</td>
<td>001 LEC, 07:00-09:00 AM T, DADB 16A;</td>
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<td>4112</td>
<td>Foundations of the U.S. Air Force (A-F only)</td>
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<tr>
<td>47963</td>
<td>001 PRC; Chromy, Allan J, 1-4 cr</td>
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<tr>
<td>4202</td>
<td>The Evolution of the U.S. Air Force and Space Power (A-F only)</td>
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<td>47961</td>
<td>001 LEC; 08:00am-08:50am F, DADB 16A;</td>
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<td>3000</td>
<td>AFROTC POC Leadership Laboratory (max crs 4-4 repeats allowed; S-N only)</td>
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<td>50001</td>
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<tr>
<td>3001</td>
<td>AFROTC POC Lead Lab (max crs 8-4 repeats allowed; S-N only)</td>
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<td>53381</td>
<td>001 LAB, 06:15am-07:45am W, DADB 16A; Meets meet LE req of LE CAT03</td>
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<td>47693</td>
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<td>5391</td>
<td>Leadership Practicum (max crs 4-4 repeats allowed; A-F only)</td>
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<td>47683</td>
<td>001 PRC; Chromy, Allan J, 1-4 cr</td>
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<tr>
<td>4102</td>
<td>National Security Affairs, Preparation for Active Duty (A-F; prereq Grad School cr)</td>
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<td>47695</td>
<td>001 LEC, 06:00pm-09:00 W, SPC#208;</td>
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<tr>
<td>AMERICAN INDIAN STUDIES (Amin)</td>
<td>College of Liberal Arts</td>
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<tr>
<td>1103</td>
<td>Beginning Ojibwe I (A-F; meets LEC req of LEC CAT03)</td>
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<td>89467</td>
<td>001 LEC, 06:00pm-08:30pm W, Cina 102;</td>
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<td>1104</td>
<td>Beginning Ojibwe II (A-F; prereq 1103 or instr consent; meets LEC req of LEC CAT03)</td>
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<td>1120</td>
<td>American Indians in the 20th Century (A-F; meets LEC req of LEC CAT07)</td>
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<td>51261</td>
<td>001 LEC, 06:00pm-08:30pm Th, ABAH 245;</td>
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<td>2105</td>
<td>Survey of American Indian Arts (A-F; meets LE req of LE CAT9)</td>
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<td>001 LEC, 03:00pm-04:45pm TTh, VCH 221;</td>
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<td>1115</td>
<td>Ojibwe History and Culture (A-F)</td>
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<td>48519</td>
<td>001 IND; Red Horse, John G, 1-5 cr</td>
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<td>3106</td>
<td>Indian-White Relations (A-F; prereq 1102 or instr consent; meets LEC req of LEC CAT08)</td>
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<td>50077</td>
<td>001 LEC, 02:00pm-03:15pm Th, Room TBA, DULUTH;</td>
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<td>3300</td>
<td>Projects in American Indian Studies (max crs 10; repeats allowed; A-F; prereq 1120, instr consent)</td>
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<tr>
<td>48519</td>
<td>001 IND; Red Horse, John G, 1-5 cr</td>
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<tr>
<td>51261</td>
<td>001 LEC, 06:00pm-08:30pm Th, ABAH 245;</td>
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<tr>
<td>1120</td>
<td>American Indians in the 20th Century (A-F; meets LEC req of LEC CAT07)</td>
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<td>1120</td>
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<tr>
<td>1120</td>
<td>American Indians in the 20th Century (A-F; meets LEC req of LEC CAT07)</td>
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</tr>
</tbody>
</table>
ART (Art)
School of Fine Arts

901 Graphic Design Portfolio Review
(S-N only; prereq {repeatable one time}, 9 cr in art courses, pre-graphic design major or department consent)
50007 001 DIS, Bardolph, Steve, 0 cr
53409 300 DIS, ROCHASTER, Edel, Miranda Elizabeth, 0 cr

902 Studio Art Portfolio Review
(S-N; prereq {repeatable one time}, 9 cr in art courses, pre-studio art major or dept consent)
91677 001 STU, 0 cr

903 Art Education Portfolio Review
(S-N only; prereq {repeatable one time}, 9 cr in art courses, pre-art ed major or dept consent)
50781 001 DIS, Colman, Marrian, 0 cr

1001 Art Today
(A-F only; meets LEQ req of LEIP CAT09)
51141 001 LEC, 09:00am-09:50am MWF, BAHH90; (Open CE reserved seats will be available to UMD students on January 9, 2007); 3 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Jones, Jennifer Elaine, 3 cr

1002 Introduction to Art
(A-F only; prereq Pre-elementary/middle school educ or [BA theatre or music], or BFA theatre or Bmus music education; Credit will not be granted if credit has been received for: 1005; meets LEQ req of LE CAT10)
48071 002 LEC, 04:00pm-05:50pm MW, BAHH135; (Open CE reserved seats will be available to UMD students on January 9, 2007); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Wittig, Rob, 3 cr

1006 Freshman Seminar: Fundamentals of Drawing
(A-F only; prereq Freshman, fewer than 30 cr; Credit will not be granted if credit has been received for: 1009; meets LEQ req of LE CAT10)
50581 001 SEM, 02:00pm-03:50pm MW, BAHH125; Dietrich, Jennifer Lee, 3 cr

1009 Fundamentals of Drawing
(A-F only; prereq Not for art majors or minors; Credit will not be granted if credit has been received for: 1006; meets LEQ req of LE CAT10)
51273 090 LEC, 06:00pm-09:50pm T, BAHH125; (Open CE reserved seats will be available to UMD students on January 9, 2007); 2 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 50039 ART 1010; Ramon, Cecilia F, 3 cr

1010 Drawing I
(A-F only; prereq Art or art ed major or art minor or architecture and design minor or instr consent)
50573 001 LEC, 10:00am-11:50am TTH, BAHH125; Christine, Jayne, 3 cr
90426 002 LEC, 08:00am-09:50am MW, BAHH125; Dietrich, Jennifer Lee, 3 cr
50009 003 LEC, 09:00am-09:50pm T, BAHH125; (Open CE reserved seats will be available to UMD students on January 9, 2007); 2 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 51273 ART 1010; Ramon, Cecilia F, 3 cr

1020 2-D Design
(A-F only; prereq Art or art ed major or architecture and design studies minor or instr consent; Credit will not be granted if credit has been received for: 1015)
51903 001 LEC, 12:00pm-01:50pm MW, BAHH145; 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Bowen, David W, 3 cr
52007 002 LEC, 10:00am-11:50am MW, BAHH145; Jorde, Holly Anderson, 3 cr
59003 003 LEC, 12:00pm-01:50pm TTH, BAHH145; Jorde, Holly Anderson, 3 cr

1013 2-D Digital Design
(A-F only; prereq Art or art ed major or art or photography minor or architecture and design studies minor or communication arts or arts in media minor or instr consent)
49855 001 LEC, 04:00pm-05:50pm MW, VHKB 131; 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Lehman, Victoria Dahlstrom, 3 cr
50043 002 LEC, 04:00pm-05:50pm TTH, VHKB 131; (Open CE reserved seats will be available to UMD students on January 15, 2008); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Seymour, Rosie A, 3 cr
50543 003 LEC, 02:00pm-03:50pm TTH, VHKB 131; Seymour, Rosie A, 3 cr

1125 Watercolor I
(A-F only; prereq 1002 or 1010 or instr consent, Credit will not be granted if credit has been received for: 3125)
49335 090 LEC, 06:00pm-09:50pm T, BAHH135; (Open CE reserved seats will be available to UMD students on January 15, 2008); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 52661 ART 1125; Colman, Marian, 3 cr

1126 Watercolor II
(A-F only; prereq 1125 or instr consent, Credit will not be granted if credit has been received for: 3125)
49004 090 LEC, 06:00pm-09:50pm T, BAHH135; (Open CE reserved seats will be available to UMD students on January 9, 2007); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 52661 ART 1125; Colman, Marian, 3 cr

1405 Fundamentals of Ceramics I
(A-F only; prereq Not for art majors or minors; Credit will not be granted if credit has been received for: 2900; meets LEQ req of LE CAT10)
49141 090 LEC, 06:00pm-09:50pm W, BAHH155; (Open CE reserved seats will be available to UMD students on January 15, 2008); 3 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 49143 ART 3405; Kliueg, James, 3 cr

1814 Creating Across Cultures
(A-F only; prereq Credit will not be granted if credit has been received for: 2814; meets LECQ req of LECQ CAT09)
50413 001 LEC, 06:00pm-08:30pm T, BAHH135; (Open CE reserved seats will be available to UMD students on January 9, 2007); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Ramon, Cecilia F, 3 cr

1900 Visual Literacy
(A-F only; prereq Credit will not be granted if credit has been received for: 2900; meets LEQ req of LECQ CAT09)
51173 001 LEC, 09:30am-10:45am TTH, H314; Kliueg, James, 3 cr

2016 2-D Digital Studio I
(max crs 6; A-F only; prereq: 1013, art or art ed major, pre-art educ major or pre-graphic design major, or art or photography minor or instr consent, Credit will not be granted if credit has been received for: 3016)
47723 001 LEC, 12:00pm-01:50pm MW, VHKB 131; Meets with: 47735 ART 3717; Rock, Joellyn Jean, 3 cr
49333 002 LEC, 10:00am-11:50am MW, VHKB 131; Meets with: 49341 ART 3717; Rock, Joellyn Jean, 3 cr
50575 003 LEC, 12:00pm-01:50pm TTH, VHKB 131; Meets with: 50581 ART 3717; Rock, Joellyn Jean, 3 cr
2100 Painting I
(A-F only; prereq 1006 or 1009 or 1010, 1011, art or art ed major or art minor or instr consent. Credit will not be granted if credit has been received for: 1100)

49337 001 LEC, 02:00pm-03:50pm MW, H 332; Meets with: 49035 ART 4700; Repinski, Robert A, 3 cr

49141 090 LEC, 06:00pm-09:50pm W, ABAH 155; Meets with: 49143 ART 4700; Klueg, James, 3 cr

49143 090 LEC, 06:00pm-09:50pm W, ABAH155; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Klueg, James, 3 cr

49143 090 LEC, 06:00pm-09:50pm W, ABAH155; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Meets with: 49141 ART 4700; Klueg, James, 3 cr

3245 Ceramics II Wheel Throwing
(A-F only; prereq 2400, art or art ed major or art minor or instr consent)

5033 001 LEC, 02:00pm-03:50pm MW, ABAH 155; Jorde, Holly Anderson, 3 cr

3600 Photography II: Alternative Processes and Film
(max crs 6; A-F only; prereq 1013, 2600 or 1607 and art or art ed major or art or photography minor or instr consent)

48083 001 LEC, 10:00am-11:50am MW, Cina 16; Dugan, Jeffrey William, 3 cr

3700 Drawing II
(max crs 6; A-F only; prereq 1010, art or art ed major, pre-art ed major or pre-graphic design major, or art minor or instr consent)

47797 001 LEC, 02:00pm-03:50pm TH, ABAH 155; Meets with: 49035 ART 4700; Repinski, Robert A, 3 cr

51965 002 LEC, 12:00pm-01:50pm MW, ABAH 155; Meets with: 51967 ART 4700; Nakajima, R, 3 cr

3715 Figure Drawing
(A-F; prereq 3700, art or art ed or graphic design major or art minor or instr consent)

89523 001 LAB, 04:00pm-05:50pm MW, ABAH 155; Meets with: 49035 ART 4700; Repinski, Robert A, 3 cr

3809 Art in Elementary Education Methods
(Meets with: 49337 ART 4700; Repinski, Robert A, 3 cr)

53349 001 LEC, 12:00pm-01:55pm TH, H 331; Aune, Alison Judith, 3 cr

3810 Art in Elementary Education
(A-F only; prereq 1005, pre-element middle school ed major only.)

47755 001 LEC, 10:00am-11:25am MW, H 331; Aune, Alison Judith, 3 cr

3815 Art in Secondary Education
(A-F only; prereq 3811, art majors only or instr consent)

51223 001 LEC, 12:00pm-01:50pm MW, H 331; Colman, Marian, 3 cr

3907 Typography II
(A-F only; prereq 2907, graphic design major or instr consent)

89386 001 LAB, 12:00pm-01:50pm MW, SBE 17; Gordon, Jennifer Ann, 3 cr

89387 002 LAB, 08:00am-09:50am MW, VKH 131; Koch, Beth E, 3 cr

89388 003 LAB, 10:00am-11:50am TH, SBE 17; Gordon, Jennifer Ann, 3 cr

3933 Graphic Design III
(A-F only; prereq 3922, graphic design major or instr consent)

47973 001 LEC, 08:00am-09:50am T, SBE 17, 08:00am-09:50am Th, ABAH135; Gordon, Jennifer Ann, 3 cr

50309 002 LEC, 04:00pm-05:50pm T, SBE 17, 04:00pm-05:50pm Th, ABAH135; Gordon, Jennifer Ann, 3 cr

90912 003 LEC, 10:00am-11:50am T, ABAH 335, 10:00am-11:50am Th, MonH 239; Wittig, Rob, 3 cr

4040 Introduction to Digital Filmmaking
(A-F; prereq 2030, art or art ed major, pre-art educ major or pre-graphic design major, or art minor or instr consent)

89408 001 LAB, 02:00pm-03:50pm MW, SBE 17; Nakajima, Sarah Chokyi, 3 cr

4100 Painting III
(max crs 9; 9 repeats allowed; A-F only; prereq 3100, art or art ed major or art minor or instr consent; no Grad School cr)

47789 001 LEC, 10:00am-11:50am TH, H 331; Meets with: 47787 ART 3100; Nakajima, R, 3 cr

4191 Individual Study in Painting
(max crs 9; 9 repeats allowed; A-F only; prereq: Two sem painting, instr consent; no Grad School cr)

49791 001 IND; Nakajima, R, 1-3 cr

4291 Individual Study in Sculpture
(max crs 9; 9 repeats allowed; A-F only; prereq: 2 sem sculpture, instr consent; no Grad School cr)

48103 001 IND; Repinski, Robert A, 1-3 cr

4400 Ceramics III
(max crs 6; A-F only; prereq 3400, art or art ed major or art minor or instr consent; no Grad School cr)

47775 001 LEC, 02:00pm-03:50pm TH, ABAH 155; Meets with: 47773 ART 3400; Klueg, James, 3 cr

4491 Individual Study in Ceramics
(max crs 9; 9 repeats allowed; A-F only; prereq 2 sem ceramics, dept consent)

48105 001 IND; Klueg, James, 1-3 cr

4600 Photography III: Digital Portfolio
(max crs 9; 3 repeats allowed; A-F only; prereq 2900, 3600 or 3625, art or art ed major or art or photography minor or instr consent)

48085 001 LEC, 02:00pm-03:50pm MW, Cina 16; Brush, Gloria DeFilipps, 3 cr

91311 460 LEC; Edel, Miranda Elizabeth, 3 cr

4650 Photography IV: Alternative Processes Portfolio
(max crs 6; A-F; prereq 1900, 3600 or 3625, 4600, art or art ed major or art or photography minor or instr consent)

49033 001 STU, 02:00pm-03:50pm TH, Cina 16; Dugan, Jeffrey William, 3 cr

4675 Photography V: The Photographic Book
(max crs 6; 3 repeats allowed; A-F; prereq 1900, [3600 or 3625], [4600 or 4650], art or art ed major or art or photography minor or instr consent)

90602 001 STU, 12:00pm-01:50pm MW, Cina 16; Brush, Gloria DeFilipps, 3 cr
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<td>89432</td>
<td>02 DIS</td>
<td>03:00pm-03:50pm T, SSB 115</td>
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<td>89434</td>
<td>02 DIS</td>
<td>06:00pm-06:50pm T, SSB 115</td>
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<td>89436</td>
<td>02 DIS</td>
<td>10:00am-10:50am M, SSB 115</td>
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<td>89438</td>
<td>02 DIS</td>
<td>10:00am-12:15pm F, SSB 113, 5 cr</td>
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1012 General Biology II

(A-F only; prereq 1011)

001 LEC, 11:00am-11:50am MWF, Chem 200;
Little, Amanda M; Shannon, Lyle John
002 DIS, 10:00am-10:50am T, SSB 115
004 DIS, 01:00pm-01:50pm T, SSB 115
005 LAB, 12:00pm-02:15pm T, SSB 115
006 DIS, 05:00pm-05:50pm M, SSB 115
007 LAB, 02:30pm-04:45pm T, SSB 115
008 DIS, 05:00pm-05:50pm W, SSB 115
009 LAB, 06:00pm-08:15pm T, SSB 109, 5 cr
010 DIS, 09:00am-09:50am F, SSB 115
011 LAB, 08:30am-10:45am W, SSB 109, 5 cr
012 DIS, 01:00pm-01:50pm MWF, SSB 115
013 LAB, 12:30pm-02:45pm W, SSB 109, 5 cr
014 DIS, 05:00pm-05:50pm M, SSB 115
015 LAB, 03:30pm-05:45pm MWF, SSB 109, 5 cr
016 DIS, 04:00pm-04:50pm M, SSB 115
017 LAB, 06:00pm-08:15pm W, SSB 109, 5 cr
018 DIS, 09:00am-11:00am F, SSB 115
019 LAB, 08:30am-10:45am F, SSB 109, 5 cr

1086 Freshman Seminar: Food Preservation, Sanitation and Handling

A-F only; prereq greater than 60 credits (meets LE req of CAT5)

35383 001 SEM, 08:00am-08:50am MWF, SSB 115; Karim, M Raj, 3 cr

1761 Human Anatomy

(A-F only; prereq 1 or high school Biol or 1011)

Shannon, Lyle John

002 LAB, 01:00pm-02:30pm T, SSB 326, 4 cr
003 LAB, 03:00pm-04:30pm T, SSB 326, 4 cr
004 LAB, 09:00am-10:30am WF, SSB 326, 4 cr
005 LAB, 11:00am-12:00pm WF, SSB 326, 4 cr

