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

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

Example 3
001 LEC, 08:00am-09:40am T
41533 002 LAB, 10:00am-11:40am T
21533 003 LAB, 10:00am-11:40am Th
04133 004 LEC, 11:00am-12:40am Th
11533 005 LAB, 02:00pm-03:40pm T
64574 006 LAB, 02:00pm-03:40pm Th
81600 007 LET, 09:00am-09:50am MWF (stand-alone lecture without lab for courses which usually have a lab)

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

Course Changes—See under “Registration Information>Class Schedule>Online Version” on the Web at http://www.d.umn.edu/courseinfo/ for the most current and accurate information.
ACCOUNTING (Accnt)
Labovitz School of Business & Economics

2001 Principles of Financial Accounting
(A-F; prereq Min 15 cr or college consent)
62440 @001 LEC, instruction mode: Distance Education Other; (Non-LSBE students); Meets with: 63059 ACCT 2001; Reichter, Charles J, 3 cr
63059 @002 LEC, instruction mode: Distance Education Other; (Non-LSBE students); Meets with: 62440 ACCT 2001; Reichter, Charles J, 3 cr

2005 Survey of Accounting
(A-F; prereq LE req of LE CAT6)
64041 001 LEC, 02:00pm-02:50pm MWF, LSBE 129; Erickson, Loren L, 3 cr

3301 Cost Accounting
(A-F; prereq LSBE cand or non-LSBE acct minor or college consent)
62517 001 LEC, 08:00am-09:15am TTh, LSBE 129; (LSBE candidates); Meets with: 63063 ACCT 3201; Brannan PhD, Rodger L, 3 cr
63063 002 LEC, 08:00am-09:15am TTh, LSBE 129; (Non-LSBE Acct minors); Meets with: 62517 ACCT 3201; Brannan PhD, Rodger L, 3 cr

3301 Accounting Information Systems
(A-F; prereq LSBE cand or non-LSBE acct minor or college consent; credit will not be granted if already received for 3110.)
63162 001 LEC, 10:00am-10:50am MWF, LSBE 237; (LSBE candidates); Meets with: 65163 ACCT 3301; Hsiao, Daniel, 3 cr
63163 002 LEC, 10:00am-10:50am MWF, LSBE 237; (Non-LSBE Acct minors); Meets with: 63162 ACCT 3301; Hsiao, Daniel, 3 cr
63318 003 LEC, 12:00pm-12:50pm MWF, LSBE 237; (LSBE candidates); Meets with: 65318 ACCT 3301; Hsiao, Daniel, 3 cr
63319 004 LEC, 12:00pm-12:50pm MWF, LSBE 237; (Non-LSBE Acct minors); Meets with: 65318 ACCT 3301; Hsiao, Daniel, 3 cr

3401 Individual Income Taxation
(A-F; prereq Credit will not be granted if already received for ACCT 3152 or 4152; LSBE cand or approved non-LSBE acct minor or college consent)
64042 001 LEC, 11:00am-12:15pm TTh, LSBE 229; (LSBE candidates); Meets with: 64508 ACCT 3401; Skalberg, Randy, 3 cr
64058 002 LEC, 11:00am-12:15pm TTh, LSBE 229; (Non-LSBE Acct minors); Meets with: 64502 ACCT 3401; Skalberg, Randy, 3 cr

3705 Volunteer Income Tax Assistance
(max crs 3; S-N; prereq dept consent, 2 cr first registration, 1 cr repeat; credit will not be granted if already received for 3096.)
65269 001 IEK, 05:00pm-07:30pm TTh, LSBE 125; Skalberg, Randy, 1-2 cr

3796 Internship in Accounting
(max crs 6, 3 repeats allowed; S-N; prereq 3101, dept consent; repeatable for a max of 6 credits; 3 repeats allowed; max 3 or may be applied to acct electives; may take ACCT 3196 and 3796 for a total of 6 credits.)
65270 001 IEK; Roline, Alan C, 2-6 cr

3991 Independent Study
(max crs 3; repeats allowed; A-F; prereq BAc cand with 80 or dept consent; not available as acct elective; may take ACCT 3191 and 3991 for a total of 3 credits.)
66214 001 IND; Roline, Alan C, 1-3 cr

4101 Auditing
(A-F; prereq 3102, 3110 or 3301, LSBE cand or college consent; no Grad School cr; credit will not be granted if already received for 4100.)
65998 001 LEC, 11:00am-12:15pm TTh, LSBE 129; Reichert, Charles J, 3 cr
65997 002 LEC, 03:30pm-04:45pm TTh, LSBE 135; Reichert, Charles J, 3 cr

4501 Advanced Accounting
(A-F; prereq 3102, LSBE cand or college consent)
65999 001 LEC, 11:00am-11:50am MWF, LSBE 165; Kang, Grace, 3 cr

4505 International Accounting
(A-F; prereq 3102, LSBE cand or college consent)
65270 001 LEC, 02:00pm-03:15pm TTh, LSBE 229; Brannan PhD, Rodger L, 3 cr

AEROSPACE STUDIES (Air)
Swenson College of Science & Engineering

100 AFROTC GMC Leadership Laboratory
(S-N only)
64234 001 LAB, 06:15am-07:45am Th, DADB 16A; Meets with: 63227 AIR 3000, 64234 AIR 3001; Carlson, Troy A; Kolch, Kurt M, 1 cr

1102 Foundations of the U.S. Air Force
(A-F only)
62269 001 LEC, 07:00am-07:50am T, DADB 16A; Hollis, Colleen Joy; Carlson, Troy A; Kolch, Kurt M, 1 cr
65756 002 LEC, 08:00am-08:50am T, DADB 16A; Hollis, Colleen Joy; Carlson, Troy A; Kolch, Kurt M, 1 cr

191 Leadership Practicum
(max crs 4; repeats allowed; A-F only)
62265 001 PRC; Carlson, Troy A; Kolch, Kurt M, 1-4 cr

2102 The Evolution of the U.S. Air Force and Space Power
(A-F only)
62284 001 LEC, 07:00am-07:50am W, DADB 16A; Carlson, Troy A; Kolch, Kurt M, 1 cr

3000 AFROTC POC Leadership Laboratory
(max crs 4; repeats allowed; S-N only)
63220 001 LAB, 06:15am-07:45am Th, DADB 16A; Meets with: 63227 AIR 100, 64234 AIR 1000, 64235 AIR 3001; Carlson, Troy A; Kolch, Kurt M, 1 cr

3001 AFROTC POC Lead Lab
(max crs 6; repeats allowed; S-N only)
64235 001 LAB, 06:15am-07:45am Th, DADB 16A; Meets with: 63227 AIR 100, 64234 AIR 3000, 64234 AIR 1000; Carlson, Troy A; Kolch, Kurt M, 2 cr

3102 Air-Force Leaderships Studies
(A-F only)
62306 001 LEC, 04:00pm-06:00pm W, DADB 16A; Carlson, Troy A, Kolch, Kurt M, 3 cr

3591 Leadership Practicum
(max crs 4; repeats allowed; A-F only)
62305 001 PRC; Carlson, Troy A; Kolch, Kurt M, 1-4 cr

4102 National Security Affairs, Preparation for Active Duty
(A-F only; prereq No Grad School cr)
63207 001 LEC, 09:00am-09:50am M, DADB 16A; Carlson, Troy A; Kolch, Kurt M, 3 cr

AFRICAN AND AFRICAN AMERICAN STUDIES (AAS)
College of Liberal Arts

1101 Introduction to Black Caribbean Studies
(A-F only; meets LE req of LE CAT6; meets LEIP req of LEIP CAT06)
65684 001 LEC, 01:00pm-02:15pm MW, Cina 224; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education-EXPIRES 10-JAN-2012; Haynes, Janet May, 3 cr

1102 Introduction to Atlantic Slave Trade
(A-F only; meets LE req of LE CAT7; meets LECQ req of LECQ CAT07)
65943 001 LEC, 11:00am-12:15pm Th, Cina 224; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education-EXPIRES 10-JAN-2012; Arthur, John A, 3 cr

3201 The African American Family
(A-F only; prereq minimum 60 credits)
68189 001 LEC, 04:30pm-05:40pm MW, Cina 224; Cameron, Mary Louise, 3 cr

This information is accurate as of: 11/3/2011
3500 Jewelry and Metals II (A-F only; prereq 2400, art or art ed major or art minor or instr consent) 62895 090 LEC, 12:00pm-01:55pm TTh, ABAH 335; Lehman, Victoria Dahlstrom, 3 cr

3400 Ceramics II (max crs 9; 9 repeats allowed; A-F only; prereq 2300, art or art ed major or art minor or instr consent; no Grad School cr) 62339 001 LEC, 02:00pm-03:55pm TTh, H 331; Meets with: 62339 ART 3400; James, Elizabeth J, 3 cr

3018 Digital Arts: Interactive Media (A-F only; prereq 2016, art major or minor or instr consent) 67600 001 STU, 02:00pm-03:55pm TTh, Library 118; Roark, Joelleyn Jean, 3 cr

3031 Digital Arts: Installation and Collaborative Media (max crs 6; A-F only; prereq 2030, art or art ed major, pre-art educ major or pre-educ design major, or art minor or instr consent ; credit will not be granted if already received for 5000) 64907 001 LEC, 06:00pm-07:55pm MW, Library 118; Hunt, Betsy Janelle, 3 cr

3300 Painting II (max crs 9; 3 repeats allowed; A-F only; prereq 2300 or 2301, art or art ed major, pre-art educ major or pre-educ design major, or art minor or instr consent ; credit will not be granted if already received for 5000) 62346 001 LEC, 10:00am-11:55am MW, H 318; Meets with: 62347 ART 4100; Nakajima, Ryuta, 3 cr

3214 Sculpture II: Robotics and Physical Computing (max crs 6; A-F only; prereq 2200, art or art ed major or art minor or instr consent) 64900 001 LAB, 10:00am-11:55am MW, ABAH 145; Bowen, David W, 3 cr

3400 Ceramics II (max crs 6; A-F only; 2400 or instr consent) 62339 001 LEC, 02:00pm-03:55pm TTh, ABAH 155; Meets with: 62340 ART 4400; James, Elizabeth J, 3 cr

3600 Photography: Alternative Processes (A-F only; prereq 1013, 1607 or 2600, Art major or Art or Photography minor or instr consent) 62472 001 LEC, 02:00pm-03:55pm TTh, Cina 16; Peacry, Wanda J, 3 cr

3700 Drawing II (max crs 6; A-F only; prereq 1006 or 1009 or 1010, art or art ed major, pre-art educ major or pre-educ design major, or art minor or instr consent) 64922 001 LEC, 10:00am-11:55am MW, ABAH 325; Christine, Jayme, 3 cr

3715 Figure Drawing (A-F; prereq 3700, art or ed or graphic design major or art minor or instr consent) 64370 001 LEC, 02:00pm-03:55pm TTh, H 331; Dietrich, Jennifer Lee, 3 cr

3809 Art in Elementary Education Methods (A-F only; prereq 9003, art education cand) 64228 001 LEC, 12:00pm-01:55pm TTh, H 331; Aune, Alison Judith, 3 cr

3811 Teacher as Artist: Postmodern Theory and Practice (A-F only; prereq 9003, 3809 or 3810). Art ed major or instr consent) 64784 001 LEC, 02:00pm-03:55pm TTh, H 331; Dietrich, Jennifer Lee, 3 cr

3907 Typography II (A-F only; prereq 2907, graphic design major or instr consent) 67630 001 LEC, 10:00am-11:55am MW, MonH 239; Koch, Beth E, 3 cr

3933 Graphic Design III (A-F only; prereq 3922, graphic design major or instr consent) 64233 001 LEC, 10:00am-11:55am MW, ABAH 335; Wittig, Rob, 3 cr

3922 Graphic Design II (A-F only; prereq 2911, graphic design major or instr consent) 65605 @050 LEC, instruction mode: Distance Education Other; Edel, Miranda Elizabeth, 3 cr

4191 Individual Study in Painting (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) 62347 001 LEC, 10:00am-11:55am MW, H 331; Meets with: 62346 ART 3100; Nakajima, Ryuta, 3 cr

4100 Painting III (max crs 9; 3 repeats allowed; A-F only; prereq 3100, art or art ed major or art minor or instr consent; no Grad School cr) 64569 001 IND; Bowen, David W, 1-3 cr

4291 Individual Study in Sculpture (max crs 9; 3 repeats allowed; A-F only; prereq 2 sem sculpture, instr consent; no Grad School cr) 64597 001 IND; Bowen, David W, 1-3 cr

4300 Printmaking III (max crs 6; A-F only; prereq 3300, art or art ed major or art minor or instr consent) 64929 001 LEC, 10:00am-11:55am MW, H 332; Meets with: 64928 ART 3300; Repinski, Robert A, 3 cr

4391 Individual Study in Printmaking (max crs 9; 3 repeats allowed; A-F only; prereq 3300, dept consent) 65807 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) 62430 001 LEC, 02:00pm-03:55pm TTh, ABAH 155; Meets with: 62339 ART 3400; James, Elizabeth J, 3 cr

4491 Individual Study in Ceramics (max crs 6; A-F only; prereq 3400, art or art ed major or art minor or instr consent) 62480 001 IND; James, Elizabeth J, 1-3 cr

4600 Photography: Digital Portfolio (max crs 9; 3 repeats allowed; A-F only; prereq 1900, 1607 or 2600, art major or art or photography minor or instr consent) 62473 001 LEC, 02:00pm-03:55pm MW, Cina 16; Brush, Gloria Defilippis, 3 cr

4650 Alternative Processes Portfolio (max crs 6; A-F; prereq 4600, art or art ed major or art or photography minor or instr consent) 64378 001 STU, 02:00pm-03:55pm TTh, Cina 16; Peacry, Wanda J, 3 cr

4675 Photography: The Photographic Book (max crs 9; 3 repeats allowed; A-F, prereq 4600, art major or photography minor or instr consent) 64779 001 STU, 10:00am-11:55am MW, Cina 16; Brush, Gloria Defilippis, 3 cr

4491 Individual Study in Photography (max crs 9; 9 repeats allowed; A-F only; prereq 2 semesters of photography, dept consent) 62987 001 IND; Brush, Gloria Defilippis, 1-3 cr

4491 Individual Study in Photography (max crs 9; 9 repeats allowed; A-F only; prereq 2 semesters of photography, dept consent) 62987 001 IND; Brush, Gloria Defilippis, 1-3 cr

4813 Senior Seminar II: Studio Practice (A-F only; prereq 4812, Sr or instr consent, studio art-general major; no Grad School cr) 64380 001 LEC, 12:00pm-12:50pm MW, Library 325; Wittig, Rob, 3 cr

4907 Motion Graphics 67985 002 LEC, 04:00pm-05:15pm TTh, ABAH 345; Dietrich, Jennifer Lee, 3 cr

4910 Seminar Presentation/Exhibition (A-F only; prereq Sr art major, instr consent; no Grad School cr) 62479 001 STU; Klug, James, 1 cr

4903 Art Education Student Teaching Seminar (A-F only; prereq Art ed major and Concurrent registration is required (or allowed) in Educ 4500, EdSe 4600, ElEd 4650; no Grad School cr) 64919 001 LEC, 04:00pm-04:50pm Th, H 331; Aune, Alison Judith, 1 cr

4905 Design Technology II (A-F only; prereq 2905, graphic design major or instr consent) 63176 001 LEC, 12:00pm-01:55pm MW, MonH 108; Lehman, Victoria Dahlstrom, 3 cr

4907 Motion Graphics (A-F only; prereq 2911 and graphic design major, or digital art or photography emphasis or Grad Student, or instr consent ; credit will not be granted if already received for 5907) 65040 @050 LEC, instruction mode: Distance Education Other; Edel, Miranda Elizabeth, 3 cr

This information is accurate as of: 11/3/2011
Continuing Education - EXPIRES 10-JAN-2012, 4 cr
64842 002 SEM, 09:00am-09:50am MW, SSB 202;
Class meets 3:00-4:15 P.M. on Fridays for required Biology Seminar in LSci 185.; Dahl, John L, 1 cr
64844 004 SEM, 03:00pm-03:50pm MW, SSB 202;
Class meets 3:00-4:15 P.M. on Fridays for required Biology Seminar in LSci 185.; Dahl, John L, 1 cr
64854 005 SEM, 11:00am-11:50am TH, SSB 202;
Class meets 3:00-4:15 P.M. on Fridays for required Biology Seminar in LSci 185.; Schoff, Patrick K, 1 cr
64856 006 SEM, 08:00am-09:50am MW, SSB 202;
Class meets 3:00-4:15 P.M. on Fridays for required Biology Seminar in LSci 185.; Schoff, Patrick K, 1 cr