2101 Cell Biology

(A-F only; prereq 1012, chem 1152 or 1162)

48223 001 LEC, 02:00pm-02:50pm MWF, Chem 200;
Stevenson, Shannon L, 3 cr

2102 Cell Biology Laboratory

(A-F only; prereq Concurrent registration is required (or allowed) in 2101)

51015 001 LAB, 09:00am-12:50pm T, SSB 103;
Shannon, Lyle John
002 LAB, 01:00pm-02:30pm T, SSB 326, 4 cr
003 LAB, 03:00pm-04:30pm T, SSB 326, 4 cr
004 LAB, 09:00am-10:30am WF, SSB 326, 4 cr
005 LAB, 11:00am-12:00pm WF, SSB 326, 4 cr

2201 Genetics

(A-F only; prereq 1012)

51947 001 LEC, 09:00am-09:50am MWF, SLSi 185;
Little, Amanda M, 3 cr

2801 General Ecology

(A-F only; prereq 1012 or inst consent)

49909 001 LEC, 02:00pm-03:15pm TTh, SSB 118;
Guldford, Stephanie J, 3 cr

3993 Laboratory Teaching Experience

(max crs 2; S-N only; prereq inst consent, Biol or cell biol major, 90 cr incl 25 cr Biol; max 2 cr may be applied toward Biol major)

48221 001 LAB, 1-2 cr

3994 Undergraduate Research

(max crs 6; repeats allowed: S-Nonly; prereq 1012, 60 cr or inst consent; max 4 cr may be applied to Biol or cell biol major or Biol minor as upper div elective)

48237 001 DR5, 1-3 cr

3996 Internship in Biology

(max crs 2; S-Nonly; prereq 1012, inst consent; max 1 cr may be applied to Biol or cell biol major)

48235 001 IE5, 1-2 cr

3997 Seminar I

(S-N only; prereq 60 cr or inst consent)

48225 001 SEM, 09:00am-09:50am MWF, SLSi 185;
Mensing, Allen, 0.50 cr
48229 002 SEM, 02:00pm-02:50pm MWF, SSB 115;
Hrabik, Thomas R, 0.50 cr
48231 003 SEM, 02:00pm-02:50pm TTh, SSB 115;
Branstrator, Donn K, 0.50 cr
48233 004 SEM, 04:00pm-04:50pm TTh, SSB 115;
Karim, M Raj, 0.50 cr
48235 001 IE5, 1-2 cr

4231 Molecular Biology

(A-F: prereq 2011, 2201 or inst consent, or Biol or IBS Grad School student, Credit will not be granted if credit has been received for: 5231)

48229 001 LEC, 09:00am-09:50am MWF, SLSi 175;
Kroft, Tim L, 3 cr

4501 General Microbiology

(A-F only; prereq 2011 or inst consent, or Biol or IBS Grad School student; Biol or IBS Grad School student)

53491 001 LEC, 09:30am-10:45am TTh, Chem 251;
Lee, Tail 0, 3 cr

4731 Entomology

(A-F only; prereq 1012 or inst consent, or Biol or IBS Grad School student)

49992 001 LAB, 01:00pm-01:50pm MWF, SSB 326;
Nieini, Gerald John
49992 002 LAB, 02:00pm-03:50pm M, LSci 340;
Craig, Timothy Paul, 3 cr
49993 003 LAB, 02:00pm-04:50pm M, LSci 340;
Drulis-Kawa, Zuzanna; Augustyniak, Daria
4 cr

4603 Plant Physiology

(A-F only; Biol or IBS Grad School student, Credit will not be granted if credit has been received for: 5231)

53491 001 LEC, 09:30am-10:45am TTh, Chem 251;
Lee, Tail 0, 3 cr

4761 Ichthyology

(A-F only; prereq 2801 or inst consent, or Biol or IBS Grad School student)

57023 001 LEC, 09:00am-09:50am MWF, SLSi 185;
Pastor, John Joseph, 2 cr

4763 Ornithology

(A-F only; prereq 2801 or inst consent, or Biol or IBS Grad School student)

57023 001 LEC, 09:00am-09:50am MWF, SLSi 185;
Karim, M Raj, 0.50 cr

This information is accurate as of: 11/02/2007

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Optional:

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<td>49921 011 DIS</td>
<td>03:00pm-04:50pm T, SSB 115; Stevenson, Shannon L, 3 cr</td>
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Note: The table above provides a structured representation of the course offerings and their details from the University of Minnesota - Class Schedule for Duluth Campus Spring 2008.
### CHEMICAL ENGINEERING (Chem)

**Colleges of Science & Engineering**

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<th>Course Title</th>
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<tbody>
<tr>
<td>4613</td>
<td>Air Pollution Control</td>
<td>4</td>
<td>A-F; prereq 2111, Math 3280, min 60 cr</td>
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<tr>
<td>52899</td>
<td>001 LEC, 01:00 pm-01:50 pm</td>
<td>4</td>
<td>MWF, Engr 280; Hoberg, Steven P, 3 cr</td>
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<tr>
<td>5895</td>
<td>Special Topics (Various Titles to be Assigned)</td>
<td>(max crs 10; 10 repeats allowed: prereq instr consent, no Grad School cr)</td>
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<tr>
<td>91514</td>
<td>001 LEC, 09:00 am-11:50 am</td>
<td>4</td>
<td>TTh, BohH 346; Brekke, John Harvey, 1-4 cr; T: Biomimetic Formulations</td>
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### CHEMISTRY (Chem)

**College of Science & Engineering**

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<tr>
<td>1102</td>
<td>Aspects of Chemistry</td>
<td>4</td>
<td>Credit will not be granted if credit has been received: CHEM 1113, CHEM 1151, CHEM 1161, CHEM 2172; max crs 4; A-F; prereq: meets LE req of LE CAT4; meets LE req of LE CAT5</td>
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<tr>
<td>48349</td>
<td>002 LAB, 11:00 am-12:50 pm</td>
<td>4</td>
<td>M, Chem 316, 4 cr</td>
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<tr>
<td>48351</td>
<td>003 LAB, 03:00 pm-05:50 pm</td>
<td>4</td>
<td>M, Chem 316; (Open CE reserved seats will be available to UMD students on January 9, 2007.); 1 seat reserved for Cor Continuing Education - EXPIRES 15-JAN-2008, 4 cr</td>
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<tr>
<td>48353</td>
<td>004 LAB, 02:00 pm-03:50 pm</td>
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<td>Th, Chem 316, 4 cr</td>
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<td>49593</td>
<td>010 LEC, 08:00 am-09:15 am</td>
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<td>Th, Chem 150; meets with: 49583 CHEM 1102; Hinterditter, Anne, 3 cr</td>
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<tr>
<td>1114</td>
<td>Introduction to General, Organic, and Biological Chemistry II</td>
<td>(A-F; prereq 1113; Credit will not be granted if credit has been received: 2521 or 3322)</td>
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<td>MTWThF, Chem 150; Meredith, Sangeeta</td>
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<tr>
<td>48402</td>
<td>001 LAB, 11:00 am-12:50 pm</td>
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<td>M, SSBC 226, 5 cr</td>
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<tr>
<td>48403</td>
<td>003 LAB, 09:00 am-10:50 am</td>
<td>4</td>
<td>Th, SSBC 226, 5 cr</td>
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<td>1151</td>
<td>General Chemistry I</td>
<td>(Credit will not be granted if credit has been received: CHEM 1113, CHEM 1151, CHEM 1161, CHEM 2172; A-F; prereq: high school chem; high school algebra; meets LE req of LE CAT4)</td>
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<td>49580</td>
<td>001 LEC, 10:00 am-11:00 am</td>
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<td>MTWThF, LSci 175; Tsai, Bilin Paulu</td>
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<td>003 LAB, 10:00 am-12:50 pm</td>
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<td>M, SSBC 143, 5 cr</td>
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<td>48058</td>
<td>007 LAB, 02:00 pm-04:50 pm</td>
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<td>M, SSBC 143, 5 cr</td>
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<td>48063</td>
<td>009 LAB, 09:00 am-11:50 am</td>
<td>4</td>
<td>T, SSBC 143, 5 cr</td>
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<td>4</td>
<td>T, SSBC 226, 5 cr</td>
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<td>T, SSBC 143, 5 cr</td>
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<td>T, SSBC 226, 5 cr</td>
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<td>50357</td>
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<td>W, SSBC 143, 5 cr</td>
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<td>4</td>
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<td>51611</td>
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<td>Th, SSBC 143, 5 cr</td>
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### BUSINESS LAW (BLaw)

**Labovitz School of Business & Economics**

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<td>2001</td>
<td>The Legal Environment</td>
<td>(A-F; prereq Min 30 cr.; meets LE req of LE CAT8)</td>
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<td>51917</td>
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<td>MWF, MonH 203, 3 cr</td>
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<td>51919</td>
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<td>TTh, MonH 203; (Open CE reserved seats will be available to UMD students on January 9, 2007.); 1 seat reserved for Continuing Education - EXPIRES 15-JAN-2008; Jennings, Mark C, 3 cr</td>
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<td>50027</td>
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<td>TTh, BohH 90; (Open CE reserved seats will be available to UMD students on January 9, 2007.); 1 seat reserved for Continuing Education - EXPIRES 15-JAN-2008; Halvorson, Juhl, 3 cr</td>
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<td>3001</td>
<td>Law and Ethics for Financial Professionals</td>
<td>(A-F; prereq LSBE cand or dept consent)</td>
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<td>50777</td>
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<td>T, SBE 32; Rolane, Alan C, 3 cr</td>
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This information is accurate as of: 11/02/2007
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<td>Carlson, Robert M</td>
<td>1 cr</td>
<td>03:00pm-04:50pm T</td>
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This information is accurate as of: 11/02/2007
This information is accurate as of: 11/02/2007
CONTINUING EDUCATION (ChEd)
Continuing Education

2535 Major and Career Exploration (A-F only; prereq: Fewer than 45 credits or instr consent)

91387 090 LEC; 12-14 cr

3535 Strategic Career Planning
(max crs 3; A-F only; prereq: Min 45 cr or instr consent; 2 cr optional if available) Completed 2533 has been completed. (max cr 2 or completed 2533), 3 cr is required if cr has not been received for 2533)

91182 002 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; Olsen, Nancy Heller, 2-3 cr)

91184 002 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; Arola, Kathy, 2-3 cr)

91185 003 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; Prbyl, Janet Marie, 2-3 cr)

91169 004 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; Weidner, Robert R, 2 cr)

91187 005 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; O'Sullivan, Katherine S, 2-3 cr)

91189 207 INI (Students must access initial course information at www.d.umn.edu/goto/ini. Click on "Getting Started After Registration" to begin. Open CE reserved setas will be available to UMD students on January 15, 2008; 2 seats reserved for Continuing Education - EXPERIES 15-JAN-2008; Olsen, Sonja M., 2 cr)

8220 Advanced Evaluation Research Methods (A-F only; prereq: Grad student or instr consent)

55006 001 LEC; 05:00pm-05:50pm T, Cina 316; Weidner, Robert R, 3 cr)

8295 Special Topics: (Various Titles to be Assigned) (max crs 3; A-F only; prereq Grad student or instr consent)

55007 005 SEM; 05:00pm-07:05pm Th, Cina 214; Gaarder, Emily, 3 cr; T: Gender and Crime

8300 Theories of Crime and Delinquency (A-F only; prereq Grad student or instr consent)

52886 001 LEC; 05:00pm-07:05pm M, Cina 214; Maahs, Jeffrey Robert, 3 cr)

8600 Practicum in Criminology (max crs 15; 3 repeats allowed; S-N only; prereq Grad student or instr consent)

51882 001 PWC, Hamlin, John E, 1-15 cr)

8777 Thesis Credits: Master's (max crs 50; 10 repeats allowed; PGA; prereq Max 18 cr per semester or summer; 10 cr total required) (Plan A only)

91183 002 SEM; 05:00pm-07:05pm M, Cina 214; Dunham, Douglas, 1-24 cr)

91181 003 THE; Turner, Hudson, 1-24 cr)

91178 007 THE; Turner, Hudson, 1-24 cr)

91172 008 THE; Pedersen, Ted, 1-24 cr)

91179 009 THE; Prince, Christopher George, 1-24 cr)

54969 010 THE; Willemsen, Peter J, 1-24 cr)

52179 011 THE; - , 1-24 cr)

8601 Thesis Credits: Master's (max crs 20; 12 repeats allowed; PA; prereq Grad student or instr consent)

55004 001 SEM; 05:00pm-06:50pm Th, Turner, Hudson, 1-24 cr)

55005 002 SEM; 05:00pm-06:50pm Th, Turner, Hudson, 1-24 cr)

55008 004 SEM; 05:00pm-06:50pm Th, Turner, Hudson, 1-24 cr)

55009 005 SEM; 05:00pm-06:50pm Th, Turner, Hudson, 1-24 cr)

55007 005 SEM; 05:00pm-07:05pm Th, Turner, Hudson, 1-24 cr)

55009 002 SEM; 05:00pm-07:05pm Th, Cina 214; Walls, Melissa Lynn, 3 cr; T: Sociology of Mental Health

5997 Teaching Assistant in Cultural Studies (max crs 3; 3 repeats allowed; A-F only; prereq Min 60 cr, instr consent, no Grad School cr)

53529 001 LEC; Edam, Mitra C, 1-3 cr)

DANCE (DN)
School of Fine Arts

1111 Jazz Dance Technique I (max crs 4; 4 repeats allowed; A-F only; meets LE req of LE CAT10)

50681 001 STU, 08:00am-09:45am TTH, MPAC 155; Zimmerman, Christine, 2 cr)

51137 002 STU, 04:00pm-05:45pm TTH, MPAC 155; Zimmerman, Christine, 2 cr)

1131 Ballet Technique I (max crs 12; 6 repeats allowed; A-F only; meets LE req of LE CAT10)

47715 001 STU, 10:00am-11:45am TTH, MPAC 155; White, Lilia Ann Coates, 2 cr)

50185 002 STU, 02:00pm-03:45pm TTH, MPAC 155; White, Lilia Ann Coates, 2 cr)

3201 Modern Dance Technique II (max crs 12; 6 repeats allowed; A-F only; prereq instr consent)

53241 001 STU, 12:00pm-01:10pm MWF, MPAC 155; Katz Harwood, Rebecca, 2 cr)

3211 Jazz Dance Technique II (max crs 16; 8 repeats allowed; A-F only; prereq instr consent)

50175 001 STU, 12:00pm-01:45pm TTH, MPAC 155; Zimmerman, Christine, 2 cr)

3221 Tap Dance Technique II (max crs 8; 4 repeats allowed; A-F only; prereq instr consent)

47721 001 STU, 03:00pm-04:20pm MWF, MPAC 21; Zimmerman, Christine, 2 cr)

3611 Dance History (A-F only; prereq 1001 or instr consent)

54984 001 LEC, 02:00pm-02:50pm MWF, MonH 208; Katz Harwood, Rebecca, 3 cr)

3991 Independent Study in Dance (max crs 6; 6 repeats allowed; A-F only; prereq instr consent; undergrads may not take more than 6 cr in 3991 and 5991 combined)

51219 001 IND; Bergeron, Ann Aiko, 1-3 cr)

4116 Musical Theatre Audition Techniques (A-F only; prereq instr consent , no Grad School cr)

50603 001 STU, 10:00am-11:15am MWF, MPAC 155; Katz Harwood, Rebecca, 3 cr)

4901 Intern Teaching Dance (max crs 6; 3 repeats allowed; A-F only; prereq 3201 or 3211 or 3221 or 3231, instr consent; no Grad School cr)

50513 001 DIS; Bergeron, Ann Aiko, 2 cr)

3991 Independent Study in Dance (max crs 6; 6 repeats allowed; A-F only; prereq instr consent; undergrads may not take more than 6 cr in 3991 and 5991 combined)

51219 001 IND; Katz Harwood, Rebecca, 1-3 cr)

5997 Internship in Professional Dance (max crs 12; 12 repeats allowed; A-F only; prereq dept consent; 1 cr for each 45 hrs of work; no Grad School credit)

47739 001 IEX; Katz Harwood, Rebecca, 1-12 cr)
### EARLY CHILDHOOD STUDIES (ECh)

- **College of Education & Human Service Professions**
  - [4400] Professional Development Seminar (max crs 3; 3 repeats allowed; A-F only; prereq: inst. consent, no Grad School cr)
  - [5133] 006 PRC; 6 cr
  - [53501] 007 PRC; 6 cr
  - [4991] Independent Study (max crs 6; 6 repeats allowed; A-F only; prereq: inst. consent, no Grad School cr)
  - [49087] 001 IND; 1-6 cr

#### ECONOMICS (Econ)

- **Lubovitz School of Business & Economics**
  - [1003] Economics and Society (A-F only; prerequisite: cannot apply to econ major or minor in BAc or BBA majors; meets LE req of LE CAT 97)
  - [49827] 001 LEC, 09:00am-09:50am MWF, MonH 70; 3 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Anderson, Curt L, 3 cr
  - [4991] Independent Study (max crs 6; 6 repeats allowed; A-F only; prereq: inst. consent, no Grad School cr)