3993 Laboratory Teaching Experience
(max crs: 2; S-N only; prereq instr consent, biol or cell biol major, 90 cr or ind 25 Biol; max 2 cr may be applied toward Biol major)
62512 001 LAB, Completion of Form 3993 required to register for course., 1-2 cr

3994 Undergraduate Research
(max crs: 6; repeats allowed; S-Nonly; prereq 1012, 10 cr, or instr consent; max 4 cr may be applied toward biol or cell biol major or minor as upper div elective)
62515 001 DR5, Completion of Form 3944 required to register for course., 1-3 cr

3996 Internship in Biology
(max crs: 2; S-N only; prereq 1012, instr consent, max 1 cr may be applied to Biol or cell biol major)
62514 010 IEX, Completion of Form 3996 required to register for course., 1-3 cr

4199 Frontiers in Cell Biology
(A-F only; prereq 2201, 2001, 90 cr, or Biol or IBS Grad Student; credit will not be granted if already received for 5231)
68019 001 LEC, 02:00pm-03:50pm M, MAWH 175;
Andrews, Matthew T, 2 cr

4321 Molecular Biology
(A-F, prereq 2201, 2101 or instr consent, or Biol or IBS Grad Student; credit will not be granted if already received for 5231)
62516 001 LEC, 09:30am-10:45am TH, LSci 175;
Kroth, Tim, 3 cr

4361 Developmental Biology
(A-F only; prereq 2101 or instr consent, or Biol or IBS Grad Student; credit will not be granted if already received for 5361)
60401 001 LEC, 09:00am-10:50am MW, SSB 208;
Dahl, John L, 4 cr
1154 General Chemistry Lab I
(A-F only; prereq: Concurrent or previous enrollment in CHEM 1153 or credit will not be granted if already received for CHEM 1151 or 1161; meets LEq req of LE CAT4)

1155 General Chemistry II
(A-F only; prereq: Concurrent or previous enrollment in CHEM 1155; credit will not be granted if already received for CHEM 1151 or 1152, 1155 or 1153 and 1154 or 1161; credit will not be granted if already received for CHEM 1155; credit will not be granted if already received for 1152, 1155 or 1162; credit will not be granted if already received for CHEM 1151 or 1156, 1155; concurrent registration is required (or allowed) in 2541; credit will not be granted if already received for CHEM 2321, ENGR 2110)

1162 Honors: General Chemistry II
(Credit will not be granted if credit has been received for CHEM 2172; A-F only; prereq: 1151 or 1153 and 1156 or 1161; credit will not be granted if already received for 1152, 1155 or 2172; meets HON req of Honors)

1191 Independent Study
(max crs 4; 4 repeats allowed; A-F only; prereq dept consent)

222 Quantitative Analysis
(A-F only; prereq: 1152 or 1162 or 1155 and 1156, Concurrent registration is required (or allowed)) in 2223; credit will not be granted if already received for 2212 or 2242)

223 Quantitative Analysis Laboratory
(A-F only; prereq: 1152 or 1153 or 1156 and 1157, Concurrent registration is required (or allowed)) in 2223; credit will not be granted if already received for 2212 or 2242)

2541 Organic Chemistry I
(A-F only; prereq: 2512 or 2541, Concurrent registration is required (or allowed) in 2541; credit will not be granted if already received for 2522, 2532)

2544 Organic Chemistry II Laboratory
(A-F only; prereq: 1152 or 1162 or 1155 and 1156, Concurrent registration is required (or allowed) in 2541; credit will not be granted if already received for 2521, CHE 3231, ENGR 2110)

2545 Organic Chemistry II Laboratory
(A-F only; prereq: 2521 or 2541 and 2543, Concurrent registration is required (or allowed) in 2542; credit will not be granted if already received for 2522, 2532, 2545)

2546 Organic Chemistry III
(A-F only; prereq: 2522 or 2542 and 2543, Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2522, 2532, 2545)

307 Internship in Chemistry
(max crs 2; S-N; prereq: 2521 or 2541 or 2223, chem or biochem/biophysics majors and dept consent)

3194 Chemistry Undergraduate Research
(max crs 30; 10 repeats allowed; S-N only; prereq dept consent)

3322 Biochemistry
(A-F only; prereq: 2522 or 2532 or 2542, Concurrent registration is required (or allowed) in 3324)

3324 Biochemistry Laboratory
(A-F only; prereq: 2522 or 2532 or 2542, Concurrent registration is required (or allowed) in 3324)

This information is accurate as of: 11/3/2011
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4842</td>
<td>Instrumental Analysis</td>
<td>(A-F only; prereq: 2222, 4632 or 4634 or 4642)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4374</td>
<td>Physical Biochemistry Laboratory</td>
<td>(A-F only; prereq: 4373, no grad credit)</td>
<td>4 cr</td>
</tr>
<tr>
<td>4642</td>
<td>Advanced Physical Chemistry</td>
<td>(A-F only; prereq: 4642 or equivalent or Grad student)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4352</td>
<td>Biochemistry II</td>
<td>(A-F only; prereq: 4351)</td>
<td>3 cr</td>
</tr>
<tr>
<td>3432</td>
<td>Descriptive Inorganic Chemistry</td>
<td>(A-F only; prereq: 2222 and 2223) or 2424 and 2542 and (2544 or 2545 or 2522 or 2532)</td>
<td>4 cr</td>
</tr>
<tr>
<td>8666</td>
<td>Doctoral Pre-Thesis Credits</td>
<td>(max crs 12; NGA)</td>
<td>4 cr</td>
</tr>
<tr>
<td>62898</td>
<td>001 LEC, 10:00am-10:50am MWF, CHem 251</td>
<td>Evans, John F</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**CHINESE (CHIN)**

**College of Liberal Arts**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1102</td>
<td>Beginning Chinese II: A Practical Introduction to Everyday Mandarin Chinese</td>
<td></td>
<td>4 cr</td>
</tr>
<tr>
<td>1025</td>
<td>Introduction to Civil Engineering</td>
<td>(A-F; prereq: Civil Engineering students)</td>
<td>3 cr</td>
</tr>
<tr>
<td>3015</td>
<td>CAD &amp; Engineering Drawing</td>
<td>(A-F only; prereq: 3011)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3013</td>
<td>Environmental Engineering</td>
<td>(A-F; prereq: Chem 1154, CE 3221)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3022</td>
<td>Infrastructure Materials</td>
<td>(A-F only; prereq: 2017, BSCE candidate)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3115</td>
<td>Structural Analysis</td>
<td>(A-F only; prereq: 2017, Math 3280)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3221</td>
<td>Fluid Mechanics</td>
<td>(A-F only; prereq: 2017, Math 3280)</td>
<td>4 cr</td>
</tr>
<tr>
<td>5994</td>
<td>Directed Research in Chemistry</td>
<td>(max crs 12; NGA)</td>
<td>4 cr</td>
</tr>
<tr>
<td>5624</td>
<td>Advanced Physical Chemistry</td>
<td>(A-F only; prereq: 4642 or equivalent or Grad student)</td>
<td>3 cr</td>
</tr>
<tr>
<td>5994</td>
<td>Directed Research in Chemistry</td>
<td>(max crs 12; NGA)</td>
<td>3 cr</td>
</tr>
<tr>
<td>8184</td>
<td>Seminar</td>
<td>(S-N only; prereq: Grad Chem major or instr consent)</td>
<td>1 cr</td>
</tr>
<tr>
<td>62708</td>
<td>001 SEM, 03:00pm-05:00pm F, Chem 200</td>
<td>Meets with Chemistry Seminar; Kiprolf, Paul</td>
<td>1 cr</td>
</tr>
<tr>
<td>8333</td>
<td>FTE: Master's</td>
<td>(NGA; prereq: Master's student, adviser and DGS consent)</td>
<td>1 cr</td>
</tr>
<tr>
<td>8444</td>
<td>FTE: Doctoral</td>
<td>(NGA; prereq: Doctoral student, adviser and DGS consent)</td>
<td>1 cr</td>
</tr>
<tr>
<td>8524</td>
<td>Advanced Organic Chemistry II</td>
<td>(A-F only; prereq: 5534)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4842</td>
<td>Instrumental Analysis</td>
<td>(A-F only; prereq: 2222, 4632 or 4634 or 4642)</td>
<td>4 cr</td>
</tr>
<tr>
<td>4374</td>
<td>Physical Biochemistry Laboratory</td>
<td>(A-F only; prereq: 4373, no grad credit)</td>
<td>4 cr</td>
</tr>
<tr>
<td>4642</td>
<td>Advanced Physical Chemistry</td>
<td>(A-F only; prereq: 4642 or equivalent or Grad student)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4352</td>
<td>Biochemistry II</td>
<td>(A-F only; prereq: 4351)</td>
<td>3 cr</td>
</tr>
<tr>
<td>3432</td>
<td>Descriptive Inorganic Chemistry</td>
<td>(A-F only; prereq: 2222 and 2223) or 2424 and 2542 and (2544 or 2545 or 2522 or 2532)</td>
<td>4 cr</td>
</tr>
<tr>
<td>8666</td>
<td>Doctoral Pre-Thesis Credits</td>
<td>(max crs 12; NGA)</td>
<td>4 cr</td>
</tr>
<tr>
<td>62898</td>
<td>001 LEC, 10:00am-10:50am MWF, CHem 251</td>
<td>Evans, John F</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