### Additional Information

- **Spring 2008**
- [50645] 009 LEC, 12:30pm-01:45pm TTh, SBE 36; (Non-LSBE Bus Adm or Acct minors); Meets with: 50643 ECON 2030, 50641 ECON 2030; Wilmot, Neil, 3 cr
  - [50647] 010 LEC, 02:00pm-03:15pm TTh, SBE 36; (LSBE students); Meets with: 50651 ECON 2030, 50649 ECON 2030; Wilmot, Neil, 3 cr
  - [50649] 011 LEC, 02:00pm-03:15pm TTh, SBE 36; (Econ majors or minors); Meets with: 50651 ECON 2030, 50647 ECON 2030; Wilmot, Neil, 3 cr
  - [50651] 012 LEC, 02:00pm-03:15pm TTh, SBE 36; (Non-LSBE Bus Adm or Acct minors); Meets with: 50647 ECON 2030, 50649 ECON 2030; Wilmot, Neil, 3 cr
- [5323] Microeconomic Analysis (A-F only; prerequisite: 1022, Math 1160 or Math 1206)
  - [51749] 001 LEC, 11:00am-11:50am MWF, SBE 36; O’Brien, A. Maureen, 3 cr
- [3150] Development Economics (A-F only; prerequisite: 1022)
  - [51019] 001 LEC, 12:00pm-12:50pm MWF, SBE 36; Tadesse, Bedassa, 3 cr
- [4391] Economics of Health Care (A-F only; prerequisite: 1022, 1033, 2032, 2033, no Grad School cr)
  - [51437] 001 LEC, 09:30am-10:45am TTh, SBE 36; Schultz, Jennifer, 3 cr
- [4040] Tools: Applications of Economic Analysis (A-F only; prerequisite: 2030 or Stat 5511)
  - [5343] 001 LEC, 10:00am-11:15am MWF, SBE 36; Doorn, David J., 3 cr
- [497] Full-Time Internship (Credit will not be granted if credit has been received for: ECON 4497; max crs 6; S-N; prerequisite: Econ major, 3202, 3203, inst. consent)
  - [49517] 001 IEX; O’Brien, A. Maureen, 3 cr
- [4410] International Economics (A-F only; prerequisite: 1022, 1023, 2032, 2033, no Grad School cr)
  - [54772] 001 LEC, 09:00am-09:50am MWF, SBE 36; Tadesse, Bedassa, 3 cr
- [499] Full-Time Internship (Credit will not be granted if credit has been received for: ECON 4497; max crs 6; S-N; prerequisite: Econ major, 3202, 3203, inst. consent)
  - [49519] 001 IEX; O’Brien, A. Maureen, 6 cr
- [4570] Public Finance (A-F only; prerequisite: 1022)
  - [54896] 001 LEC, 12:00pm-12:50pm MWF, MonH 206; Albuquerque, Pedro H, 3 cr
- [4613] The Economics of Antitrust and Regulation (A-F only; prerequisite: 1023)
  - [54769] 001 LEC, 01:00pm-02:15pm MWF, SBE 36; McIntosh, Christopher Richard, 3 cr
- [4721] Natural Resource and Energy Economics (A-F only; prerequisite: 1023, preferred but not required: 2033)
  - [54770] 001 LEC, 02:00pm-02:50pm MWF, SBE 36; Anderson, Curt L, 3 cr
- [4991] Independent Study (max crs 6; 6 repeats allowed; A-F only; prerequisite Econ major, 12 cr or of Econ 3xxx or above, inst. consent)
  - [47699] 001 IND; O’Brien, A. Maureen, 1-6 cr

### EDUCATION (Edu)

- **College of Education & Human Service Professions**
  - [1000] Human Development (A-F only; prerequisite: 1022)
  - [50905] 001 LEC, 09:30am-10:45am TTh, MonH 206; Dietrich, Jane Ellen, 3 cr
  - [49937] 002 LEC, 02:00pm-03:15pm MW, MonH 206; Mitchell, Lorraine Marie, 3 cr
  - [1100] Human Diversity (A-F only; meets LEED req of LECD CAT08)
  - [48395] 001 LEC, 03:00pm-04:50pm M, MonH 1206; (Practice 2 hrs per wk arr); 2 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Hazareesingh, Nedra A, 3 cr

This information is accurate as of: 11/02/2007
This information is accurate as of: 11/02/2007

4500 Professional Issues in Teaching
(A-F only; prereq Admission to the elementary education program, successful completion of courses in block one and block two, no Grad School cr)

4501 Teaching English as a Second Language (A-F only; prereq English 2020, no Grad School cr)

4502 Teaching Language Arts (A-F only; prereq English 2020, no Grad School cr)

4503 College Writing (A-F only; prereq English 2020, no Grad School cr)

4504 Information Literacy (A-F only; prereq English 2020, no Grad School cr)

4505 Critical Thinking and Social Studies for Teachers (A-F only; prereq English 2020, no Grad School cr)

4506 Technology Integration in Social Studies (A-F only; prereq English 2020, no Grad School cr)

4507 Technology Integration in Science (A-F only; prereq English 2020, no Grad School cr)

4508 Environmental Education (A-F only; prereq English 2020, no Grad School cr)

4509 Teaching Science (A-F only; prereq English 2020, no Grad School cr)

4510 Integrating Science and Language Arts in the Classroom (A-F only; prereq English 2020, no Grad School cr)

4511 Literacy and Middle School Science (A-F only; prereq English 2020, no Grad School cr)

4512 Literacy and Elementary Science (A-F only; prereq English 2020, no Grad School cr)

4513 Teaching of Mathematics (A-F only; prereq English 2020, no Grad School cr)

4514 Teaching Middle School Mathematics (A-F only; prereq English 2020, no Grad School cr)

4515 Teaching Elementary Mathematics (A-F only; prereq English 2020, no Grad School cr)

4516 Teaching Middle School Mathematics (A-F only; prereq English 2020, no Grad School cr)

4517 Teaching Elementary Keyboarding and Computer Applications (A-F only; prereq English 2020, no Grad School cr)

5417 Teaching Elementary Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3417)

5418 Teaching Middle School Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3418)

5421 Teaching High School Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3421)

5422 Teaching Secondary Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3422)

5423 Teaching Grade School Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3423)

5424 Teaching Prekindergarten Keyboarding and Computer Applications Practicum (S-N only; prereq 3416 or 5416, pre ElEd, ElEd, pre UEd, UEd or pre non-degree card, no Grad School cr, Credit will not be granted if credit has been received for: 3424)
University of Minnesota - Class Schedule for Duluth Campus  
Spring 2008

This information is accurate as of: 11/02/2007

3206 Apprenticeship: Secondary School (A-F only; prereq Admission to EdSe program, Concurrent registration is required (or allowed) in 3204)
49111 001 PRC; 08:00am-08:50am MWF, MonH 108; (additional on-line hours required); Torres, Jill, 2 cr
49979 002 PRC; 01:00pm-01:50pm TTh, BohH 346; Torres, Jill, 2 cr

4100 Human Relations in Classrooms (A-F only; prereq Admission to EdSe program)
49115 001 LEC; 09:30am-10:45am TTh, MonH 108; Mongan-Rallis PhD, Helen, 2 cr

4120 Philosophy and Organization of the Middle School (A-F only; prereq Secondary Majors admitted to teacher education or pre-elementary education majors, 45 cr. Credit will not be granted if credit has been received for: 52120)
49429 001 LEC; 09:30am-10:45am TTh, Room TBA, DULUTH; Mongan-Rallis PhD, Helen, 2 cr

4212 Literature for Adolescents (A-F only; prereq Teaching and/or: major, minor or pre students or elem-middle educ, cadm/comm specialization, credit will not be granted if credit has been received for: 5215)
50441 001 LEC; 08:00am-08:50am MWF, MonH 121; Witikko, Neil, 3 cr

4244 Teaching Social Studies: Grades 5-12 (A-F only; prereq Admission to EdSe program, 3204 or instr consent; no Grad School cr)
49123 001 LEC; 04:00pm-06:00pm MWF, MonH 121; Roth, Pamela, 3 cr

4400 Professional Development Seminar for Secondary Education Majors (max crs 3.3 repeats allowed; A-F only; prereq Acceptance into EdSe program; no Grad School cr)
50501 001 LEC; (course will be conducted in an on-line learning environment); Gabler, Michael John, 1 cr
50501 002 LEC; (course will be conducted in an on-line learning environment); Torres, Jill, 1 cr
51977 @060 LEC; instruction mode: Distance Education Special; (Course will be conducted in an on-line learning environment for distance student (teachers only)); Gabler, Michael John, 1 cr

4501 Educational Psychology (A-F only; prereq Admission to EdSe program; no Grad School cr)
49119 001 LEC; 10:00am-10:50am MWF, MonH 108; (additional on-line hours required); Gliszczinski, Daniel Joseph, 3 cr
49121 002 LEC; 01:00pm-01:50pm MWF, MonH 108; (additional on-line hours required); Gliszczinski, Daniel Joseph, 3 cr

4600 Student Teaching (max crs 12; S-N only; prereq 4100, 4501; appropriate pre-professional course; no Grad School cr)
49599 001 PRC; 12 cr
49962 002 PRC; 12 cr
51097 003 PRC; 12 cr
51099 004 PRC; 12 cr
51101 005 PRC; 12 cr
51103 006 PRC; 12 cr
51105 007 PRC; 12 cr
51107 008 PRC; 12 cr
51109 009 PRC; 12 cr
51111 010 PRC; 12 cr

4993 Special Area Project (max cr 4; A-F only; prereq instr consent; no Grad School cr)
49827 001 DST; 1-4 cr

ELECTRICAL AND COMPUTER ENGINEERING (ECE)  
College of Science & Engineering

1315 Digital System Design (A-F only; prereq Pre-Engr, CNE, CS, ECE, IE majors only.)
5011 001 LEC; 10:00am-10:50am MWF, MWAH 191; Hayee, M Imran; 4 cr
47549 002 LAB; 09:00am-12:00pm T, MWAH 393; 4 cr
47551 003 LAB; 01:00pm-04:00pm T, MWAH 393; 4 cr

2006 Electrical Circuit Analysis (A-F only; prereq Phys 2011, Concurrent registration is required (or allowed) in Math 2321)
49171 001 LEC; 04:00pm-05:15pm TTh, MWAH 191; Hayee, M Imran; 4 cr
49489 003 LAB; 09:00am-12:00pm T, MWAH 391; 4 cr
49489 003 LAB; 01:00pm-04:00pm T, MWAH 391; 4 cr
50975 005 LAB; 04:00pm-07:00pm M, MWAH 391; 4 cr
53421 006 LAB; 04:00pm-07:00pm W, MWAH 391; 4 cr

2111 Linear Systems and Signal Analysis (A-F only; prereq 2006)
47595 002 LAB; 09:00am-12:00pm Th, MWAH 41; Hayee, M Imran; 4 cr
47597 003 LAB; 01:00pm-04:00pm Th, MWAH 41; Hayee, M Imran; 4 cr

2212 Electronics I (A-F only; prereq 2006)
49491 001 LEC; 12:00pm-12:50pm MWF, MPH 302; Weber, Paul J.; 4 cr
49613 002 LAB; Carroll, Christopher Ralph, 4 cr

3151 Control Systems (A-F only; prereq 2111)
49491 001 LEC; 04:00pm-05:15pm TTh, LSci 165; Stachowicz, Marian S; 3 cr

3235 Electromagnetics II (A-F only; prereq 2212)
49913 001 LEC; 11:00am-11:50am MWF, MWAH 191; Tang, Hua; 4 cr
49913 002 LAB; 09:00am-12:00pm Th, MWAH 293; Tang, Hua; 4 cr
50101 003 LAB; 01:00pm-04:00pm Th, MWAH 293; Tang, Hua; 4 cr

3341 Digital Computer Circuits (A-F only; prereq 2325)
49916 001 LEC; 08:00am-08:50am MWF, MWAH 191; Carroll, Christopher Ralph; 4 cr
49617 002 LAB; Carroll, Christopher Ralph, 4 cr

3611 Introduction to Solid-State Semiconductors (A-F only; prereq Phys 2012)
47635 001 LEC; 09:00am-09:50am MWF, Chem 155; Hasan, Mohammed A; 3 cr

This information is accurate as of: 11/02/2007

8005 Curriculum: Theory into Practice (A-F; prereq Ed. Majors or instr consent)
50009 001 LEC; 12:00pm-06:30pm Su, MonH 108; 01/27/08-02/07/08, 12:00pm-06:30pm Su, MonH 108; 02/08/08-02/10/08, 12:00pm-06:30pm Su, MonH 108, 03/09/08-03/09/08, 12:00pm-06:30pm Su, MonH 108, 04/13/08-04/13/08; Hermes, Mary Rose, 3 cr

8020 Doctoral Seminar (max crs 6; repeats allowed; S-N; prereq Ed. Majors)
55010 001 SEM; 02:45pm-07:00pm S, MonH 108, 01/26/08-01/26/08, 02:45pm-07:00pm S, MonH 108, 02/08/08-02/08/08, 02:45pm-07:00pm S, MonH 108, 03/08/08-03/08/08, 02:45pm-07:00pm S, MonH 108, 04/12/08-04/12/08; Munson PhD, Bruce H, 1 cr
ELECTIVE (ElEd)  

1010 Introduction to Elementary Education (A-F only; prereq Pre elementary education student)

49031 001 LEC, 02:00pm-03:15pm TTh, MonH 208; (Practicum 2 hrs per wk arr); Dietrich, Jane Ellen, 3 cr

44801 001 LEC, 02:00pm-02:50pm Th, MonH 108, 01:00pm-01:50pm Th, MonH 108; Hazareesingh, Neda A, 3 cr

3113 Learning Environments and Diverse Learning Communities (A-F only; prereq Admission to the elementary education program)

48805 001 LEC, 10:00am-11:50am MW, MonH 121; (Practicum arr); Stevenson PhD, Jean Myers, 4 cr

3331 Children's Literature and Integrated Creative Arts (A-F only; prereq Concurrent registration is required (or allowed) in the following:

48913 001 IND, 1-6 cr

3355 Critical Thinking: Elementary Mathematics (A-F only; prereq Successful completion of block one, concurrent registration is required (or allowed) in the following:

49131 002 LEC, 09:30am-10:45am MW, MonH 121; (Practicum arr); Kwako, Joan, 4 cr

3381 Teaching American Indian Students in the Elementary Classroom (A-F only; prereq Elementary education major)

50799 001 LEC, 01:00pm-02:50pm TTh, Room TBA, DULLT; Alberti, Peacock, Betsy L, 2 cr

50801 002 LEC, 01:00pm-02:50pm W, H 490, Alberti, Peacock, Betsy L, 2 cr

4344 Teaching Science and Environmental Education (A-F only; prereq Admission to elementary education program, successful completion of block one. Concurrent registration is required (or allowed) in 3381, 4344, 4345, 4366, SpEd5310, no Grad School cr)

51265 001 LEC, 01:00pm-02:50pm MW, MonH 151; (Practicum arr); Yoon PhD, Jo HYun, 4 cr

51267 002 LEC, 03:00pm-04:50pm MW, MonH 151; (Practicum arr); Yoon PhD, Jo HYun, 4 cr

49135 001 IND, 1-6 cr

53555 002 IND, 1-6 cr

4993 Special Area Project (max crs 6; A-F only; prereq Art ed cand or music ed cand, or phy ed cand or instr consent; no Grad School credit)

49135 001 PRC, 6 cr

51115 002 PRC, 6 cr

51117 003 PRC, 6 cr

51121 004 PRC, 6 cr

51097 005 PRC, 6 cr

51609 006 PRC, 6 cr

4991 Independent Study (max crs 6; S-N only; prereq Admission to elementary education program, successful completion of block one and block two courses, no Grad School cr)

49133 001 PRC, 12 cr

51085 003 PRC, 12 cr

51097 004 PRC, 12 cr

51099 005 PRC, 12 cr

51119 006 PRC, 12 cr

51091 007 PRC, 12 cr

51093 008 PRC, 12 cr

51095 009 PRC, 6 cr

52309 010 PRC, 6 cr

4650 Student Teaching in Individual Subjects: K-8 (max crs 7; 7 repeats allowed; S-N only; prereq Art ed cand or music ed cand, or phy ed cand or instr consent; no Grad School credit)

49435 001 PRC, 6 cr

51115 002 PRC, 6 cr

51117 003 PRC, 6 cr

51121 004 PRC, 6 cr

51097 005 PRC, 6 cr

51609 006 PRC, 6 cr

49135 001 IND, 1-6 cr

53555 002 IND, 1-6 cr

4993 Special Area Project (max crs 4; A-F only; prereq instr consent; no Grad School cr)

49137 001 DST, 1-4 cr

5993 Special Area Project (max crs 4; A-F only; prereq instr consent; no Grad School cr)

49139 001 DST, 1-4 cr

ENGINEERING (Engr)  

College of Science & Engineering  

2015 Statics (prereq Math 1297, Phys 2011)

47009 001 LEC, 11:00am-11:50am MWF, Engr 118; Dyre, Jake, 3 cr
ENGLISH (Engl) College of Liberal Arts

1001 Great American Authors
(A-F only; meets LEQ of LECACT)
51775 001 LEC, 09:00am-10:50am MW, MonH 203; 1 cr required for Continuing Education - EXPIRES 15-JAN-2008; Schwetman, John David, 3 cr

1101 Literature Appreciation
(A-F only; prereq Primarily for nonmajors but also for potential majors and creative writers. Credit will not be granted if credit has been received for: 1907; meets LEQ of LECACT)
89278 001 LEC, 08:00am-09:50am MF, BohH 190; 1 cr required for Continuing Education - EXPIRES 15-JAN-2008; Hole, Jeffrey, 3 cr

1535 King Arthur in History, Literature, and Art
(A-F only; meets LEQ of LECACT)
89271 001 LEC, 10:00am-11:50am Th, ABH 245; Twu, Krista Sue-Lo, 4 cr

1575 20th-Century Literature
(A-F only; prereq Primarily for nonmajors; meets LEQ of LECACT)
51211 001 LEC, 02:00pm-03:50pm M, ABAH 245; 3 cr required for Continuing Education - EXPIRES 15-JAN-2008; Hole, Jeffrey, 4 cr

1582 Introduction to World Literatures
(A-F only; meets LEIP req of LEIP CAT09)
89279 001 LEC, 10:00am-11:50am Th, ABAH 245; Twu, Krista Sue-Lo, 4 cr

1907 Introduction to Literature
(A-F only; prereq Primarily for nonmajors. Credit will not be granted if credit has been received for: 1101; meets LEQ of LECACT)
91548 001 LEC, 09:30am-10:45am Th, MonH 203; Bock, Martin F, 3 cr

2581 Women Writers
(A-F only; prereq 30 cr or instr consent; meets LECQ req of LECAT09)
52477 001 LEC, 09:00am-09:50am MF, FH 302; 08:00am-09:50am W, CinA 202; Cannan, Paul D, 4 cr

3502 British Literature II (A-F only; prereq Engl major and minor)
47553 001 LEC, 09:00am-09:50am MF, Engr 177; 09:00am-10:50am W, Engr 177; Wells, John, 4 cr

3554 American Literature II (A-F only)
47555 001 LEC, 12:00pm-01:50pm Th, H 403; Cannan, Paul D, 4 cr

3906 Methods of Literary Study
(A-F only; prereq Comp 1120, Engl major or Tch Comm Art/Lit major or instr consent)
50701 001 LEC, 03:00pm-04:50pm MW, CinA 102; Wells, John, 4 cr

4097 Internship in Publishing (max crs 6; S-N only; prereq minimum 60 credits, instr consent) Credit cannot be applied to Grad School credits, instr consent

5116 Advanced Writing of Fiction
(max crs 6; A-F only; prereq instr consent)
52001 001 SEM, 12:00pm-01:50pm Th, Chem 153; Maiolo, Joseph C, 4 cr

5122 Advanced Writing of Poetry
(max crs 6; A-F only; prereq 3121 or instr consent)
89280 001 LEC, 12:00pm-01:50pm M, H 4480; 12:00pm-01:50pm WF, H 4480; 4 cr

5124 Staging Shakespeare (A-F only; prereq 6 cr literature)
52479 001 LEC, 12:00pm-01:50pm Th, ABH 245; Twu, Krista Sue-Lo, 4 cr

5471 The Novella (A-F only; prereq Min 90 cr (12 cr lit) or instr consent)
89281 001 LEC, 03:00pm-04:30pm MW, BohH 346; Maiolo, Joseph C, 4 cr

5568 Irish Literary Revival (A-F only; prereq 6 cr lit)
53948 001 LEC, 12:00pm-01:50pm Th, ABH 445; Bock, Martin F, 4 cr

5575 Studies in American Literature after 1914 (A-F only; prereq 6 cr lit)
89293 001 LEC, 03:00pm-04:50pm MW, MonH 208; Schwetman, John David, 4 cr

5582 American Novel II (A-F only; prereq 6 cr lit)
91695 001 LEC, 11:00am-12:50pm MW, ABH 245; 10:00am-11:50am F, CinA 214; Schwetman, John David, 4 cr

5583 British Novel (A-F only; prereq 6 cr lit)
53963 001 LEC, 12:00pm-01:50pm MW, ABH 245; Witkko, Neil, 4 cr

5821 History of the English Language (A-F only)
90458 001 LEC, 09:00am-10:50am MW, H 314; Linn, Michael Duncan, 4 cr

8191 Seminar: American Literature (A-F only)
88285 001 SEM, 03:00pm-04:30pm MW, BohH 343; Brier, Evan, 4 cr

8333 FTE: Master's (NGA; prereq Master's student, adviser and DGS consent)
50295 001 DRS; Twu, Krista Sue-Lo, 1 cr

8444 FTE: Doctoral (NGA; prereq doctoral student, adviser and DGS consent)
49663 001 DRS; Twu, Krista Sue-Lo, 1 cr

8888 Thesis Credits: Doctoral (max crs 100; 10 repeats allowed; NGA; prereq [max 18 cr per semester or summer]; 24 cr required)
49741 001 THE; Twu, Krista Sue-Lo, 1-24 cr

8931 Practicum in Teaching Literature (A-F only; prereq 6 cr or grad-level literature or instructor consent)
50297 001 PRC; 1 cr

ENVIRONMENTAL EDUCATION (EnEd) College of Education & Human Service Professions

3309 Outdoor Leadership (S-N only; prereq Rec 2300, PEP 3507)
51757 001 LEC, 09:00am-11:00am T, SpHC 9A, 03/ 24-08/05/09/08; Pedersen, Paula Jean, 1 cr

3342 Field Interpretive Techniques II (A-F only; prereq 3341, instr consent; Credit will not be granted if credit has been received for: Rec3342)
48685 001 LEC, 02:00pm-05:00pm W, SpHC 9; Off campus field trips: 4/18-19.; Bates, Timothy Alan, 3 cr

50443 002 LEC, 02:00pm-05:00pm W, SpHC 9A; Off campus field trips: 4/18-19.; 3 cr
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<tr>
<td>5040</td>
<td>Environmental Studies Internship Preparation (S-N; prereq ES major, no Grad School credit)</td>
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<tr>
<td>5107</td>
<td>001 LEC, 03:00pm-04:20pm T, Cina 316; Freundschuh, Scott, 1 cr</td>
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**EXERCISE SCIENCE ATHLETIC TRAINING (ESAT)**

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<tr>
<td>2698</td>
<td>Clinical Experience in Athletic Training II (A-F Only; prereq 2697, Athletic Training major)</td>
</tr>
<tr>
<td>50731</td>
<td>001 CLN, 08:00am-09:15am T, SpHC 22; Streveler, Megan Jane, 2 cr</td>
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**Summer 2008**

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<tr>
<td>6502</td>
<td>001 LEC, 12:00am-12:50am MWF, SpHC 207; (requires a 75 min arr lab)</td>
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<tr>
<td>51825</td>
<td>002 LAB, 12:00am-12:15pm T, SpHC 201; Harkins, Kenneth J, 4 cr</td>
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<td>51829</td>
<td>003 LAB, 01:30pm-02:45pm T, SpHC 201; Harkins, Kenneth J, 4 cr</td>
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<td>3630</td>
<td>Athletic Injury Evaluation I (A-F Only; prereq 3601, athletic training major)</td>
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<tr>
<td>51908</td>
<td>001 LEC, 10:00am-10:50am MWF, SpHC 512, 10:00am-10:50am MWF, SpHC 22; Streveler, Megan Jane, 3 cr</td>
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**Therapeutic Modalities**

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<tr>
<td>3640</td>
<td>001 LEC, 08:00am-08:50am MWF, SpHC 207; Gear, William S, 3 cr</td>
</tr>
<tr>
<td>3698</td>
<td>001 LEC, 08:00am-08:50am MWF, SpHC 207; Gear, William S, 3 cr</td>
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<tr>
<td>4001</td>
<td>001 LEC, 10:00am-10:50am MWF, DAAB 16A; Gear, William S, 2, cr</td>
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**Continuing Education - EXPIRES 15-JAN-2008**

<table>
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<tr>
<td>50761</td>
<td>001 CLN, 01:00pm-01:50pm TTH, SpHC 22; Streveler, Megan Jane, 2 cr</td>
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<tr>
<td>4996</td>
<td>001 LEC, 02:00pm-04:00pm MWF, SpHC 201; Swanson, Karen Jane, 4 cr</td>
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**Family Medicine (FMed)**

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<td>5001</td>
<td>001 LEC, 12:00pm-01:15pm TTh, ABAH235; Mageau, Michael T, 3 cr</td>
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<tr>
<td>2803</td>
<td>Issues in Global Ecology (A-F Only; prereq Credit will not be granted if credit has been received for: Bio 2803; meets ESP req of LEP GP CAT 05)</td>
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<tr>
<td>49997</td>
<td>090 LEC, 06:00pm-08:50pm T, MorH 203; (Open CE reserved seats will be available to UM students on January 15, 2008); 10 seats reserved for Continuing Education - EXPIRES 15-JAN-2008; Klemer, Andrew 05-10 cr</td>
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**Duluth School of Medicine**

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<tr>
<td>49575</td>
<td>001 LEC; Nordehn, Glenn Herbert, 2 cr</td>
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<tr>
<td>4642</td>
<td>002 LAB, 12:00am-12:15pm T, SpHC 201; Harkins, Kenneth J, 4 cr</td>
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This information is accurate as of: 11/02/2007
FINANCE & MANAGEMENT INFORMATION (FMIS) Labovitz School of Business & Economics

2201 Information Technology in Business (A-F only; prereq LSBE student or Computer Information Systems majors, min 15 or college consent. Credit will not be granted if credit has been received for: 1201 or 3011)

51439 001 LEC, 11:00am-12:15pm TTh, Morin, J, 3 cr

51441 002 LEC, 11:00am-12:15pm TTh, Computer Information Systems major; Meets with: 51439 FMIS 2201; Li, Dahui, 3 cr

51733 003 LEC, 08:00am-08:50am MWF, SCD 120; (LSBE students); Meets with: 51735 FMIS 2201; Person, Phd, Henry, B, 3 cr

51735 004 LEC, 08:00am-08:50am MWF, SCD 120; (Computer Information Systems major); Meets with: 51735 FMIS 2201; Person, Phd, Henry, B, 3 cr

48087 001 LEC, 12:00pm-01:15pm MWF, SBE 40; (A-F only; prereq LSBE cand or college consent)

2225 Introduction to Visual Basic .NET Programming (Credit will not be granted if credit has been received for: CS 1211; A-F only; prereq LSBE student, 1201 or 2201, or concurrent registration, or college consent)

52413 001 LEC, 12:30pm-01:45pm TTh, KPlz 143; Person, Phd, Henry, B, 3 cr

3141 Business Communications (A-F only; prereq LSBE cand or Econ major or college consent)

48087 001 LEC, 08:00am-09:15am TTh, SBE 40; (LSBE candidates); Meets with: 49537 FMIS 3141; Merrier, Patricia, A, 3 cr

49537 002 LEC, 08:00am-09:15am TTh, SBE 40; (Economics majors); Meets with: 48087 FMIS 3141; Merrier, Patricia, A, 3 cr

48089 003 LEC, 11:00am-12:15pm TTh, SBE 40; (Accounting majors and candidates only); Meets with: 49535 FMIS 3141; Merrier, Patricia, A, 3 cr

49539 004 LEC, 11:00am-12:15pm TTh, SBE 40; Meets with: 48089 FMIS 3141; Merrier, Patricia, A, 3 cr

50741 005 LEC, 02:00pm-03:15pm TTh, SBE 40; (LSBE candidates); Meets with: 50743 FMIS 3141; Merrier, Patricia, A, 3 cr

50743 006 LEC, 02:00pm-03:15pm TTh, SBE 40; (Economics candidates); Meets with: 50743 FMIS 3141; Merrier, Patricia, A, 3 cr

50745 007 LEC, 03:00pm-04:15pm TTh, SBE 40; (Economics majors); Meets with: 50745 FMIS 3141; Merrier, Patricia, A, 3 cr

50747 008 LEC, 03:00pm-04:15pm TTh, SBE 40; (Computer Information Systems majors); Meets with: 50747 FMIS 3141; Wang, Junhua, 3 cr

51033 009 LEC, 12:00pm-12:50pm MWF, Engr 290; (LSBE candidates); Meets with: 51035 FMIS 2411; Wang, Junhua, 3 cr

51035 010 LEC, 12:00pm-12:50pm MWF, Engr 290; (Economics majors); Meets with: 51035 FMIS 2411; Wang, Junhua, 3 cr

3222 Systems Analysis and Design (A-F only; prereq (2201 or 3201), 3421, LSBE cand or college consent.)

48093 001 LEC, 11:00am-12:15am T, MonH 108, 11:00am-12:15pm TTh, SBE 216; Hassan, Nik, R, 3 cr

3230 Extensible Markup Language and its Applications (A-F only; prereq 2201 or 3201, LSBE candidate, or college consent)

51025 001 LEC, 09:00am-09:50am MWF, SBE 40; Lee, Seung Chan, 3 cr
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<th>Course Code</th>
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<td>1102</td>
<td>Beginning French II</td>
<td>A-F</td>
<td>4</td>
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<td>02:00pm-03:15pm TTh</td>
<td>Cina 316</td>
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<td>1304</td>
<td>Human Geography</td>
<td>A-F</td>
<td>3</td>
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<td>02:00pm-02:50pm MWF</td>
<td>Cina 490</td>
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<td>2315</td>
<td>French Cinema</td>
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<td>4</td>
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<td>02:00pm-03:15pm TTh</td>
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<td>3591</td>
<td>Independent Study in Geography</td>
<td>Freundschuh, Scott</td>
<td>1-4</td>
<td>IND</td>
<td>11:00am-12:15pm MW</td>
<td>Cina 316</td>
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<td>3312</td>
<td>Advanced French Composition and Conversation</td>
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<td>3</td>
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<td>09:00am-10:50am TTh</td>
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<td>Geography of Population, Gender, and Migration</td>
<td>A-F</td>
<td>3</td>
<td>IND</td>
<td>09:30am-10:45am Th</td>
<td>Cina 308</td>
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<td>3461</td>
<td>Geography of Global Resources</td>
<td>A-F</td>
<td>3</td>
<td>IND</td>
<td>08:00am-09:15am TTh</td>
<td>Cina 308</td>
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<td>3572</td>
<td>Map Design and Graphic Methods</td>
<td>A-F</td>
<td>4</td>
<td>LEC</td>
<td>08:00am-09:50am W H458</td>
<td>Freundschuh, Scott</td>
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<td>5446</td>
<td>Water Processes and Management</td>
<td>A-F</td>
<td>4</td>
<td>LAB</td>
<td>10:00am-11:50am Th</td>
<td>Cina 468</td>
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<td>5541</td>
<td>Environmental Application of GIS</td>
<td>A-F</td>
<td>4</td>
<td>LAB</td>
<td>09:00am-10:00pm M Th</td>
<td>Cina 316</td>
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<tr>
<td>2552</td>
<td>Introduction to Maps and Cartographic Methods</td>
<td>A-F</td>
<td>4</td>
<td>LEC</td>
<td>09:00am-10:50am W Cina 316; (Open CE reserved seats will be available to UMD students on January 15, 2008.)</td>
<td>Freundschuh, Scott</td>
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<td>3334</td>
<td>Urban Geography</td>
<td>A-F</td>
<td>3</td>
<td>IND</td>
<td>11:00am-12:15pm MW</td>
<td>Cina 316</td>
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<td>3991</td>
<td>Independent Study in Geography</td>
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<td>3</td>
<td>LAB</td>
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<td>3</td>
<td>LAB</td>
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<td>A-F</td>
<td>3</td>
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<td>08:00am-09:50am W H458</td>
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<td>1414</td>
<td>Physical Geography</td>
<td>A-F</td>
<td>4</td>
<td>LEC</td>
<td>09:00am-10:00pm T Th</td>
<td>Chung 175</td>
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<td>1304</td>
<td>Human Geography</td>
<td>A-F</td>
<td>3</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<td>2405</td>
<td>Geography of Cultural Diversity</td>
<td>A-F</td>
<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<td>22</td>
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<td>A-F</td>
<td>4</td>
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<td>Chung 175</td>
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<td>3212</td>
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<td>A-F</td>
<td>4</td>
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<td>09:00am-10:00pm M Th</td>
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<td>A-F</td>
<td>4</td>
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<td>Chung 175</td>
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<td>A-F</td>
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<td>Chung 175</td>
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<td>Geography of Global Resources</td>
<td>A-F</td>
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<td>Chung 175</td>
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<td>3572</td>
<td>Map Design and Graphic Methods</td>
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<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<td>5446</td>
<td>Water Processes and Management</td>
<td>A-F</td>
<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<td>5541</td>
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<td>A-F</td>
<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<tr>
<td>2552</td>
<td>Introduction to Maps and Cartographic Methods</td>
<td>A-F</td>
<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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<tr>
<td>3334</td>
<td>Urban Geography</td>
<td>A-F</td>
<td>4</td>
<td>IND</td>
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<td>Physical Geography</td>
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<td>4</td>
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<td>09:00am-10:00pm M Th</td>
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<td>1304</td>
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<td>A-F</td>
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<td>09:00am-10:00pm M Th</td>
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<td>4</td>
<td>IND</td>
<td>09:00am-10:00pm M Th</td>
<td>Chung 175</td>
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This information is accurate as of: 11/02/2007
GERMAN (Ger)
College of Liberal Arts

1102 Beginning German II (A-F only; preq: 1-2 yrs high school Ger or 1101 or instr consent; meets LE req of LE CAT5)
47487 001 LEC, 08:00am-08:50am MTTHF, Engr 118; 1 cr; Open LE req of LE CAT5.
47487 001 LEC, 08:00am-08:50am MTTHF, H 464; 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; , 4 cr
1202 Intermediate German II (A-F only; preq: 4 yrs high school Ger or 1201 or instr consent; meets LEIP req of LEIP CAT08)
47489 001 LEC, 10:00am-10:50am MTTHF, Engr 118; Mullins, Michael John, 4 cr
50005 002 LEC, 08:00am-08:50am MTTHF, H 464; Mullins, Michael John, 4 cr
2402 Germany Today (A-F only; preq: Cr will not count toward Ger major or minor; meets LEIP req of LEIP CAT08)
54747 001 LEC, 08:00am-09:50am MTTHF, Engr 118; , 3 cr
3302 Advanced Composition and Conversation (A-F only; preq: 2301)
50277 001 SEM, 09:00am-12:50pm MTTHF, H 464; Hylenski, Kristen, 4 cr
4503 001 IND, 1-4 cr
3591 Independent Study (max crs 8; 8 repeats allowed; A-F only: preq: 2301 4 with a grade of C or higher or equiv or instr consent)
47491 001 IND, 1-4 cr
4404 Contemporary Germany (A-F only; preq: 2301 with a grade of C or higher or equiv instr consent; no Grad School credit)
54748 001 LEC, 08:00am-09:50am MTTHF, H 464; Hylenski, Kristen, 4 cr

GRADUATE SCHOOL (Grad)
UMD-Academic Administration

999 Graduate School Active Status (90 repeats allowed; NGA; preq Grad School Students Only)
50507 001 IND, 0 cr

HEALTH (Hlth)
College of Education & Human Service Professions

1100 Health and Wellness Strategies for Life (A-F only; preq: Credit will not be granted if credit has been received for: Hlth 1000; meets LE req of LE CAT8)
50119 001 LEC, 11:00am-11:50am MTWF, SpHC 208; Skrbich, Karen O, 3 cr
50165 002 LEC, 01:00pm-01:50pm MTWF, SpHC 212; 2 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Wendering, Patricia, J, 3 cr
50001 003 LEC, 09:00am-09:50am MTWF, SpHC 210; 1 seat reserved for Continuing Education - EXPRES 15-JAN-2008; Halks, Charlene Gail, 3 cr
1104 Health Science Terminology (max crs 3; 3 repeat allowed; A-F only)
47530 200 INI; (1-3 credits - Individualized Instruction-16 week course - register anytime. Initial information for INI courses is available at http://www.d.umn.edu/goto/ini. Students must click on “Getting Started After Registration” to begin. The credit is delivered online. students must take the course. Test times may be arranged with the instructor. & Open LE req of LE CAT5. Tests will be administered in H 470 on Tuesdays from 11-11:50 am during 508. Contact instructor to arrange alternate test times; 2 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Skrbich, Karen O, 1-3 cr

1470 Human Nutrition (A-F only; meets LE req of LE CAT5)
47541 001 LEC, 08:00am-08:50am MTWF, Chem 200; 4 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Halks, Charlene Gail, 3 cr
47543 002 LEC: Permission number is required to register. Online Individualized Instruction-Students must be registered and begin the course at the start of the semester, which is January 22, 2006, and complete all requirements by May 9, 2008. No exceptions.