**CIVIL ENGINEERING (CE)**

**Swenson College of Science & Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1025</td>
<td>Introduction to Civil Engineering</td>
<td>(A-F; prereq: Civil Engineering students)</td>
<td>3 cr</td>
</tr>
<tr>
<td>3015</td>
<td>CAD &amp; Engineering Drawing</td>
<td>(A-F only; prereq: 3011)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3022</td>
<td>Infrastructure Materials</td>
<td>(A-F only; prereq: 2017, BSCE candidate)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3115</td>
<td>Structural Analysis</td>
<td>(A-F only; prereq: 2017, Math 3280)</td>
<td>4 cr</td>
</tr>
<tr>
<td>3221</td>
<td>Fluid Mechanics</td>
<td>(A-F only; prereq: 2017, Math 3280)</td>
<td>4 cr</td>
</tr>
<tr>
<td>5994</td>
<td>Directed Research in Chemistry</td>
<td>(max crs 12; NGA)</td>
<td>4 cr</td>
</tr>
<tr>
<td>5624</td>
<td>Advanced Physical Chemistry</td>
<td>(A-F only; prereq: 4642 or equivalent or Grad student)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4842</td>
<td>Instrumental Analysis</td>
<td>(A-F only; prereq: 2222, 4632 or 4634 or 4642)</td>
<td>4 cr</td>
</tr>
<tr>
<td>4374</td>
<td>Physical Biochemistry Laboratory</td>
<td>(A-F only; prereq: 4373, no grad credit)</td>
<td>4 cr</td>
</tr>
<tr>
<td>4642</td>
<td>Advanced Physical Chemistry</td>
<td>(A-F only; prereq: 4642 or equivalent or Grad student)</td>
<td>3 cr</td>
</tr>
<tr>
<td>4352</td>
<td>Biochemistry II</td>
<td>(A-F only; prereq: 4351)</td>
<td>3 cr</td>
</tr>
<tr>
<td>3432</td>
<td>Descriptive Inorganic Chemistry</td>
<td>(A-F only; prereq: 2222 and 2223) or 2424 and 2542 and (2544 or 2545 or 2522 or 2532)</td>
<td>4 cr</td>
</tr>
<tr>
<td>8666</td>
<td>Doctoral Pre-Thesis Credits</td>
<td>(max crs 12; NGA)</td>
<td>4 cr</td>
</tr>
<tr>
<td>62898</td>
<td>001 LEC, 10:00am-10:50am MWF, CHem 251</td>
<td>Evans, John F</td>
<td>3 cr</td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
This information is accurate as of: 11/3/2011
This information is accurate as of: 11/3/2011
1121 Introduction to Programming in Visual BASIC.NET
(Credit will not be granted if credit has been received for: CMS/CS 1225; A-F only; prereq 1 yr high school algebra or instr consent; meets LE req of LE CAT3)
001 LEC, 06:00am-06:50am M, MWAH 175; Holtz, Steven J, 3 cr

1141 Introduction to Programming in C#
(A-F only; prereq 1 yr high school algebra or instr consent; meets LE req of LE CAT3)
001 LEC, 03:00pm-03:50pm M, MWAH 175; Holtz, Steven J, 3 cr

1511 Computer Science I
(Credit will not be granted if credit has been received for: CS 1211; A-F only; prereq 1511 or 5811)
001 LEC, 03:00pm-03:50pm M, MWAH 175; Holtz, Steven J, 3 cr

1521 Computer Science II
(Credit will not be granted if credit has been received for: CS 2111; A-F only; prereq 1511 or 5811)
001 LEC, 03:00pm-03:50pm MWF, MWAH 175; Holtz, Steven J, 3 cr

1151 Advanced Computing Systems
(A-F only; prereq 1521; 3 repeats allowed; S-N only; credit will not be granted if credit has been received for: CS 2111)
001 LEC, 09:00am-10:15am TTh, HH 306; Crouch, Donald B, 4 cr

1171 Advanced Operating System
(A-F only; prereq 1521; 3 repeats allowed; S-N only; credit will not be granted if credit has been received for: CS 2111)
001 LEC, 09:00am-10:15am TTh, HH 306; Crouch, Donald B, 4 cr

1121 Introduction to Programming in Java
(A-F only; prereq 3 yrs high school math, or instr consent; meets LE req of LE CAT3)
001 LEC, 02:00pm-02:50pm TTh, MWAH 175; 13 seats reserved for Continuing Education; Holtz, Steven J, 3 cr

2121 Introduction to Programming in Java
(A-F only; prereq 3 yrs high school math, or instr consent; meets LE req of LE CAT3)
001 LEC, 09:30am-10:45am TTh, LSci 185; Colburn, Timothy Robert, 4 cr

2511 Software Analysis and Design
(prereq 1521 or instr consent)
001 LEC, 09:30am-10:45am TTh, LSci 185; Colburn, Timothy Robert, 4 cr

2521 Computer Organization and Architecture
(prereq 1521, ECE 1515, Math 1266 or instr consent)
001 LEC, 01:00pm-01:50pm MWF, MWAH 175; Shute, Gary M, 4 cr

3111 Computer Ethics
(A-F only; prereq Comp 3010 or 3110 or 3120 or 3130 or 3140 or 3150 or 3160 or 3170; credit will not be granted if credit has been received for 4711)
001 LEC, 01:00pm-01:50pm MWF, MWAH 175; Hudson, 4 cr

3512 Computer Science Theory
(A-F only; prereq 1521, Math 1296 or 1596 or instr consent)
001 LEC, 01:00pm-01:50pm MWF, MWAH 175; Willemsen, Peter J, 4 cr

3996 Internship in Computer Science
(max crs 3; 3 repeats allowed; S-N only; credit will not be granted if credit has been received for: Comp sci jr, instr consent)
001 LEC, 01:00pm-01:50pm MWF, MWAH 175; Pedersen, Ted, 3 cr

4411 Data Communications and Network Technology
(A-F only; prereq 2511, 3110 or instr consent, credit will not be granted if credit has been received for: Data Communications & Network Technology)
001 LEC, 01:00pm-01:50pm MWF, MWAH 175; Shute, Gary M, 4 cr

4991 Independent Study
(max crs 6; 8 repeats allowed; A-F only; prereq instr consent)
001 IND; Maclin, Richard Frank, 1-4 cr

4994 Honors Project
(max crs 3; A-F only; prereq Consent of comp sci honors prog committee; meets HON req of Honors)
001 IND; Colburn, Timothy Robert, 2-3 cr

5121 Computer Architecture
(A-F only; prereq 2521 or instr consent)
001 LEC, 11:00am-11:50am MWF, HH 306; Willemsen, Peter J, 4 cr

5161 Operating Systems
(A-F only; prereq 2521 or instr consent)
001 LEC, 01:00pm-01:50pm MWF, HH 306; Prince, Christopher George, 4 cr

5271 Computer Graphics
(A-F only; prereq 2511, Math 2326 or 3326 or 4326 or instr consent)
001 LEC, 12:30pm-01:45pm TTh, HH 306; Willemsen, Peter J, 4 cr

5991 Independent Study
(max crs 6; 8 repeats allowed; A-F only; prereq instr consent)
001 IND; Pedersen, Ted, 1-4 cr
CONTINUING EDUCATION (CnEd)

Continuing Education

2535 Major and Career Exploration

(A-F only; prereq Fewer than 45 credits or instr consent)

64595 090 LEC, 05:00pm-05:15pm T, Cina 106, 01/ 17/12-03/09/12; (In addition to the textbook, students will need to purchase and complete the StrengthsQuest and Strong Interest Inventory assessments from Career Services. Cost for both assessments is $30. Hybrid course with classroom and internet components. (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 6 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Holm, Susan Marie; Olsen, Sonja M., 2 cr

66239 092 LEC, 05:00pm-06:15pm T, Cina 106, 03/ 18/12-05/04/12; (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 5 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Holm, Susan Marie; Olsen, Sonja M., 2 cr

68857 093 LEC, 05:00pm-06:15pm M, KPlz 385, 03/ 19-05/04/12; (In addition to the textbooks, students need to purchase and complete the StrengthsQuest and Strong Interest Inventory assessments from Career Services. Cost for both assessments is $30. Hybrid course with classroom and internet components. (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 5 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Hatcher, Michele N., 2 cr

68858 094 LEC, 05:00pm-05:15pm W, KPlz 143, 03/ 19-05/04/12; (For unenrolled students in SCSE only. Exploration will focus on SCSE majors and related careers. In addition to the textbooks, students need to purchase and complete the StrengthsQuest and Strong Interest Inventory assessments from Career Services. Cost for both assessments is $30. Hybrid course with classroom and internet components. (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 6 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Hatcher, Michele N., 2 cr

3535 Strategic Career Planning

(Credit will not be granted if credit has been received for: PSY 3035; A-F only; prereq Min 45 cr or instr consent)

64584 350 LEC; (Students must register no later than 01/23/2012 and complete all requirements by 05/04/2012. Initial course information is available at http://www.d.umn.edu/goto/coeonline>Starting On Your Online Course</a>.); 5 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Westlund, Julie Anne, 1 cr

4384 Child Abuse and Child Protection in Minnesota

(A-F only; prereq WRIT 1120, 45 credits and declared major)

66983 600 LEC, 05:00pm-05:50pm T, Library 408; (Class meets face-to-face on T January 17; T, January 24; T, February 14; and T, April 10, 5:00-5:50 PM. In addition to the textbook, students will need to purchase and complete the StrengthsQuest assessment from Career Services. Cost of the assessment is $15.) (C cr reserved seats will be available to UMD students one week before the start of the semester.); 5 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Westlund, Julie Anne, 1 cr

5361 Correctional Continuum

(A-F only; prereq SOC 1101, Soph or higher or instr consent; credit will not be granted if already received for SOC 3361)

64093 001 LEC, 08:00am-08:50am MWF, Cina 224; Maahs, Jeffrey Robert, 3 cr

64996 002 LEC, 08:50am-09:40am MWF, Cina 224; Maahs, Jeffrey Robert, 3 cr

4323 Women and Justice

(A-F only; prereq 3011 or SOC 1101 or CRJ 1101 or Anth 1604 or WS 1000, 30 cr, or instr consent, no Grad School cr; credit will not be granted if already received for SOC 4323)

66686 001 LEC, 01:00pm-02:15pm TTh, Cina 224; Plechner, Deborah Marie, 3 cr

4340 Race, Crime and Justice

(A-F only; prereq 3011 or SOC 1101 or Anth 1604 or CRJ 1101, 30 cr or Grad School student or instr consent; credit will not be granted if already received for SOC 4340)

67734 001 LEC, 12:00pm-12:50pm MWF, Cina 102; Gaarder, Emily, 3 cr

4384 Child Abuse and Child Protection in Minnesota

(A-F only; prereq 90 cr or Grad Student or instr consent; credit will not be granted if already received for SOC 4384)

63282 090 LEC, 08:00am-08:50am Th, Cina 224; (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 5 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Yeaton, Sherell J., 3 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>62312</td>
<td>Principles of Economics: Micro</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>12:00pm-02:50pm MWF, LSBE 118</td>
</tr>
<tr>
<td>62313</td>
<td>Principles of Economics: Micro</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>09:00am-09:50am MWF, LSBE 118</td>
</tr>
<tr>
<td>62314</td>
<td>Principles of Economics: Micro</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>10:00am-10:50am MWF, LSBE 118</td>
</tr>
<tr>
<td>62315</td>
<td>Principles of Economics: Micro</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>11:00am-11:50am MWF, LSBE 118</td>
</tr>
<tr>
<td>62316</td>
<td>Principles of Economics: Micro</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>01:00pm-01:50pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**ECONOMICS (Econ)**

**Labovitz School of Business & Economics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63164</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>03:00pm-04:15pm MW, LSBE 118</td>
</tr>
<tr>
<td>63165</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MW, LSBE 118</td>
</tr>
<tr>
<td>63166</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MW, LSBE 118</td>
</tr>
<tr>
<td>63167</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MW, LSBE 118</td>
</tr>
<tr>
<td>63168</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>12:00pm-01:05pm MW, LSBE 118</td>
</tr>
<tr>
<td>63169</td>
<td>103 Economics and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>01:00pm-02:05pm MW, LSBE 118</td>
</tr>
</tbody>
</table>

**GEOGRAPHY (GEO)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63055</td>
<td>101 Introduction to Physical Geography</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>10:00am-10:50am MWF, LSBE 118</td>
</tr>
<tr>
<td>63056</td>
<td>101 Introduction to Physical Geography</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>11:00am-11:50am MWF, LSBE 118</td>
</tr>
<tr>
<td>63057</td>
<td>101 Introduction to Physical Geography</td>
<td>Fagan, David J.</td>
<td>3 cr</td>
<td>12:00pm-02:50pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**HUMANITIES (HUM)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63896</td>
<td>101 Literature and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63897</td>
<td>101 Literature and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63898</td>
<td>101 Literature and Society</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**INFORMATION TECHNOLOGY (IT)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63199</td>
<td>101 Introduction to Information Technology</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63200</td>
<td>101 Introduction to Information Technology</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63201</td>
<td>101 Introduction to Information Technology</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**LEADERSHIP (LDR)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63111</td>
<td>101 Leading Change</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63112</td>
<td>101 Leading Change</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63113</td>
<td>101 Leading Change</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**BUSINESS (BUS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63099</td>
<td>101 Business Communication</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63100</td>
<td>101 Business Communication</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63101</td>
<td>101 Business Communication</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**LEGAL STUDIES (LAW)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63095</td>
<td>101 Introduction to Legal Studies</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63096</td>
<td>101 Introduction to Legal Studies</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63097</td>
<td>101 Introduction to Legal Studies</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**PHYSICS (PHY)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63183</td>
<td>101 Introduction to Physics</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63184</td>
<td>101 Introduction to Physics</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63185</td>
<td>101 Introduction to Physics</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**SOCIAL WORK (SOC)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63173</td>
<td>101 Introduction to Social Work</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63174</td>
<td>101 Introduction to Social Work</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63175</td>
<td>101 Introduction to Social Work</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**THERAPY (THER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63160</td>
<td>101 Introduction to Therapy</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>09:00am-10:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63161</td>
<td>101 Introduction to Therapy</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>10:00am-11:05am MWF, LSBE 118</td>
</tr>
<tr>
<td>63162</td>
<td>101 Introduction to Therapy</td>
<td>McManus, Charles</td>
<td>3 cr</td>
<td>11:00am-12:05pm MWF, LSBE 118</td>
</tr>
</tbody>
</table>

**UNIVERSITY OF MINNESOTA - Class Schedule for Duluth Campus Spring 2012**

This information is accurate as of: 11/3/2011
EDUCATIONAL ADMINISTRATION (EdAd)
College of Education & Human Service Professions