1600 Basic First Aid and CPR (A-F only)
48749 001 LEC, 08:00am-08:50am MTWF, SpHC 8; Skrbich, Karen O, 2 cr
48761 002 LEC, 10:00am-10:50am MTWF, SpHC 8; Skrbich, Karen O, 2 cr
50217 003 LEC, 08:00am-08:50am TTh, SpHC 8; Flessner, Elizabeth A, 2 cr
51191 004 LEC, 12:00am-12:50am MTWF, SpHC 8; Flessner, Elizabeth A, 2 cr

1650 CPR/AED for the Professional Rescuer (A-F only)
52029 001 LEC, 01:00pm-01:50pm MTWF, SpHC 8, 01/ 22/08-03/14/08; Streveler, Megan Jane, 1 cr
49515 090 LEC, 06:00pm-06:50pm W, 01/ 24/08-05/09/08; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 4 seats reserved for Continuing Education - EXPRES 15-JAN-2008, 1 cr

1700 First Responder (A-F only)
48941 001 LEC, 12:00am-12:50am MTWF, SpHC 8; Flessner, Elizabeth A, 2 cr
49883 002 LEC, 09:30am-10:45am MTWF, SpHC 8; Skrbich, Karen O, 3 cr

2040 Principles of Human Physiology (A-F only; preq: Athletic training or hld ed or pe or rec or ex sci majors or cand or hld ed minor, 1 sem each of college Biol, Chem, Anat recommended)
48835 001 LEC, 11:00am-11:50am MTWF, MonH 203; Keeney, Ph.D., John, R, 4 cr

3011 Community Health (A-F only)
48855 001 LEC, 02:00pm-03:15pm TTh, SpHC 208; Tornabene, Lacie T, 3 cr
3117 Principles of Sex Education (A-F only; preq: hld ed can or instr consent)
47597 001 LEC, 09:30am-10:45am TTh, SpHC 207; Keeney, Georgia Lynn, 3 cr

3118 Women’s Health Issues (A-F only)
47615 090 LEC, 06:00pm-06:50pm, 02/08-05/09/08; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 5 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Doane PhD, H, 3 cr

3161 School Health Programs: Early Childhood through Middle School (A-F only; preq: ElEd 1010 and completion of 45 cr, el/middle school educ, hld ed or EChCand or preemph doctor education)
46625 001 LEC, 03:00pm-04:50pm M, SpHC 207; Skrbich, Karen O, 2 cr
50449 002 LEC, 01:00pm-01:50pm MTWF, SpHC 207; Skrbich, Karen O, 2 cr

3202 Drug Education (A-F only; preq: Grad cr)
47711 001 LEC, 02:00pm-02:50pm TTh, Chem 150; Skrbich, Karen O, 2 cr
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<td>School Health Education Methods and Materials</td>
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<td>48849</td>
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<td>52065</td>
<td>Professional Issues for Health Educators</td>
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<td>The United States and the World since 1898</td>
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<td>3398</td>
<td>Colloquium for Majors</td>
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This information is accurate as of: 11/02/2007

24
INDUSTRIAL ENGINEERING (IE)
College of Science & Engineering

1225 Introduction to Design and Manufacturing Engineering
(A-F; prereq: Math 1296 or instr consent)
90203 004 LAB, 01:00pm-02:50pm Th, Room TBA,
90201 002 LAB, 01:00pm-02:50pm T, Room TBA,
89515 001 LEC, 02:00pm-02:50pm MWF, VKH 221;
89513 002 LAB, 01:00pm-02:50pm T, VKH 201;
50159 004 LAB, 10:00am-11:50am F, Room TBA;
50158 003 LAB, 10:00am-11:50am MWF, VKH 201;
50157 002 LAB, 08:00am-09:50am F, Engr 204;
47801 001 DRS, 04:30pm-05:30pm W, H 458, 0 cr

3122 Materials Engineering Laboratory
(A-F; prereq: Math 1296 or instr consent)
89511 001 LEC, 10:00am-11:50am Th, VKH 221,
10:00am-11:50am Th, Engr 204; Chen, Hongyi, 4 cr

3222 Occupational Systems Laboratory
(A-F; prereq: IE 2102, 3140, Concurrent registration is
required (or allowed) in Stat 3411, BSEE or
BSEME, or instr consent)
53361 001 LEC, 11:00am-11:50am MWF, KPz 312;
Zierden, Hannah E, 3 cr

3310 Materials Processing Engineering
(A-F; prereq: Engr 2110, Engr 2016, Stat 3411)
89515 001 LEC, 02:00pm-02:50pm MWF, VKH 221;
Enemuoh, Emmanuel U, 3 cr

4010 Six Sigma Quality Control
(Credit will not be granted if credit has been received:
IE 3255; A-F; prereq Stat 3411, no
Grad School cr)
89523 001 LEC, 10:00am-10:50am MWF, Room
TBA; Zierden, Heidi Sue, 3 cr

4020 Lean Enterprises Management
(A-F; prereq: IE 2222, 3125, no Grad School cr)
89525 001 LEC, 09:00am-09:50am MWF, VKH 221;
Meet with: 54844 EMGT 5240; Rosandich
PhD, Ryan G, 3 cr

4196 Cooperative Education
(max crs 2; A-F; only; prereq BSEE candidate, no
Grad School cr)
90007 @001 IEX, instruction mode: Distance
Education Other; Keranen, David J., 1 cr

4255 Multidisciplinary Senior Design
(A-F; prereq: EMGT 4110, BSEE cand, or instr
consent, no Grad School credit; Credit will not be
granted if credit has been received for: ME
4255)
001 LEC, 03:00pm-04:00pm T, DADB 16A;
Keranen, David J., 1 cr

4941 Independent Study
(max crs 4; 4 repeats allowed; A-F; only; prereq
BSEE or BSME cand, dept consent)
49009 001 IND, 1 cr

4991 Industrial Engineering Seminar
(max crs 2; S-N only; prereq BSEE or BSCE or
BSEECE or BSME or MEHS cand or instr consent;
no Grad School credit)
50307 001 LEC, 12:00pm-12:50pm M, Engr 280;
(ITU); Meets with: 51349 EMGT 8993;
Keranen, David J., 1 cr

5315 Organizational Control Methods
(A-F; only; prereq BSEE or BSME cand or dept
consent)
51843 001 LEC, 06:00pm-08:50pm W, Engr 204; ITV
room; Keranen, David J., 3 cr

INTEGRATED BIOSCIENCES (IBS)
College of Science & Engineering

5101 Biochemistry and Molecular Biology
(A-F; prereq: Chem 3431 or equivalent)
53389 001 LEC, 03:00pm-04:15pm Th, Room TBA;
Class will meet in SSB 207A.; 3 cr

8012 Integrated Evolutionary Processes
(A-F; only; prereq: IS 2011, BBS Grad student)
52745 001 LEC, 10:00am-10:50am MWF, SSB 207A;
Craigh, Timothy Paul, 2 cr

8020 Integrated Biosciences Colloquia
(max crs 4; 4 repeats allowed; S-N; prereq IBS
Graduate Student)
52747 001 COL, 09:00am-09:50am M, Chem 150;
Class will meet in SSB 207A.; ; 1 cr

8030 IBS Research Club
(max crs 5; 5 repeats allowed; S-N only; prereq
IBS Graduate Student)
53931 001 SEM, 04:00pm-04:50pm W, Chem 155;
Class will meet in SSB 207A.; , 1 cr

8103 Comparative Animal Physiology
(A-F; prereq: One year of college biology, two years
of college chemistry; 8011, BBS Grad School student)
53405 001 LEC, 11:00am-12:15pm Th, Room TBA;
Class will meet in SSB 207A.; Fitzzrakerly,
Janet Lyn; Regal, Jean Frances; Hellekant
PhD, Gwendolyn; Heller, Lois Jane;
Trachte, George J; Mensinger, Allen, 3 cr

8201 Ecological Processes
(A-F; only; prereq: IS 2011, BBS Grad School student)
52749 001 LEC, 01:00pm-02:50pm M, MWAH 191;
Class will meet in SSB 207A.; Habib; Thomas,
Pastor; John Joseph, 2 cr

8777 Thesis Credits: Master’s
(max crs 50; 10 repeats allowed; NGA; prereq
Max 18 cr per semester or summer; 10 cr total
required (Plan A only))
53447 001 THE, 1-18 cr

INTERDISCIPLINARY STUDIES (IS)
College of Liberal Arts

3001 Interdisciplinary Methods Seminar
(A-F; only; prereq: instr consent)
52665 001 SEM, 02:00pm-04:50pm M, Chem 153;
This class meets concurrently with CST
4653.; Baciq, Thomas D, 2 cr

3099 Senior Project
(max crs 10; A-F; only; prereq instr consent)
47573 001 IND; Baciq, Thomas D, 1-10 cr

5001 Construction and Deconstruction of Nation: Reflections of 20th Century
Hispanic History
(A-F; prereq Min 90 cr)
90665 090 LEC, 05:00pm-08:50pm Th, BohH 108;
(Open CE reserved seats will be available to UMD
students on January 15, 2008.); 7 seats
reserved for Continuing Education - EXPIRES
15-JAN-2008; Tobin, Stanley,
Maureen, 2 cr

5002 Exodus and Exile in Contemporary Cinema
(A-F; prereq: Min 90 cr)
90666 090 LEC, 05:00pm-08:50pm Th, BohH 108;
(Open CE reserved seats will be available to UMD
students on January 15, 2008.); 7 seats
reserved for Continuing Education - EXPIRES
15-JAN-2008; Zinn, Geasa, 4 cr

8501 Seminar: Ethics and the Human Condition
(A-F; only; prereq MLS candidate or department
consent)
48951 821 LEC, 06:00pm-09:50pm T, DADB 16A;
Zinn, Geasa, 4 cr

8591 Directed Study
(max crs 8; 8 repeats allowed; A-F; only; prereq
MLS candidate or department consent)
48945 821 DST; Zinn, Geasa, 1-8 cr

INTERNATIONAL STUDIES (IntS)
College of Liberal Arts

1191 International Study
(max crs 15; max 15 repeats allowed; A-F; only; prereq
dept consent)
47835 001 IND, 1-5 cr

3191 International Study
(max crs 15; max 15 repeats allowed; A-F; only; prereq
dept consent)
47837 001 IND, 1-5 cr

3197 International Internship
(max crs 8; 8 repeats allowed; S-N; Nonly; 50 cr, dept consent; max 4 cr may be applied to
IntS major)
48975 001 IEX, 1-6 cr

4100 Seminar in International Studies
(A-F; only; prereq Pol 1050, 60 cr incl upper div cr
approved IntS courses or instr consent)
52003 001 SEM, 10:00am-11:50am TTh, MWAH
191; Capriotti, Mary C, 4 cr
89268 002 SEM, 06:00pm-09:50pm M, Cina 316;
Sharp, Paul, 4 cr

4891 Independent Study
(max crs 5; S-F; only; prereq 8 cr IntS, instr consent)
49798 001 IND, 1-5 cr

JOURNALISM (Jour)
College of Liberal Arts

2001 Reporting and Writing I
(A-F; prereq: Comp 1120)
51705 001 LEC, 01:00pm-01:50pm MWF, H 484.; 3 cr
This information is accurate as of: 11/02/2007
This information is accurate as of: 11/02/2007
MECHANICAL ENGINEERING (ME)
College of Science & Engineering

3111 Fluid Mechanics
(Credit will not be granted if credit has been received for: CHE 3111; A-F only; prereq: Engr 2026, BSME or BSChE cand or instr consent)
53063 001 LEC, 10:00am-10:50am MW, ENGR 201; Abou, Seraphin Chaly, 3 cr

3140 System Dynamics and Control
(A-F only; prereq: CS 1114 or CS 1117 or CS 1111 and EC 2211, ECE 2006, Math 2308, BSME cand or instr consent)
53065 001 LEC, 02:00pm-02:50pm MW, Chem 155; Yu, Xun, 3 cr

3211 Thermodynamics
(A-F only; prereq: Phys 2012, ME 3111, BSME cand or instr consent)
50547 001 LEC, 08:00am-08:50am MW, Chem 155; Baltia, ABret Alan, 3 cr

3222 Control and Kinematics Laboratory
(A-F; prereq: 3140 with a grade of C- or better, IE 3122, Concurrent registration is required (or allowed) in 3230; Credit will not be granted if credit has been received for: IE 4135 and/or ME 4135)
53067 001 LEC, 10:00am-10:50am MW, HH 221; Meets with: 89543 002 LAB, 03:00pm-04:30pm Th, VKH 162; Yu, Xun, 2 cr
59354 001 LAB, 10:00am-10:50am Th, VKH 162; Yu, Xun, 2 cr

3230 Kinematics and Mechatronics
(A-F; prereq: 3140, Credit will not be granted if credit has been received for: 4135)
59566 001 LEC, 11:00am-11:50am MW, VKH 221; Lindeke, Richard R, 3 cr
59567 002 LEC, 09:00am-09:50am MW, KPlz 395; Lindeke, Richard R, 3 cr

4112 Heat and Mass Transfer
(Credit will not be granted if credit has been received for: CHE 3112; A-F only; prereq: 3211, Math 3296, BSME or BSChE cand or instr consent)
52717 001 LEC, 01:00pm-01:50pm MW, KPlz 395; Pope, Daniel, 2 cr

4122 Heat Transfer, Thermodynamics and Fluid Mechanics Laboratory
(A-F only, Concurrent registration is required (or allowed) in 4122 or CHE 3112 and/or instr consent, BSME cand)
52718 001 LEC, 04:00pm-04:50pm Th, VKH 164; Pope, Daniel, 2 cr
52719 002 LAB, 10:00am-11:50am Th, VKH 164; Pope, Daniel, 2 cr

4145 CAD/CAM
(A-F only; prereq: Engr 2016, BSEE International Engineering, or BSME cand, or instr consent, Credit will not be granted if credit has been received for: IE 4145)
48675 001 LEC, 03:00pm-03:50pm MW, Engr 280; Fugelso, Mark A, 4 cr
48676 002 LAB, 06:00pm-06:50pm M, Engr 208; Fugelso, Mark A, 4 cr
48677 003 LAB, 06:00pm-06:50pm W, Engr 208; Fugelso, Mark A, 4 cr

4175 Machine Design
(A-F only; prereq: Engr 2016, Engr 2110, BSME cand or instr consent; Credit will not be granted if credit has been received for: IE 4175)
50719 001 LEC, 11:00am-11:50am MW, Engr 280; Fugelso, Mark A, 3 cr

4196 Cooperative Education
(A-F only; prereq: BSME cand, instr consent, no Grad School credit; Credit will not be granted if credit has been received for: IE 4196)
51851 001 IEK, Keranen, David J., 1 cr

4255 Multidisciplinary Senior Design
(A-F only; prereq: EMgt 4110, BSME cand, or instr consent; no Grad School credit)
50095 001 LEC, 03:00pm-04:05pm Th, Engr 260; Voss, John C

50096 002 LAB, 01:00pm-04:50pm Th, Engr 260; Voss, John C, 4 cr

4981 Independent Study in Mechanical Engineering
(max crs 4; 4 repeats allowed; prereq for standing in engineering discipline, instr consent)
51433 001 IND, 1-4 cr

MEDICAL AND MOLECULAR PHYSIOLOGY (Phs)
Duluth School of Medicine

3011 General Physiology
(A-F only; prereq: Biol 1761 or Chem 1102 or instructor consent)
49075 001 LEC, 01:00pm-01:50pm M, Room TBA; Class meets in Med 68...
51433 002 LEC, 02:00pm-04:00pm Th, Room TBA; Class meets in Med 68...