5914 Education Policy
(A-F only; prereq EdAd lic program or collegiate
graduate program admission or inst consent; no
Grad School cr)

5915 Operations Resource Management and
Scheduling in Education
(A-F only; prereq EdAd lic program or collegiate
graduate program admission or inst consent, no
Grad School cr)

5922 Problem Solving for Superintendents
(A-F only; prereq EdAd lic program or collegiate
graduate program admission or inst consent; no
Grad School cr)

5923 Field Exploration
(S-N; prereq EdAd lic program or collegiate
graduate program admission or inst consent, no
Grad School cr)

5997 Professional Competency Assessment:
Principals
(A-F only; prereq EdAd lic program or collegiate
graduate program admission or inst consent, no
Grad School cr)

5998 Professional Competency Assessment:
Superintendents
(A-F only; prereq EdAd lic program or collegiate
graduate program admission or inst consent, no
Grad School cr)

6100 Internship in Teaching for Administrators
(max crs S-N: 3 repeats allowed; A-F only; prereq
Admission to the EdAd program)

67439 001 LEC, 08:00am-12:30pm S, MonH 108, 01/
21/12-02/12/12, 08:00am-12:30pm S, MonH
108, 03/03/12-03/03/12, 08:00am-12:30pm S,
MonH 108, 04/14/12-04/14/12; Course will meet
Saturday, Jan. 21, Mar. 3, and Apr. 14, 2012.
Additional course hours will be conducted in an
on-line learning environment; 3 cr

6990 Research Project
(max crs 12; 12 repeats allowed; S-N)

6999 PROJECT (A-F only; prereq Admission to EdSe program)

7204 Designing Learning Environments and
Lessons
(A-F only; prereq Admission to EdSe program)

7206 Teaching Content-Area Reading
(Credit will not be granted if credit has been
received for: EDSE 4212, EDSE 4212; A-F only)

7401 Elective in Education Other
Course will meet in an on-line learning
environment.; Williams, Kari J., 3 cr

7403 Apprenticeship: Secondary School
(A-F only; prereq Admission to EdSe program, no
Grad School cr)

7410 Teaching in a Diverse Society
(A-F only; prereq Admission to EdSe program)

7424Teaching Social Studies: Grades 5-12
(A-F only; prereq Admission to EdSe program, no
Grad School cr)

7501 Educational Psychology
(A-F only; prereq Admission to EdSe program, no
Grad School cr)

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

1315 Digital System Design
(A-F only; prereq Pre-Eng, CE, CS, ECE, IE majors only.)

2006 Electrical Circuit Analysis
(A-F only; prereq Pre-Eng, 2011, Concurrent
registration is required (or allowed) in Math
3280)

2111 Linear Systems and Signal Analysis
(A-F only; prereq Pre-Eng, 2006)

2212 Electronics I
(A-F only; prereq 2006)
### University of Minnesota - Class Schedule for Duluth Campus

#### Spring 2012

<table>
<thead>
<tr>
<th>Class Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4991 Independent Study</td>
<td>Antennas and Transmission Lines</td>
<td>Kwako, Jo-an, Christopher Ralph</td>
<td>3 cr</td>
</tr>
<tr>
<td>4999 Senior Design Project I</td>
<td>Digital Signal Processing</td>
<td>Kondrath, Tom, 3</td>
<td>3 cr</td>
</tr>
<tr>
<td>3235 Electronics II</td>
<td>Power Electronics I</td>
<td>Faw, Eric, 3 cr</td>
<td>3 cr</td>
</tr>
<tr>
<td>3341 Digital Computer Circuits</td>
<td>Digital Communications</td>
<td>Stevenson, Joseph, 1 cr</td>
<td>1 cr</td>
</tr>
<tr>
<td>4305 Computer Architecture</td>
<td>Thesis Credits: Master's</td>
<td>Stevenson, Joseph, 1-18 cr</td>
<td>1-18 cr</td>
</tr>
<tr>
<td>4501 Power Systems</td>
<td>College of Education &amp; Human Service Professions</td>
<td>Stevenson, Joseph, 1-18 cr</td>
<td>1-18 cr</td>
</tr>
<tr>
<td>4899 Senior Design Project II</td>
<td>European Language and Literature Instruction</td>
<td>Stevenson, Joseph, 1-18 cr</td>
<td>1-18 cr</td>
</tr>
<tr>
<td>4991 Independent Study</td>
<td>Elementary Education (ElEd)</td>
<td>Stevenson, Joseph, 1-18 cr</td>
<td>1-18 cr</td>
</tr>
<tr>
<td>4999 Senior Design Project II</td>
<td>Spring Science</td>
<td>Stevenson, Joseph, 1-18 cr</td>
<td>1-18 cr</td>
</tr>
</tbody>
</table>

### College of Education & Human Service Professions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>6010 Introduction to Elementary Education (A-F only; pre req Elementary education student)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6018 Diversity and Education Implications (A-F only; pre req Pre-IESE Candidate, 402)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6021 Diversity and Education Implications (A-F only; pre req Pre-IESE Candidate, 402)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6030 Foundations of Literacy and Language (A-F only; pre req Admission to the elementary education program, 303)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6031 Children’s Literature in the Elementary School (A-F only; pre req Pre-IESE, Sophomore standing, 101 and ECH 2025)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6032 Advanced Literary &amp; Language: Designing &amp; Implementing a Comprehensive Literacy Program (A-F only; pre req IESE Candidate, 303)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6033 Elementary Mathematics Methods I (A-F only; pre req IESE Candidate, 303)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6044 Teaching Science and Environmental Education I (A-F only; pre req IESE Candidate, 303, no Grad School credit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6045 Teaching Elementary Social Studies I (A-F only; pre req IESE Candidate, no Grad School credit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6047 Teaching Elementary Social Studies II (A-F only; pre req IESE Candidate, 303, no grad school credit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6060 Student Teaching</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6091 Independent Study</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Engineering (Eng)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2026 Dynamics (Credit will not be granted if credit has been received for: ME 2226; pre req 2015, Concurrent registration is required (or allowed) in Math 3206)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60271</td>
<td>001 LEC, 3 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Engineering Management (EngMgt)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>4110 Engineering Professionalism and Practice (Credit will not be granted if credit has been received for: IE 4155, ME 4155; A-F; pre req COMP 3130 or 3150 or 3180 and BSC or BSEE or BSIE or BSME candidate within 2 semesters of graduation, or instructor consent; no Grad School credit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>60271</td>
<td>001 LEC, 10:00am-10:50am T, VKH 221; Carrillo, Jose</td>
<td></td>
<td>2 cr</td>
</tr>
</tbody>
</table>
5120 Advanced Project Management  
(A-F; preq EMgt student or dept consent)

65010 820 THE; Arranged.; ;Abou PhD, Seraphin Chally, 1-18 cr
68000 821 THE; Arranged.; ;Zhou, Debao, 1-18 cr
68001 822 THE; Arranged.; ;Hoxie, Allison Bethrens, 1-18 cr

5995 Special Topics: (Various Titles to be
assigned)

8993 Engineering Management Seminar  
(max crs 2; S-N; preq Grad student, dept consent)

3223 Shakespeare  
(A-F only; meets LE req of LE CAT9)

3411 The Modern Short Story  
(A-F only; preq Min 60 cr (6 hr or lit) or instr consent)

3502 British Literature II  
(A-F only; preq Eng major and minor)

3564 American Literature II  
(A-F only)

3115 Writing Fiction  
(max crs 6; A-F; preq WRIT 1120, min 60 cr (6 hr or lit) or instr consent)

36674 001 LEC, 03:00-04:50pm TTh, SCiv 285, 4 cr

5661 Small Presses, Little Magazines, and  
Modernism  
(A-F only; preq Jr or sr or grad student or instr consent)

36679 001 LEC, 01:00-02:50pm MW, LSEB 165;  
Bock, Martin F, 4 cr

8181 Seminar in British Literature, Late 18th -  
20th Century  
(A-F only)

67818 001 SEM, 09:00am-10:50am MW, H 480;  
Sigler, Carolyn, 4 cr

This information is accurate as of: 11/3/2011
### ENVIRONMENTAL EDUCATION (EnEd)

#### College of Education & Human Service Professions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>8333</td>
<td>FTE: Master’s (NGA; prereq Master’s student, adviser and GDS consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63333</td>
<td>FTE: Doctoral (NGA; prereq doctoral student, adviser and GDS consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65006</td>
<td>0 01 DRS; Tuw, Krista Sue-Lo, 1 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8444</td>
<td>Thesis Credits: Doctoral (max crs 10; 10 repeats allowed; NGA; prereq [max 18 or per semester or summer]: [24 cr required])</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65134</td>
<td>0 01 TFE; Tuw, Krista Sue-Lo, 1-24 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8931</td>
<td>Practicum in Teaching Literature (max crs 4; A-F only; prereq II or grad-level literature or instructor consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63334</td>
<td>0 01 PRC; 4 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL STUDIES (ESci)

#### Swenson College of Science & Engineering

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>3102</td>
<td>Renewable Resources (A-F only; prereq 3101 or instr consent, Phys 2012)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65104</td>
<td>0 01LEC, 12:30pm-01:50pm TTh, MIWAH 191; Ferguson, Tom, 4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4102</td>
<td>Environmental Assessment (A-F only; prereq instr consent; no Grad School cr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65195</td>
<td>0 01LEC, 06:00pm-07:40pm MW, Engr 118; Baillance, Brett Alan, 4 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### EXERCISE SCIENCE ATHLETIC TRAINING (ESAi)

#### College of Education & Human Service Professions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2803</td>
<td>Issues in Global Ecology (A-F only; prereq Credit will not be granted if already received for REC 2003; meets LE req of LE CATS; meets LEIQ req of LE CATS05)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65641</td>
<td>0 01LEC, 02:00pm-03:40pm TTh, Engr 290; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education - EXPERI 10-12-2012; Mageau, Michael T, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3100</td>
<td>Sustainable Food Systems (A-F Only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69480</td>
<td>0 01LEC, 02:00pm-03:15pm TTh, Cina 316; Hanson PhD, Randel Dean, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4010</td>
<td>Environmental Studies Seminar (A-F; prereq ES major; 90 cr; no Grad School credit; credit will not be granted if already received for 5001)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63303</td>
<td>0 01LEC, 09:30am-11:10am TTh, Cina 316; Mageau, Michael T, 4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4090</td>
<td>Environmental Studies Internship Preparation (S-N; prereq ES major, no Grad School credit; credit will not be granted if already received for 5040)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63595</td>
<td>0 01LEC, 01:00pm-01:50pm TTh, Cina 316; Mageau, Michael T, 1 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4091</td>
<td>Independent Study (max crs 3; A-F; prereq 60 cr or instr consent; no Grad School credit)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63590</td>
<td>0 01IND; Mageau, Michael T, 1-3 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Spring 2012

This information is accurate as of: 11/3/2011
3640 Therapeutic Modalities
(A-F only; prereq 3600, athletic training major; credit will not be granted if already received for PEP 3640)
64008 001 LEC; 08:00am-08:50am MWF, SpHC 22; Gear Phd, William S, 3 cr

3698 Clinical Experiences in Athletic Training IV
(A-F only; prereq 3697, Athletic Training major)
63490 001 CLN; 09:30am-10:45am TTh, SpHC 22; Strevelier, Megan Jane, 2 cr

4001 Pharmacology in Athletic Training
(A-F only; prereq 3632, 3642, Athletic Training major; no Grad School cr; credit will not be granted if already received for PEP 5600)
64579 001 LEC; 10:00am-10:50am MW, SpHC 210; 2 cr

62831 001 CLN; Adams, Jeffrey L, 13 cr

68807 001 LEC, 1 cr

3600 Senior Seminar Athletic Training
(A-F only; prereq 4001, Athletic Training major, no Grad School cr; credit will not be granted if already received for PEP 5600)
63848 001 CLN; Adams, Jeffrey L; Westra, Ruth E, 2 cr

4010 Orthopedic Seminar
(A-F only; prereq 3698; no grad credit)
65300 001 SEM; 05:00pm-05:50pm M, SpHC 22; Gear Phd, William S; Harrington, Stephen Cur, 1 cr

4998 Clinical Experiences in Athletic Training VI
(A-F only; prereq 4697, Athletic Training major, no Grad School credit)
63510 001 CLN, 12:00pm-12:50pm TTh, SpHC 22; Strevelier, Megan Jane, 2 cr

4700 Statistics and Research Methods in Exercise Science
(A-F only; prereq 12 or from 3200, 3300, 3410, athletic training or exercise science candidate, no Grad School cr)
64968 001 LEC, 01:00pm-01:50pm MTWF, EduE 50; Fountaine, Charles, 4 cr

4710 Applied and Experimental Exercise Science
(A-F only; prereq 4700 or instr consent, exercise science cand, no Grad School cr)
63511 001 LEC, 02:00pm-03:05pm MW, SpHC 201; 02:00pm-03:05pm MW, SpHC 298; Levy, Morris, 4 cr

4999 Internship
(max hrs 12; 4 repeats allowed; S-N only; prereq 3420, exercise candidate, instr consent; no Grad School cr)
62778 001 IEX; Harkins, Kenneth J, 3-12 cr

FAMILY MEDICINE (FMed)
Medical School - Duluth Campus

5591 Independent Study
(max hrs 12, 12 repeats allowed; prereq Department consent)
63198 001 LAB; Adams, Jeffrey L, 1-8 cr

6122 Preceptorship
(P-N; prereq Regis med student)
65606 001 CLN; Boulier, James G, 4 cr

6442 Community Clinical Medicine
(P-N; prereq Grad School student)
62948 001 CLN; Adams, Jeffrey L; Westra, Ruth E, 2 cr

5601 Clinical Pathology Conferences I
(P-N; prereq Regis med student)
66605 001 CST; Johns, Alan M, 1 cr

5602 Clinical Pathology Conferences II
(P-N; prereq Regis med student)
62947 001 CST; Johns, Alan M, 1 cr

6897 Obstetrical Longitudinal Course
(A-F only; prereq Preregis med, instr consent, cannot be concurrently registered for FMed 6977)
68807 001 LEC, 1 cr

6997 Rural Academy of Leadership
(P-N; prereq Preregis med, instr consent)
64805 001 LEC; Westra, Ruth E, 1 cr

7100 Clinical Family Medicine
(max hrs 117; 9 repeats allowed; P-N only; prereq dept consent; no Grad School credit)
62831 001 CLN; Adams, Jeffrey L, 13 cr

FINANCE & MANAGEMENT INFORMATION (FMIS)
Labovitz School of Business & Economics

2201 Information Technology in Business
(Credit will not be granted if credit has been received for: CS 1011; A-F only; prereq LSBE student or College Information Systems majors, min 15 cr or college consent)
63754 001 LEC, 03:00pm-03:50pm MWF, MonH 70; (LSBE students); Meets with: 63755 FMIS 2201, 3 cr
63757 002 LEC, 03:00pm-03:50pm MWF, MonH 70; (Computer Information Systems majors); Meets with: 63754 FMIS 2201, 3 cr
63850 003 LEC, 11:00am-11:50am MW, LSBE 118; (LSBE students); Meets with: 63851 FMIS 2201, 3 cr
63851 004 LEC, 11:00am-11:50am MW, LSBE 118; (Computer Information Systems majors); Meets with: 63850 FMIS 2201, 3 cr

3414 Business Communications
(A-F only; prereq LSBE cand or Econ major or college consent)
62474 001 LEC, 09:00am-09:50am MW, LSBE 237; (Accounting candidates only); Meets with: 63046 FMIS 3141; Wang, Junhua, 3 cr
63004 002 LEC, 09:00am-09:50am MW, LSBE 237; Meets with: 62474 FMIS 3141; Wang, Junhua, 3 cr
62475 003 LEC, 11:00am-11:50am MW, LSBE 237; (LSBE candidates); Meets with: 63065 FMIS 3141; Andris, Abram Daniel, 3 cr
63005 004 LEC, 11:00am-11:50am MW, LSBE 237; (Economics majors); Meets with: 62475 FMIS 3141; Andris, Abram Daniel, 3 cr
63006 005 LEC, 02:00pm-02:50pm MW, LSBE 237; (LSBE candidates); Meets with: 63501 FMIS 3141; Andris, Abram Daniel, 3 cr
63001 006 LEC, 02:00pm-03:15pm MW, LSBE 237; (Economics majors); Meets with: 63500 FMIS 3141; Andris, Abram Daniel, 3 cr
63502 007 LEC, 11:00am-11:50am MW, LSBE 237; (LSBE candidates); Meets with: 63503 FMIS 3141; Wang, Junhua, 3 cr
63503 008 LEC, 11:00am-11:50am MW, LSBE 237; (Economics majors); Meets with: 63502 FMIS 3141; Wang, Junhua, 3 cr
63500 009 LEC, 01:00pm-01:50pm MW, LSBE 237; (LSBE candidates); Meets with: 63607 FMIS 3141; Wang, Junhua, 3 cr
63501 010 LEC, 01:00pm-01:50pm MW, LSBE 237; (Economics majors); Meets with: 63606 FMIS 3141; Wang, Junhua, 3 cr