5062 Physiology of Organ Systems II
(A-F only; prereq: 5601 or instructor consent)

89541 003 LEC, 11:00am-11:50am MW, HH 221; Mohrman, David E, 2 cr

5701 Sensory Physiology
(A-F; prereq: instr consent)

91243 001 DIS, 08:00am-10:00am Th, Room TBA; Fitzakerley, Janet Lyn, 2 cr

8333 FTE: Master’s
(NGA; prereq: Master’s student, adviser and DGS consent)

47313 001 DRS; James, Barry R, 1 cr

8777 Thesis Credits: Master’s
(max crs 50; 10 repeats allowed; NGA, prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only))

49723 001 THE; Fei, Guihua, 1-18 cr
51309 002 THE; Frank, Chris, 1-18 cr
51310 002 THE; Gallian, Joseph A, 1-18 cr
51314 003 THE; Green, Richard F, 1-18 cr
51315 005 THE; Greene, John Robert, 1-18 cr
51316 006 THE; James, Barry R, 1-18 cr
51317 007 THE; James, Kang Ling, 1-18 cr
51318 008 THE; Latterell, Carmen Marie, 1-18 cr
51319 009 THE; Lenz, Kathryn E, 1-18 cr
51320 010 THE; Liu, Zhanyi, 1-18 cr
51325 011 THE; McFarland, Robert L, 1-18 cr
51327 012 THE; Peckham, Bruce B, 1-18 cr
51329 013 THE; Qi, Yongcheng, 1-18 cr
51331 014 THE; Regal, Ronald Ray, 1-18 cr
51332 015 THE; Stech, Harlan W, 1-18 cr
51335 016 THE; Trogdon, Steven Arman, 1-18 cr
51983 017 THE; Hampton, Marshall E, 1-18 cr

9894 Directed Research
(max crs 12; 12 repeats allowed; A-F only; prereq Instructor consent)
49279 001 DRS; Fei, Guihua, 1-18 cr
49281 002 DRS; Frank, Chris, 1-18 cr
49282 003 DRS; Gallian, Joseph A, 1-18 cr
49283 004 DRS; Green, Richard F, 1-18 cr
49285 005 DRS; Greene, John Robert, 1-18 cr
49287 006 DRS; James, Barry R, 1-18 cr
49291 007 DRS; James, Kang Ling, 1-18 cr
49292 008 DRS; Latterell, Carmen Marie, 1-18 cr
49293 009 DRS; Lenz, Kathryn E, 1-18 cr
49294 010 DRS; Liu, Zhanyi, 1-18 cr
49295 011 DRS; McFarland, Robert L, 1-18 cr
49302 012 DRS; Peckham, Bruce B, 1-18 cr
49303 013 DRS; Qi, Yongcheng, 1-18 cr
49305 014 DRS; Regal, Ronald Ray, 1-18 cr
49306 015 DRS; Stech, Harlan W, 1-18 cr
49494 016 DRS; Trogdon, Steven Arman, 1-18 cr
51987 017 DRS; Hampton, Marshall E, 1-18 cr

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<td>49363</td>
<td>Music</td>
<td>002 STU, 01:00pm-01:50pm Th, H 221; (+ 1 hr arr lesson); Nef, Kathleen Ann; Van Brun, Laurie; Campbell, Jefferson T; Schoen, Theodore A</td>
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<td>Woodwinds</td>
<td>001 STU, (Flute) (1/2 hr weekly lesson must be arranged with instructor in H231); Nef, Kathleen Ann</td>
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<td>51477</td>
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<td>51481</td>
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<td>1371</td>
<td>Brass</td>
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<td>1391</td>
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**1396 Jazz Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1422 Piano Class II**
(A-F only; prereq Music major or instr consent)

**1441 Vocal Techniques**
(prereq Music major or instr consent)

**1450 Concert Band**
(max crs 12; 12 repeats allowed; A-F only; prereq Music major or consent)

**1451 Chamber Music**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**1455 Music Technology**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**50191 002 LAB, 09:00am-09:50am Th, H 231; (+ 1/2 hr arr lesson); O’Hara, Thomas; Barnard, William Michael | 1 cr |

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1441 Vocal Techniques**
(prereq Music major or instr consent)

**1450 Concert Band**
(max crs 12; 12 repeats allowed; A-F only; prereq Music major or consent)

**1451 Chamber Music**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**1455 Music Technology**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**50191 002 LAB, 09:00am-09:50am Th, H 231; (+ 1/2 hr arr lesson); O’Hara, Thomas; Barnard, William Michael | 1 cr |

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1441 Vocal Techniques**
(prereq Music major or instr consent)

**1450 Concert Band**
(max crs 12; 12 repeats allowed; A-F only; prereq Music major or consent)

**1451 Chamber Music**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**1455 Music Technology**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**50191 002 LAB, 09:00am-09:50am Th, H 231; (+ 1/2 hr arr lesson); O’Hara, Thomas; Barnard, William Michael | 1 cr |

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1398 Pop Styles Guitar**
(A-F only; Non-Music major or Music major sec instr; may be repeated)

**1441 Vocal Techniques**
(prereq Music major or instr consent)

**1450 Concert Band**
(max crs 12; 12 repeats allowed; A-F only; prereq Music major or consent)

**1451 Chamber Music**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**1455 Music Technology**
(max crs 6; 12 repeats allowed; A-F only; prereq Music major or consent)

**50191 002 LAB, 09:00am-09:50am Th, H 231; (+ 1/2 hr arr lesson); O’Hara, Thomas; Barnard, William Michael | 1 cr |
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<th>Course Code</th>
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<td>Survey of American Music</td>
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<td>2005</td>
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This information is accurate as of: 11/02/2007
4362 Woodwinds
(max crs 12; 12 repeats allowed; A-F only; prereq Non-music major or music major secondary instrument)
48727 001 STU; (Flute) (1/2 hr weekly lesson must be arranged with instructor in H 231); Neff, Kathleen W, 1 cr
51484 002 STU; (Clarinet) (1/2 hr weekly lesson must be arranged with instructor in H 231); Schoen, Theodore A, 1 cr
51487 003 STU; (Saxophone) (1/2 hr weekly lesson must be arranged with instructor in H 231); Van Brun, Laurie, 1 cr
51491 005 STU; (Bassoon) (1/2 hr weekly lesson must be arranged with instructor in H 231); Campbell, Jefferson T, 1 cr

4371 Brass
(max crs 12; 12 repeats allowed; A-F; prereq Music major, dept consent)
48731 001 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1/2 hr arr lesson); Whitlock, Mark Eugene; Eaton, Daniel W; Pospisil, James A, 1 cr
49091 002 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1 hr arr lesson); Whitlock, Mark Eugene; Eaton, Daniel W; Pospisil, James A, 1 cr

4372 Brass
(max crs 12; 12 repeats allowed; A-F; prereq Non-music major or music major secondary instrument)
48851 001 STU; (Trumpet) (1/2 hr weekly lesson must be arranged with instructor in H 231); Belck, Scott Brian, 1 cr
51499 002 STU; (Trombone) (1/2 hr weekly lesson must be arranged with instructor in H 231); Whitlock, Mark Eugene, 1 cr
51501 003 STU; (French Horn) (1/2 hr weekly lesson must be arranged with instructor in H 231); Pospisil, James A, 1 cr
51503 004 STU; (Tuba/Euphonium) (1/2 hr weekly lesson must be arranged with instructor in H 231); Eaton, Daniel W; Pospisil, James A, 3 cr

4381 Percussion
(max crs 12; 12 repeats allowed; A-F; prereq Music major, dept consent)
48799 001 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1/2 hr arr lesson); Koshinski, Eugene J, 1 cr
49093 002 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1 hr arr lesson); Koshinski, Eugene J, 3 cr

4382 Percussion
(max crs 12; 12 repeats allowed; A-F; prereq Non-music major or music major secondary instrument)
48741 001 STU; (student to arrange 1/2 hr weekly lesson in 231 Humanities); Koshinski, Eugene J, 1 cr
4391 Classical Guitar
(max crs 12; 12 repeats allowed; A-F; prereq Music major, dept consent)
48753 001 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1/2 hr arr lesson); O’Hara, Thomas, 1 cr
49096 002 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1 hr arr lesson); O’Hara, Thomas, 3 cr

4392 Classical Guitar
(max crs 12; 12 repeats allowed; A-F; prereq Non-music major or music major secondary instrument)
48757 001 STU; (student must arrange 1/2 hr weekly lesson in 231 Humanities); O’Hara, Thomas, 1 cr
4395 Jazz Guitar
(max crs 12; 12 repeats allowed; A-F; prereq Music major, dept consent)
48761 001 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1/2 hr arr lesson); Barnard, William Michael, 1 cr
49097 002 STU; 01:00pm-01:50pm Th, Room TBA; (+ 1 hr arr lesson); Barnard, William Michael, 3 cr

4396 Jazz Guitar
(max crs 12; 12 repeats allowed; A-F; prereq Non-music major or music major secondary instrument)
48765 001 STU; (student must arrange 1/2 hr weekly lesson in 231 Humanities); Barnard, William Michael; O’Hara, Thomas; Cooper, James M, 1 cr

4501 Concert Band
(max crs 6; 6 repeats allowed; A-F only; prereq Instructor determined placement)
4502 Symphony Wind Ensemble
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4503 Symphony Orchestra
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4504 Chamber Orchestra
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4505 Jazz Ensemble
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4510 Concert Chorale
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4511 University Singers
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4512 Chamber Singers
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4513 Vocal Jazz Ensemble
(max crs 6; 6 repeats allowed; A-F; prereq Instructor determined placement)
4514 Chamber Music
(max crs 12; 24 repeats allowed; A-F only; prereq Music major, dept consent)
4515 Opera Studio
3100 Advanced Ojibwe Grammar and Narrative (A-F; prereq [Concurrent registration is required (or allowed) in 3101, 3102, 3103, 3104]. Admission to Ojibwe element middle school program, two years college-level Ojibwe or AMIN 2204 or inst consent) 91262 460 LEC; McInnes, Brian D, 4 cr 3200 Anishinaabe Art, Music and Dance (A-F only; prereq [Concurrent registration is required (or allowed) in 3200, 3201, 3203. Math 1141). Admission to Ojibwe element middle school program) 91268 460 LEC; Fairbanks, Priscilla A, 3 cr 3201 Holistic Instruction and Assessment (A-F; prereq [Concurrent registration is required (or allowed) in 3200, 3201, 3203. Math 1141). Admission to Ojibwe element middle school program) 91269 460 LEC; Fairbanks, Priscilla A, 3 cr 3202 Health, Wellness and Movement (A-F; prereq [Concurrent registration is required (or allowed) in 3200, 3201, 3203. Math 1141). Admission to Ojibwe element middle school program) 91270 460 LEC, 3 cr
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<td>Recombinant DNA-Derived Drugs</td>
<td>6158</td>
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<td>Directed Studies: Drug-related Controversies</td>
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<td>(A-F; prereq 1st yr pharmacy student)</td>
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<td>Pharmaceutical Calculations</td>
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<td>6200</td>
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<td>Non-prescription Drug Therapy: Focus on</td>
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<td>Patient Self-Care</td>
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<td>Geriatric Pharmacotherapy</td>
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<td>Variability in Drug Response</td>
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<td>Community Pharmacy Practice</td>
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<td>Pharmaceutical Care Skills</td>
<td>6172</td>
<td>(A-F; prereq 6112, 6152, 6162)</td>
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<tr>
<td>Pharmaceutical Care Services</td>
<td>6174</td>
<td>(A-F; prereq 6122)</td>
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<tr>
<td>Patient Assessment</td>
<td>6177</td>
<td>(A-F; prereq test yr pharmacy student)</td>
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<tr>
<td>Pharm.D. IV Seminar</td>
<td>6182</td>
<td>(S-N; prereq 4th yr pharmacy student, 6181)</td>
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<tr>
<td>Directed Studies: Drug-related Controversies</td>
<td>6200</td>
<td>in the U.S. Health Care System</td>
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<tr>
<td>Non-prescription Drug Therapy: Focus on</td>
<td>6211</td>
<td>Patient Self-Care</td>
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<tr>
<td>Building a Pharmaceutical Practice</td>
<td>6219</td>
<td>(A-F; prereq 6111, 6112)</td>
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<tr>
<td>Pediatric Drug Therapy</td>
<td>6220</td>
<td>(A-F; prereq 3rd or 4th yr pharmacy student)</td>
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<tr>
<td>Geriatric Pharmacotherapy</td>
<td>6221</td>
<td>(A-F; prereq 3rd or 4th yr pharmacy student)</td>
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<tr>
<td>Advanced Pharmaceutical Compounding</td>
<td>6222</td>
<td>(A-F; prereq 2nd or 3rd yr pharmacy student)</td>
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<tr>
<td>Pharmacogenomics: Genetic Basis for</td>
<td>6224</td>
<td>Variability in Drug Response</td>
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### PHILOSOPHY (Phil)

**College of Liberal Arts**

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<th>Course Code</th>
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<tr>
<td>1001</td>
<td>Introduction to Philosophy (may not be granted if credit has been received for: PHIL 1110; A-F only; prereq: )</td>
<td>meeting LE req of LE CAT7</td>
</tr>
<tr>
<td>1003</td>
<td>Ethics and Society (A-F only; prereq: leq of LE CAT8)</td>
<td>Wendinger, Patricia J, 1 cr</td>
</tr>
<tr>
<td>1007</td>
<td>Philosophy and World Religions (A-F only; meets LE req of LE CAT7)</td>
<td>McGinnis, Casey Neil, 3 cr</td>
</tr>
<tr>
<td>1088</td>
<td>Critical Thinking (A-F only; meets LE req of LE CAT7)</td>
<td>001 LEC, 01:00pm-01:50pm MWF, H314; (Open CE reserved seats will be available to UMD students on January 9, 2007.; 1 seat reserved for Continuing Education - EXPIRES 15-JAN-2008; Ford, Jason, 4 cr</td>
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<tr>
<td>1101</td>
<td>Honors: Introduction to Philosophy (Credit will not be granted if credit has been received for: PHIL 1001; A-F only; prereq: Honors student; meets HON req of Honors; meets LE req of LE CAT7)</td>
<td>001 LEC, 01:00pm-01:50pm MWF, ABAY 225; McGinnis, Casey Neil, 3 cr</td>
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<tr>
<td>1104</td>
<td>Values and Technology (A-F only; prereq:leq or instructor consent; meets LE req of LE CAT7)</td>
<td>001 LEC, 11:00am-11:50am MWF, ABAY 225; Newman, Mark, 3 cr</td>
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<td>3303</td>
<td>The Birth of Modern Philosophy (A-F only; prereq: 3 cr, course in phil, hist, pol sci or lit or instructor consent)</td>
<td>001 LEC, 02:00pm-02:50pm MWF, ABAY 225; Newman, Mark, 3 cr</td>
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<tr>
<td>3305</td>
<td>19th- and 20th-Century Philosophy (A-F only; prereq:303 or instructor consent)</td>
<td>001 LEC, 11:00am-11:50am MWF, ABAY 225; Newman, Mark, 3 cr</td>
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<tr>
<td>3570</td>
<td>Philosophy of Psychology (A-F only; prereq:1001 or Psy 1003, 60 cr or instr consent)</td>
<td>001 LEC, 10:00am-11:50am TTh, ABAY 1235; Cole, David J, 4 cr</td>
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<tr>
<td>3900</td>
<td>Colloquium for Majors (S-N only; prereq:Phil major/minor, department consent; attendance at 12 dept-approved lectures/discussions over 4-yr period; regis only during semester of 10th lec)</td>
<td>001 COLL.; 1 cr</td>
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<tr>
<td>5245</td>
<td>Aesthetics (A-F only; prereq: 60 cr)</td>
<td>001 LEC, 02:00pm-03:50pm MWF, SPHC 212; Walsh, Sean P, 3 cr</td>
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<tr>
<td>5991</td>
<td>Independent Study (max crs 10; 10 repeats allowed; A-F only; prereq instr consent; cannot be used to satisfy requirements for phil major or minor)</td>
<td>001 IND.; 1-3 cr</td>
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<tr>
<td>5997</td>
<td>Intern Teaching Assistantship (max crs 4; A-F only; prereq Instructor consent)</td>
<td>001 IEX, 2 cr</td>
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### PHYSICAL EDUCATION (PE)

**College of Education & Human Service Professions**

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<th>Course Code</th>
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<tr>
<td>1220</td>
<td>Intermediate Swimming (meets LE req of PE)</td>
<td>001 PHY, 09:00am-09:50am MW, SPHC 260; Batinich, Greg Anthony, 1 cr</td>
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<tr>
<td>1300</td>
<td>Ballroom Dance (meets LE req of PE)</td>
<td>001 PHY, 06:00pm-07:40pm M, SPHC 135; (Open CE reserved seats will be available to UMD students on January 15, 2008.; 6 seats reserved for Continuing Education - EXPIRES 15-JAN-2008; Carlson, Cynthia C, 1 cr</td>
</tr>
<tr>
<td>1304</td>
<td>Square Dance (meets LE req of PE)</td>
<td>001 PHY, 09:00am-09:50am TTh, SPHC 150; Batinich, Greg Anthony, 1 cr</td>
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<tr>
<td>1414</td>
<td>Bowling (meets LE req of PE)</td>
<td>001 PHY, 11:00am-11:50am MWF, SPHC 260; Batinich, Greg Anthony, 1 cr</td>
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<tr>
<td>1500</td>
<td>Cross-Country Skiing (meets LE req of PE)</td>
<td>001 PHY, 09:00am-09:50am TTh, SPHC 90; Beery, Thomas Harold, 1 cr</td>
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<tr>
<td>1502</td>
<td>Alpine Skiing (A-F only; meets LE req of PE)</td>
<td>001 PHY, 09:00am-09:50am TTh, SPHC 260; Batinich, Greg Anthony, 1 cr</td>
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<tr>
<td>1507</td>
<td>Introduction to River Kayaking (meets LE req of PE)</td>
<td>001 PHY, 02:00pm-03:40pm T, SPHC 260; Carlson, Randall Scott, 1 cr</td>
</tr>
<tr>
<td>1510</td>
<td>Whitewater Kayaking (prereq 1507 or instructor consent; meets LE req of PE)</td>
<td>001 PHY, 11:00am-05:00pm Th, Room TBA, 03/24/08; Special Term Dates: 3/27/08-5/8/08; Please see instructor for permission into this course. Class will meet at the pool (SPHC 20) and from there travel to local rivers.; Carlson, Randall Scott, 2 cr</td>
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<tr>
<td>1530</td>
<td>Rock Climbing (meets LE req of PE)</td>
<td>001 PHY, 02:00pm-06:00pm Th, SPHC 260; Special Term Dates: 3/25/08-5/8/08; Webster, Kaia Marie, 1 cr</td>
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<tr>
<td>1531</td>
<td>Intermediate Rock Climbing (prereq 1530 or instr consent)</td>
<td>001 PHY, 02:00pm-06:00pm Th, SPHC 260; Special Term Dates: 3/27/08-5/8/08; Webster, Kaia Marie, 1 cr</td>
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### PHYSICAL EDUCATION PROFESSIONAL (PEP)

**College of Education & Human Service Professions**

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>1001</td>
<td>Introduction to Physical Education (A-F only; prereq Pre-PE major or instr consent)</td>
<td>001 LEC, 01:00pm-01:50pm MW, SPHC 208; Pleissner, Elizabeth A, 2 cr</td>
</tr>
<tr>
<td>1020</td>
<td>Teaching Rhythms (A-F only; prereq PE or rec major or instr consent; Credit will not be granted if credit has been received for: 1000)</td>
<td>001 LEC, 01:00pm-02:15pm TTh, SPHC 135; Carlson, Jane A K, 1 cr</td>
</tr>
</tbody>
</table>
5992 Directed Readings
(max crs 6; 6 repeats allowed; A-F only; prereq Quick enroll or grad student or instructor consent)

48909 001 DRD; Nierengarten, Mark Edward, 1-3 cr

1001 Introduction to Physics I
(A-F only; prereq Algebra; trig; meets LE req of LE CAT4)

001 LEC, 08:00am-08:50am MTW, MWAH 195; Meets with: 50498 PHYS 1002; De, Subhranil, 3 cr

1002 Introduction to Physics II
(A-F only; prereq 1001)

001 LEC, 08:00am-08:50am MTW, MWAH 195; Meets with: 49498 PHYS 1002; De, Subhranil, 3 cr

2001 General Physics I
(A-F only; prereq Math 1292 or Math 1296 or Math 1596; concurrent registration is required in 2011)

001 LEC, 09:00am-10:05am MWThF, MWAH 195; Meets with: 50471 PHYS 2011; De, Subhranil, 4 cr

2011 General Physics I
(A-F only; prereq Math 1292 or Math 1296 or Math 1596; Credit will not be granted if credit has been received for: 1201 or 1204)

001 LEC, 02:00pm-02:50pm MWTThF, MWAH 195; (For students repeating the course who have satisfactorily completed the lab); Meets with: 50453 PHYS 2011; De, Subhranil, 4 cr

2012 General Physics II
(A-F only; prereq 2011, Math 1297 or Math 1597; Credit will not be granted if credit has been received for: 1202 or 1204)

001 LEC, 10:00am-12:00pm MWTThF, MWAH 195; Meets with: 50487 PHYS 2012; Johnson, Darrin Eric, 4 cr

2021 Relativity and Quantum Physics
(A-F only; prereq Math 2021 or Math 2024 or 2025)

47533 001 LEC, 02:00pm-02:50pm MWTThF, MWAH 279; Gran, Richard William, 4 cr

2111 Solving Physics Problems I
(S-N only; prereq Math 1296 or Math 1596; concurrent registration is required in 2011)

50493 001 DIS, 04:00pm-04:50pm M, MWAH 195; Austin, Jay A, 1 cr

2112 Solving Physics Problems II
(S-N only; prereq Math 1297 or Math 1597; concurrent registration is required in 2012)

50495 001 DIS, 04:00pm-04:50pm M, MWAH 195; Austin, Jay A, 1 cr

2199 Physics Tutoring
(max crs 4; 4 repeats allowed; S-N only; prereq 2012 or dept consent)

47581 001 IND; Maps, Jonathan, 1-2 cr

3091 Independent Study
(max crs 6; 6 repeats allowed; A-F only; prereq Department consent)

47577 001 IND; , 1-3 cr

3094 Physics Research
(max crs 6; 6 repeats allowed; S-N only; prereq dept consent)

47579 001 DRS, 1-6 cr

4011 Electromagnetic Theory
(A-F only; prereq 2022 or 1203 or 1205, Math 3260)

51781 001 LEC, 09:00am-09:50am MWTThF, MWAH 191; Gran, Richard William, 4 cr

5043 Environmental Optics
(A-F only; prereq 2012 or course containing elementary optics)

001 LEC, 01:00pm-01:50pm MW, Chem 153; Sydor, Michael, 4 cr

54975 002LAB, 12:00pm-01:00pm F, Room TBA; Sydor, Michael, 3 cr

5531 Introduction to Solid State Physics
(A-F only; prereq 4021, 4031)

51787 001 LEC, 03:00pm-03:50pm MW, MWAH 279; Maps, Jonathan, 3 cr
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<th>Course Code</th>
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| 3197        | Nongovernmental Internship                       | goo
3061 Physiological Psychology
(A-F only; prereq 3 cr Psy or inst consent)
1001 LEC, 12:00pm-12:50pm MWF, BohH 108; 25 seats reserved for Psy major or pre-psy; Taylor, John Powell, 4 cr

3081 History and Systems of Psychology
(A-F only; prereq 3 cr Psy)
2001 LEC, 08:00am-09:50am MWF, BohH 112; 25 seats reserved for Psy major or pre-psy; Gordon, Randall A, 4 cr
2002 LEC, 09:00am-10:50am T, Cina 22; Tseng, Karen Linda, 4 cr

3122 Child and Adolescent Abnormal Psychology
(A-F; prereq 1003, 2001)
4003 LEC, 10:00am-11:50am MWF, BohH 108; 25 seats reserved for Psy major or pre-psy; Woolum, Sandra J, 3 cr

3201 Social Psychology
(A-F only; prereq 3 cr Psy)
1001 LEC, 08:00am-09:50am TTh, BohH 112; 25 seats reserved for Psy major or pre-psy; Woolum, Sandra J, 3 cr

3454 Transpersonal Psychology
(A-F only; prereq 1003 or inst consent)
50201 LEC, 01:00pm-02:50pm Th, ABAH 225; 35 seats reserved for Psy major or pre-psy; Maddy, Jane Ellen, 4 cr

3524 Basic Helping Skills
(A-F only)
40001 LEC, 01:00pm-02:50pm TTh, BohH 108; 23 seats reserved for Psy major or pre-psy; Woolum, Sandra J, 3 cr
null
4977  Recreation Practicum  (S-N; prereq 1000, rec minor; no Grad School credit)
48873  001 PRC; Beery, Thomas Harold, 3 cr

RUSSIAN (Russ)  
College of Liberal Arts
1102  Beginning Russian II  (A-F only; prereq 1101 or equiv or instructor consent; meets LEQF req of LEIP CAT3)
47493  090 LEC; 06:00am-07:50am MTh, H464; (Open CE reserved seats will be available to UMD students on January 15, 2008; 6 seats reserved for Continuing Education - EXPRES5 15-JAN-2008; Morgan, Thomas W, 4 cr

SAFETY (SAFE)  
College of Science & Engineering
6012  Risk Management and Workers' Compensation  (A-F only; prereq MEHS student or B.S.E. candidate and 7, or B.S.M.E. candidate and 7, or instr consent)
48799  001 LEC, 10:00am-10:50am TTh, Engr 290; Schedule in Engr 290, VKH 201; Louisine, Todd William, 2 cr

6015  Construction Safety  (A-F only; prereq MEHS student or BSIE candidate and 7, or B.S.E. candidate and dept or instr consent)
48815  001 LEC, 08:15am-09:30am TTh, VKH201; Burski, Harvey E, 3 cr

6102  Advanced Industrial Hygiene and Health Physics  (A-F only; prereq 6101 or department consent; can apply credit to MEHS program only)
48819  001 LEC, 08:00am-09:50am M, VKH 201; (+ lab arr), 2 cr

6201  Fire Prevention and Emergency Preparedness  (A-F only; prereq MEHS student or department consent; can apply credit to MEHS program only)
48817  001 LEC, 01:00pm-01:50pm TTh, VKH221; Abou, Seraphin Challly, 2 cr

6211  Transportation Safety  (A-F only; prereq MEHS student or B.S.E. candidate and 7, or B.S.M.E. candidate and 7, or instr consent)
51755  001 LEC, 02:00pm-03:50pm W, VKH 201; Staubes, James M, 2 cr

6291  Independent Study in Industrial Safety  (max crs 3; S-N only; prereq MEHS student or department consent; can apply credit to MEHS program only)
48823  001 IND, -1 -3 cr

6302  Occupational Ergonomics and Injury Management  (A-F only; prereq MEHS student or department consent; can apply credit to MEHS program only)
48803  001 LEC, 10:00am-10:50am MWF, Engr 290; (+ lab arr) VKH 201,207; Feyen, Robert G, 3 cr

6821  Organization and Administration of Safety Programs  (A-F only; prereq MEHS student or department consent; can apply credit to MEHS program only)
48811  001 LEC, 04:00pm-05:50pm W, VKH221; Louisine, Todd William, 2 cr

SOCIAL WORK (SW)  
College of Education & Human Service Professions
1210  Global Issues  (Credit will not be granted if credit has been received for: SW 1211, SW 1212; A-F only; prereq honors student; meets HCH req of Honors; meets LEQF req of LEIP CAT08)
52007  001 SEM, 09:00am-10:50am T, Bohl 343; Falk, Dennis R, 3 cr

5032  Child Welfare and the Law  (A-F; prereq Jr or sr or grad student or instr consent)
52009  001 LEC, 09:00am-01:00pm MTWTh, Chem 153, 01/07/08-01/18/08; Garrison, Johanna Mary, 2 cr

5061  Computers in the Human Services  (max crs 2; prereq Jr or sr or grad student or instr consent)
53249  001 LAB, 02:00pm-03:50pm T, SSB 216; Heitler, Kathleen Victoria, 1-2 cr

5091  Independent Study  (max crs 8; 8 repeats allowed; prereq instr consent)
47743  001 DST; Day, Priscilla A, 1-4 cr
50143  002 DST; Falk, Dennis R, 1-4 cr
51157  003 DST; Pinkston, Arron J, 1-4 cr
52013  005 DST; Tittel, Anne Elizabeth, 1-4 cr
51155  006 DST; Raschick, R Michael, 1-4 cr
50859  007 DST; Shepard, Melanie F, 1-4 cr
52015  008 DST; Haynes, Janet May, 1-4 cr

5096  Special Project  (max crs 8; 8 repeats allowed; S-N only; prereq Instructor consent)
47743  001 FWK; Day, Priscilla A, 1-4 cr
50143  002 FWK; Falk, Dennis R, 1-4 cr
51157  003 FWK; Pinkston, Arron J, 1-4 cr
52013  005 FWK; Tittel, Anne Elizabeth, 1-4 cr
47999  005 FWK; Raschick, R Michael, 1-4 cr
51159  006 FWK; Shepard, Melanie F, 1-4 cr
52761  007 FWK; Tittel, Anne Elizabeth, 1-4 cr
52673  008 FWK; Haynes, Janet May, 1-4 cr
52675  009 FWK; Tittel, Anne Elizabeth, 1-4 cr

5235  American Indians and Social Policy  (A-F; prereq 5201 or advanced standing MSW program or instr consent)
52019  001 LEC, 12:00pm-01:50pm T, Bohl 343; Day, Priscilla A, 2 cr

8031  Advanced Practice in Child Welfare  (max crs 5; A-F; prereq 5032, 8441)
47747  001 LEC, 06:00pm-08:50pm T, Bohl 112; Snyder, Mark Joseph, 2-3 cr

8100  Social Work with Diverse Populations  (A-F; prereq 5201 or advanced standing MSW program or instr consent)
52001  001 LEC; 02:00pm-04:50pm Th, Bohl 343; Heitler, Kathleen Victoria, 3 cr
53369  002 LEC; 02:00pm-04:50pm Th, Chem 153; Haynes, Janet May, 2 cr

8110  Introduction to Research  (A-F; prereq SW grad student or instr consent)
47713  001 LEC; 02:00pm-03:50pm T, Bohl 343; Garrison, Johanna Mary, 2 cr; A-F only

8104  Project Seminar II (S-N; prereq 8103)
47729  001 SEM; Falk, Dennis R, 1 cr
49445  002 SEM; Zmudy, Mark Howard, 2 cr

8112  Organization and Community Practice I  (A-F; prereq 8111)
47713  001 LEC; 04:30pm-07:20pm T, Bohl 343; Shepard, Melanie F, 3 cr

8332  Advanced Practice in Administration and Community Development  (max crs 3; A-F; prereq 8531)
53373  001 LEC; 06:00pm-08:50pm Th, Chem 153; Tittel, Anne Elizabeth, 2-3 cr

8333  LTE: Master's  (NGA; prereq Master's student, adviser and DGS consent)
50145  001 DRS, 1 cr
SPANISH (Sp)  
College of Liberal Arts  
1102 Beginning Spanish II  
(A-F only; prereq 1-2 yrs high school Sp or 1101 or instr consent; meets LEq req of LEq CAT3)  
47333 001 LEC, 08:00am-08:50am MWF, MTTHF, H 490;  
Hellie, Irene Edith, 4 cr  
47339 002 LEC, 09:00am-09:50am MTTHF, H 490;  
Hellie, Irene Edith, 4 cr  
47431 003 LEC, 10:00am-10:50am MTTHF, H 490;  
Hellie, Irene Edith, 4 cr  
50717 004 LEC, 02:00pm-02:50pm MTTHF, H 490;  
Snustad, Andrew P, 4 cr  
2540 Latino Literatures and Cultures  
(A-F only; meets LEq req of LEq CAT08)  
54751 001 LEC, 09:00am-09:50am MWF, H 464;  
Zeitz, Eileen M, 3 cr  
3042 Hispanic American Civilization and Culture  
(A-F only; prereq 201 with C or better or instr consent; offered alt yrs)  
54752 001 LEC, 10:00am-10:50am MTTHF, H 490;  
Zeitz, Eileen M, 4 cr  
3044 Spanish Civilization and Culture  
(A-F only; prereq 201 with C or better or instr consent; offered alt yrs)  
50397 001 LEC, 11:00am-11:50am MTTHF, H 490;  
Tobin Stanley, Maureen, 4 cr  
4025 Cervantes  
(A-F only; prereq 2301 with C or better or instr consent; no Grad School credit; offered every third yr)  
47503 001 LEC, 08:00am-09:50am MW, H 490;  
Seybold, Richard A, 4 cr  
4029 Contemporary Spanish Literature and Culture  
(A-F only; prereq 2301 with C or better or instr consent; no Grad School credit)  
54749 001 LEC, 08:00am-09:50am TTh, H 490;  
Tobin Stanley, Maureen, 4 cr  
4991 Independent Study  
(max crs 8; 6 repeats allowed; A-F only; prereq 2301 with C or better or instr consent; no Grad School credit)  
54790 001 IND, 1-4 cr  
SPECIAL EDUCATION (SpEd)  
College of Education & Human Service Professions  
1357 Individuals with Disabilities in Society  
(A-F only; meets LEq req of LEq CAT08)  
48783 001 LEC, 02:00pm-03:15pm TTh, MonH203;  
Hughes, Trudie Ann, 3 cr  
3103 Infants and Toddlers with Special Needs  
(Credit will not be granted if credit has been received for: SPED 5103; A-F only; prereq UEdCh major or instr consent)  
53299 001 LEC, 01:00pm-03:50pm M, HolH 112;  
Marchel, Mary A, 4 cr  
3310 Introduction to Special Education for  
Elementary Education  
(A-F only; prereq EdEd Major)  
50803 001 LEC, 01:00pm-01:50pm TTh, MonH 108;  
Nierengarten EdEd, Gerry, 1 cr  
4204 Assessment for Children and Youth with  
Disability (A-F only; prereq EdEd major or instr consent; Credit will not be granted if credit has been received for: SPED 5204; A-F only; prereq 45 cr, postbac undergrad or sped minor, no Grad School cr)  
52581 001 LEC, 05:00pm-07:40pm Th, MonH121;  
Meets with: 52583 SPED 5204; Kiefer-O'Donnell, Richard, 4 cr  
4270 Methods for Teaching Children and Youth  
with Autism Spectrum Disorders  
(Credit will not be granted if credit has been received for: SPED 5270; A-F only; prereq 4250 or 5250 or instr consent, no Grad School cr)  
91011 745 LEC; (Offered concurrently with SPED 4270); Meets with: 745 LEC; Ferguson, Peg, 4 cr  
4310 Adapting for Diverse Learners in General  
Education Settings  
(A-F only; prereq EdEd or EdSe major or instr consent; Credit will not be granted if credit has been received for: 5310)  
50445 001 LEC, 10:00am-11:50am Th, MonH 208;  
Nierengarten EdEd, Gerry, 4 cr  
4433 Foundations in Special Education  
(Credit will not be granted if credit has been received for: SPED 5433; A-F only; prereq 45 cr or 5433 or postbac grad or instr consent)  
90450 200 INI; (Online INI - Students must complete all course requirements, regardless of start date, by 05/09/08. No exceptions. Initial course information is available at http://www.d.umn.edu/goto/ini. Click on “Getting Started After Registration” to begin. Open CE reserved seats will be available to UMD students on January 15, 2008.) 2 seats reserved for Continuing Education - EXPRIES 15-JAN-2008; Nierengarten EdEd, Gerry, 4 cr  
5433 Foundations in Special Education  
(A-F only; meets LEq req of LEq CAT08)  
52597 001 LEC, 05:00pm-07:50pm Th, MonH203;  
Meets with: 52595 SPED 4435; Hughes, Trudie Ann, 3 cr  
5600 Student Teaching  
(max crs 12; 6 repeats allowed; A-F only; prereq Instructor consent; no Grad School credit)  
48979 001 PRC, 1-12 cr  
5991 Independent Study  
(max crs 6; 6 repeats allowed; A-F only; prereq Instructor consent)  
49315 001 IND, 1-6 cr  
STATISTICS (Stat)  
College of Science & Engineering  
1411 Introduction to Statistics  
(A-F only; prereq A grade of at least C- in Math 1005 or math placement or dept consent; meets LE req of LEq CAT2)  
48295 001 LEC, 10:00am-10:50am MW, Chem 155;  
3 cr  
2411 Statistical Methods  
(A-F only; prereq Math 1250 or 1160; meets LE req of LEq CAT2)  
48297 001 LEC, 10:00am-10:50am Chem 155;  
3 cr  
19071 002 LEC, 12:00pm-12:50pm MW, Chem 155, 3 cr  
3411 Engineering Statistics  
(A-F only; prereq 1297, cannot be applied to a math or statistics major)  
52253 001 LEC, 10:00am-10:50am M, H 468;  
10:00am-10:50am W, H 490; 10:00am- 
10:50am F, Cina 308; 3 cr  
89394 002 LEC, 11:00am-11:50am MW, HH 216;  
3 cr  
3611 Introduction to Probability and  
Statistics  
(A-F only; prereq A grade of at least C- in Math 1290 or Math 1260)  
48201 001 LEC, 09:00am-09:50am MTWF, ABAH;  
235; 4 cr
1000 Introduction to College Learning
(Prereq: A-F only)
47909 001 LEC, 11:00am-11:50am MW, SCC 211, 01/22/08-03/14/08; Reiser, Shirley A, 1 cr
47911 002 LEC, 08:00am-08:50am W, SCC 211; Flagg, Robert Locke, 1 cr
51689 003 LEC, 10:00am-10:50am F, SCC 211; 1 cr

1052 College Writing Strategies
(Practicum arranged; Instructor consent required; max crs 6; 3 repeats allowed; A-F only; prereq 1001 or 1801 or instr consent)
50099 001 LEC, 10:00am-10:50am MW, SCC 211; Reiser, Shirley A, 2 cr

1054 College Study Strategies
(Practicum arranged; Instructor consent required; max crs 6; 3 repeats allowed; A-F only; prereq 1801 or instr consent)
50099 001 LEC, 09:00am-09:50am MF, SCC 211, 01/22/08-03/14/08; Flagg, Robert Locke, 2 cr
48023 002 DIS, 09:00am-09:50am W, SCC 211, 01/22/08-03/14/08; Flagg, Robert Locke, 1 cr
48025 003 DIS, 09:00am-09:50am W, SCC 6, 01/22/08-03/14/08; Flagg, Robert Locke, 2 cr
48027 004 DIS, 09:00am-09:50am W, H480, 01/22/08-03/14/08; Flagg, Robert Locke, 1 cr

1101 Personal Development
(A-F only)
47913 001 LEC, 11:00am-11:50am T, BohH108; Flagg, Robert Locke
50403 002 DIS, 11:00am-11:50am Th, SCC 6; Flagg, Robert Locke
50405 003 DIS, 11:00am-11:50am Th, Cina 106; Flagg, Robert Locke, 2 cr
50407 004 DIS, 11:00am-11:50am Th, Cina 106; Flagg, Robert Locke, 2 cr
50409 005 DIS, 11:00am-11:50am Th, H468; Flagg, Robert Locke, 2 cr

3001 Preparation for SSP Teaching Assistantship
(Practicum arranged; Instructor consent required; max crs 3; S-N only; prereq 1801 or instr consent)
47913 001 LEC, 09:00am-09:50am TTH, SCC 211; Flagg, Robert Locke
49447 002 LEC, 01:00pm-01:50pm TTh, BohH108, 01/22/08-03/14/08; (Special term: 01/16/2007-03/09/2007 (CLT training)), Ellen, Jeni, 1 cr

1299 Theatre Management/Management Practicum
(max crs 6; 3 repeats allowed; A-F only; prereq Th major or minor) 51231 001 LAB, Morgan, Sherise Alison, 2 cr

1301 Stagecraft
(A-F only; prereq 1801 or instr consent)
50985 002 LAB, 10:00am-11:00am MWF, MPAF 130; Engler, Mark Leo, 5 cr
50987 003 LAB, 01:00pm-02:50pm MWF, MPAF 130; Engler, Mark Leo, 5 cr
50989 004 LAB, 03:00pm-04:50pm MWF, MPAF 130; Engler, Mark Leo, 5 cr
50993 006 LAB, 02:00pm-04:50pm MWF, MPAF 130; Engler, Mark Leo, 5 cr

1399 Scenery and Properties Practicum
(max crs 6; 3 repeats allowed; A-F only; prereq Th major or minor) 51233 001 LAB, Phillips, Curtis J, 2 cr

1401 Costume Construction I
(A-F only; prereq 1801 or instr consent)
50995 002 LAB, 10:00am-11:00am MWF, MPAF 30; Piotrowski, Laura Kay
50997 003 LAB, 10:00pm-12:50pm MWF, MPAF 30; Piotrowski, Laura Kay, 5 cr
50999 004 LAB, 03:00pm-04:50pm MWF, MPAF 30; Piotrowski, Laura Kay, 5 cr
51001 005 LAB, 10:00am-12:50pm MWF, MPAF 30; Piotrowski, Laura Kay, 5 cr

1499 Costume Practicum
(max crs 6; 3 repeats allowed; A-F only; prereq Th major or minor) 51259 001 LAB, Dennis, Patricia, 2 cr

1501 Stage Lighting I
(A-F only; prereq 1001 or 1801 or instr consent)
51277 001 LEC, 01:30pm-02:40pm MWF, MPAF 51; Harvey, Mark A, 3 cr
51891 002 PRC, 01:00pm-02:50pm MWF, MPAF 125; Harvey, Mark A, 4 cr
51893 003 PRC, 11:00am-1:50pm MWF, MPAF 125; Harvey, Mark A, 4 cr
51895 004 PRC, 02:00pm-04:50pm MWF, MPAF 125; Harvey, Mark A, 4 cr

1551 Sound Design
(A-F only; prereq 1801 or instr consent)
51257 001 LAB, Harvey, Mark A, 2 cr

1699 Running Crew Practicum
(max crs 6; 3 repeats allowed; A-F only; prereq Instructor consent) 51257 001 LAB, Harvey, Mark A; Dennis, Patricia; Phillips, Curtis J, 2 cr

2113 Acting II: Classical Styles
(A-F only; prereq 2112 or instructor consent)
48345 001 STU, 10:00am-11:15am MWF, MPAF 49; Isbell, Tom K, 3 cr

2114 Acting: Musical Theatre
(A-F only; prereq Instructor consent)
48373 001 STU, 03:00pm-04:15pm MWF, MPAF 21; Ufema, Kate, 3 cr

2199 Lighting/Sound Practicum
(max crs 3; 3 repeats allowed; A-F only; prereq Th major or minor) 51235 001 LAB, Harvey, Mark A, 1 cr

2851 Film History
(A-F; prereq soph or instr consent)
51953 001 LAB, 04:00pm-05:50pm TTh, ABH225; Stanford, Mark, 3 cr

3099 Theatre Practicum II
(max crs 12; 3 repeats allowed; A-F only)
51241 001 LAB; Harvey, Mark A; Katz Harwood, Rebecca; Isbell, Tom K; Payne, William Eugene, 2 cr
5991 Independent Study in Theatre
5491 001 STU, 12:00pm-01:50pm TTh, MPAC 21; Henderson, Kelly A, 3 cr

3171 Acting IV: Character/Masks
5991 (A-F only; prereq 1111 or 1112 or instr consent; not open to BFA in majors)
52803 001 DRS, 01:00pm-04:15pm W, Library 410; Payne, William Eugene, 3 cr

3331 Scenic Design I
(A-F only; prereq 1301 or instr consent)
48099 001 IEX; Dennis, Patricia, 1-2 cr

3351 Theatrical Drafting
54978 001 LEC, 12:00pm-01:15pm MWF, MPAC 51; Phillips, Curtis J, 3 cr

3441 Costume Design I
(A-F only; prereq 1401, 1801 or instr consent)
48077 001 LEC, 10:00am-11:50am TTh, MPAC 51; Dennis, Patricia, 3 cr

3699 Production Management
(max crs 6; 6 repeats allowed; A-F only; prereq Instructor consent)
51247 001 LAB; Harvey, Mark A; Dennis, Patricia; Phillips, Curtis J, 2 cr

3851 Screenwriting
(max crs 3; 3 repeats allowed; A-F only; prereq Instructor consent)
53507 001 LEC, 02:00pm-03:15pm TTh, KPlz 395; Stanfield, Mark, 3 cr

3871 Playwriting
(max crs 6; 6 repeats allowed; A-F only; meets LEQ of LE CAT9)
51925 001 LEC, 09:00am-09:50am MW, Chem 153; Berry, Jon Michael, 3 cr

3991 Independent Study in Theatre
(max crs 6; 6 repeats allowed; A-F only; prereq Instructor consent)
48243 001 IND; Dennis, Patricia, 1-3 cr

4171 Acting VI: Acting for the Camera
(A-F only; prereq 4151 or instr consent; no Grad School credit)
51417 001 STU, 12:00pm-01:50pm TTh, MPAC 49; Isbell, Tom K, 3 cr

4399 Theatre: Special Projects
(max crs 12; 12 repeats allowed; A-F only; prereq Instructor consent)
48261 001 DIS; Harvey, Mark A; Phillips, Curtis J; Dennis, Patricia, 1-2 cr

4441 Costume Design II
(A-F only; prereq 3441 or instr consent)
54981 001 LEC, 02:00pm-03:50pm TTh, MPAC 51; Dennis, Patricia, 3 cr

4501 Stage Lighting II
(A-F only; prereq 1501 or instr consent; no Grad School credit)
54980 001 LEC, 03:00pm-04:15pm MW, MPAC 51; Harvey, Mark A, 3 cr

4802 History of the Theatre II
(A-F only; prereq 4801 or instr consent)
48263 001 LEC, 10:00am-10:50am MW, KPlz 395; Berry, Jon Michael, 3 cr

4851 Dramatic and Performance Theory
(A-F only; prereq 3807 or instr consent)
48209 001 LEC, 02:00pm-02:50pm MW, KPlz 312; Dennis, Patricia, 3 cr

4901 Intern Teaching in Theatre
(max crs 6; 6 repeats allowed; A-F only; prereq Instructor consent; no Grad School credit)
48201 001 DIS; Payne, William Eugene; Isbell, Tom K; Ufema, Kate; Dennis, Patricia; Harvey, Mark A, 3 cr

5991 Independent Study in Theatre
(max crs 6; 6 repeats allowed; A-F only; prereq Sr, department consent; undergrads max 6 cr in 3991 and 5991 combined; no Grad School credit)
48293 001 IND; Dennis, Patricia, 1-3 cr

5997 Internship in Professional Theatre
(max crs 12; 12 repeats allowed; S-N Only; prereq Department consent; 1 cr for each 45 hrs work; no Grad School credit)
48299 001 IEX; Dennis, Patricia, 1-12 cr

TOXICOLOGY (Txcl)

5000 Directed Research in Toxicology
(max crs 16; 16 repeats allowed; S-N Only; prereq instr consent)
52141 001 LAB, 1-4 cr

5545 Introduction to Regulatory Medicine
(A-F only; prereq Grad School student or instr consent)
52139 001 ROT, 06:00pm-08:00pm MTWhF, Library 410, 2 cr

8012 Advanced Toxicology I
(A-F only; prereq 5011, Chem 4341 or instr consent)
52143 001 LEC, 3 cr

8100 Investigative Toxicology
(max crs 2; A-F only; prereq 8013 or instructor consent)
52283 001 SEM, 1 cr

8333 FTE: Master’s
(NGA; prereq Masters student, adviser and DGS consent)
47323 001 DRS, 1 cr

8666 Doctoral Pre-Thesis Credits
(max crs 12; NGA; prereq Max 6 cr per semester or summer; doctoral student who has not passed prelim 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 total 60 cr))
49699 001 THE, 1-6 cr

8777 Thesis Credits: Master’s
(max crs 50; 10 repeats allowed; NGA; prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only))
49735 001 THE, 1-18 cr

8888 Thesis Credits: Doctoral
(max crs 100; 10 repeats allowed; NGA; prereq Max 18 cr per semester or summer; 24 cr required)
49757 001 THE, 1-24 cr

WOMEN’S STUDIES (WS)

College of Liberal Arts

1000 Introduction to Women’s Studies
(A-F only; meets LEQ of LEQ CAT07)
51143 001 LEC, 12:00pm-01:15pm TTh, MonH 203; Plechner, Deborah Marie, 3 cr

98990 002 LEC, 10:00am-10:50am MW, KPlz 312; Varney, Joan Dee, 3 cr

50169 090 LEC, 06:00pm-09:00pm Th, ABAH 225; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 7 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Ritmeester, Tineke, 3 cr

2101 Women, Race, and Class
(A-F only; meets LEQ of LEQ CAT08)
48939 001 LEC, 09:30am-10:40am TTh, KPlz 312; Kamau, Margaret Njoki, 3 cr

51199 090 LEC, 06:00pm-09:00pm W, H 468; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 5 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Kamau, Margaret Njoki, 3 cr

3000 Transnational Perspectives on Feminism
(A-F only; prereq 1000 or 2101 or instr consent)
54976 001 LEC, 11:00am-12:15pm TTh, H 440; Ritmeester, Tineke, 3 cr

3032 Latin American Women: Culture and Politics
(A-F only; prereq 1000 or 2101 or instr consent)
50287 090 LEC, 06:00pm-08:40pm T, SPhC 207; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 7 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Woodward, Susana Pelayo, 3 cr

3150 Women-Identified Culture
(A-F only)
50171 001 LEC, 03:00pm-05:50pm T, H 440; Ritmeester, Tineke, 3 cr

3350 Women and the Law
(A-F only; prereq 1000 or 2101 or instr consent)
52451 090 LEC, 06:00pm-08:40pm M, H 468; (Open CE reserved seats will be available to UMD students on January 15, 2008.); 5 seats reserved for Continuing Education - EXPRES 15-JAN-2008; Plechner, Deborah Marie, 3 cr

3450 Motherhood and Mothering: Intuition and Experience
(A-F; prereq 1000 or 2101 or instr consent)
98999 001 LEC, 09:30am-10:45am TTh, KPlz 312; Varney, Elizabeth Ann, 3 cr

3595 Special Topics: (Various Titles to be Assigned)
(max crs 9; 9 repeats allowed; A-F Only; prereq 1000 or instr consent)
90932 001 LEC, 03:00pm-06:50pm Th, H 480, 1-4 cr
<table>
<thead>
<tr>
<th>CRN</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Notes</th>
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<tbody>
<tr>
<td>89586</td>
<td>3600 Ecofeminist Theories and Practices (A-F only; prereq 1000 or instr consent)</td>
<td>4</td>
<td>Th</td>
<td>06:00pm-09:50pm</td>
<td>BohH 104</td>
<td>Varney, Joan Dee</td>
<td>8 seats reserved for Continuing Education; EXPIRES 15-JAN-2008; UMD students on January 15, 2008; 1-4 cr</td>
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<tr>
<td>54977</td>
<td>3891 Independent Study (max crs 6; A-F only; prereq 1000, 3100, 15 cr WS or WS-related courses, instr consent)</td>
<td>3</td>
<td>W</td>
<td>03:00pm-05:50pm</td>
<td>W H 480</td>
<td>Bartlett, Elizabeth Ann</td>
<td>3 cr</td>
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<tr>
<td>54977</td>
<td>3896 International Fieldwork in Women’s Studies (max crs 6; A-F only; prereq 1000, instr consent)</td>
<td>3</td>
<td>W</td>
<td>03:00pm-05:50pm</td>
<td>W H 480</td>
<td>Bartlett, Elizabeth Ann</td>
<td>3 cr</td>
</tr>
<tr>
<td>54977</td>
<td>49041 Independent Study (max crs 6; A-F only; prereq 1000, instr consent)</td>
<td>1-9</td>
<td>IEX</td>
<td>01:00pm-02:50pm</td>
<td>W H 480</td>
<td>Bartlett, Elizabeth Ann</td>
<td>1-9 cr</td>
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<tr>
<td>47503</td>
<td>5000 Seminar (A-F only; prereq 1000, 2101, 3100, 15 cr WS or WS-related courses, WS major or minor, or instr consent)</td>
<td>4</td>
<td>TTh</td>
<td>01:00pm-02:50pm</td>
<td>W H 480</td>
<td>Bartlett, Elizabeth Ann</td>
<td>4 cr</td>
</tr>
<tr>
<td>51337</td>
<td>5897 Teaching Internship in Women’s Studies (max crs 2; S-N only; prereq 1000, 2101, 90cr, WS major, instructor consent; no Grad School credit)</td>
<td>1-2</td>
<td>IEX</td>
<td>01:00pm-02:50pm</td>
<td>W H 480</td>
<td>Bartlett, Elizabeth Ann</td>
<td>1-2 cr</td>
</tr>
<tr>
<td>49039</td>
<td>5991 Independent Study (max crs 4; A-F only; prereq 1000, 3100, 15 cr WS or WS-related courses or grad student, instr consent)</td>
<td>1-3</td>
<td>LEC</td>
<td>06:00pm-09:50pm</td>
<td>BohH 104</td>
<td>Varney, Joan Dee</td>
<td>1-3 cr</td>
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This information is accurate as of: 11/02/2007