3220 Database Management and Design
(A-F; prereq 2201 or CS 1121 or CS 1151, LSBE cand or college consent)
62915 001 LEC; 01:00pm-01:50pm TTh, LSBE 237; Li, Dahui, 3 cr

3222 Systems Analysis and Design
(A-F only; prereq 2201, LSBE cand or college)
62476 001 LEC; 03:00pm-04:15pm MW, LSBE 165, 3 cr

3224 Data Communications and Computer Networks
(A-F only; prereq 3201 or 2201 or CS 1121 or CS 1151, LSBE cand or college consent)
64044 001 LEC; 03:30pm-04:45pm TTh, LSBE 225, 3 cr

3232 Visual Web Programming
(A-F only; prereq 2201 or 3201, 3220 or concurrently, LSBE candidate or college consent)
63905 001 LEC; 10:00am-10:50am MW, LSBE 225; Lee, Seung Chan, 3 cr

3291 Independent Study MIS
(Credit will not be granted if credit has been received for: FMIS 3291; max hrs 3; 9 repeats allowed; A-F; prereq dept consent)
64534 001 IND; Wong, Shee Q, 1-3 cr
1108 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65950 001 LEC, 1-20 cr

1109 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65951 001 LEC, 1-20 cr

2200 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65952 001 LEC, 1-20 cr

2201 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65953 001 LEC, 1-20 cr

2202 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office)
65954 001 LEC, 1-20 cr

2203 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65955 001 LEC, 1-20 cr

2204 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65956 001 LEC, 1-20 cr

2205 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65957 001 LEC, 1-20 cr

2206 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65958 001 LEC, 1-20 cr

2207 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65959 001 LEC, 1-20 cr

2208 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65960 001 LEC, 1-20 cr

2209 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65961 001 LEC, 1-20 cr

3131 International Student Teaching
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65786 12/21/11-08/31/12; Sersha, James Paul, 1-20 cr

3300 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65962 001 LEC, 1-20 cr

3301 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65963 001 LEC, 1-20 cr

3302 International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65964 001 LEC, 1-20 cr

65965 001 LEC, 1-20 cr

65966 001 LEC, 1-20 cr

65967 001 LEC, 1-20 cr

65968 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65969 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65970 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65971 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65972 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65973 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65974 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65975 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65976 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65977 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65978 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65979 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65980 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65981 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65982 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65983 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65984 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65985 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65986 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65987 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65988 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65989 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65990 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65991 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65992 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65993 001 LEC, 1-20 cr

International Education
(max crs 20; prereq Admission to an approved study abroad program requires consent from the International Education Office.)
65994 001 LEC, 1-20 cr

This information is accurate as of: 11/3/2011
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>French Cinema</td>
<td>3</td>
<td>(A-F only; meets LE req of LE CAT8; meets LEIP req of LEIP CAT08)</td>
</tr>
<tr>
<td>63220 06/00-06/09:30pm Th, H 449; (Open CE reserved seats will be available to UMD students one week before the start of the semester.)</td>
<td>3</td>
<td>5 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Kovacovic, Milan, 4 cr</td>
</tr>
<tr>
<td>35191 Independent Study</td>
<td></td>
<td>(max crs 8; 8 repeats allowed; A-F only; pre req 2301 with grade of C or better, instr consent)</td>
</tr>
<tr>
<td>64850 12/21/11-08/31/12; Vaidyanathan, Haroux, Marilene, 4 cr</td>
<td>3</td>
<td>1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Carlson MS, Kate, 3 cr</td>
</tr>
<tr>
<td>3905 Autobiography in French Literature and Cinema</td>
<td>A-F</td>
<td>(pre req 2301 or instr consent)</td>
</tr>
<tr>
<td>63991 09:30am-10:45am TTh, SCC 120; Clough, Nathan L, 4 cr</td>
<td>3</td>
<td>1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
</tr>
<tr>
<td>1304 Human Geography</td>
<td>A-F</td>
<td>(meets LE req of LE CAT16; meets LECD req of LECD CAT08)</td>
</tr>
<tr>
<td>63150 09:00am-09:50am MW, Morel 203; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Pine, Adam Marc, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4114 Physical Geography</td>
<td>A-F</td>
<td>(meets LE req of LE CAT8)</td>
</tr>
<tr>
<td>63931 09:00am-10:45am TTh, SCC 120; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2306 Environmental Conservation</td>
<td>A-F</td>
<td>(meets LE req of LE CAT8)</td>
</tr>
<tr>
<td>65515 08/00-08/15am Th, Cina 316; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2360 Geography of Religion</td>
<td></td>
<td>(A-F only; meets LE req of LE CAT7; meets LEIP req of LEIP CAT07)</td>
</tr>
<tr>
<td>64707 09:00am-09:20pm Wm, Cina 308, 01/ 18/2012-02/12, 06:00pm-09:20pm Wm, Cina 308, 02/15/2012-02/10/12, 06:00pm-09:20pm Wm, Cina 308, 03/21/12-03/10/12, 06:00pm-09:20pm Wm, Cina 308, 04/18/2012-04/18/12, 06:00pm-09:20pm Wm, Cina 308, 05/01/2012-05/01/12; 2 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Carlson MS, Kate, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2552 Introduction to Maps and Geospatial Information</td>
<td>A-F</td>
<td>(meets LE req of LE CAT2)</td>
</tr>
<tr>
<td>63361 09/00-09:50am 15am TTH, Morel 203; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Carlson MS, Kate, 3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4301 Weather and Climate</td>
<td>A-F</td>
<td>(pre req 1414, 30 cr or instr consent)</td>
</tr>
<tr>
<td>65516 01/2000-02:50pm 05am MW, Cina 106; Farrell, Pat, 3 cr</td>
<td>3</td>
<td>1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
</tr>
<tr>
<td>3563 Geographic Information Science I: Theory and Analysis</td>
<td>A-F</td>
<td>(pre req 2552; credit will not be granted if already received for 4563 and 4564.)</td>
</tr>
<tr>
<td>65609 09:00am-10:45am TTh, Cina 106; Hanson PhD, Randel Dean, 3 cr</td>
<td>3</td>
<td>5 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
</tr>
<tr>
<td>3564 Geographic Information Science II: Applied GIS</td>
<td>A-F</td>
<td>(pre req 3563; credit will not be granted if already received for 4563 and 4564.)</td>
</tr>
<tr>
<td>65689 01/2000-09:15am MW, H 458; Charleux, Laure, 3 cr</td>
<td>3</td>
<td>6 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
</tr>
<tr>
<td>3585 Spatial Statistics &amp; Analytical Methods</td>
<td>A-F</td>
<td>(pre req 3563 and STAT 1411)</td>
</tr>
<tr>
<td>65709 01/2000-09:15am MW, H 458; Charleux, Laure, 4 cr</td>
<td>3</td>
<td>5 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Charleux, Laure, 4 cr</td>
</tr>
<tr>
<td>3712 Geography of Latin America</td>
<td>A-F</td>
<td>(pre req Min 30 or 5 cr or instr consent)</td>
</tr>
<tr>
<td>65716 09/00-09:15am MW, Cina 106; Farrell, Pat, 3 cr</td>
<td>3</td>
<td>1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Hartley, Susan R, 3 cr</td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
3991 Independent Study in Geography (max crs 6; repeats allowed; A-F; prereq instr consent)
6230 001 IND; Kuhlke, Olaf, 1-4 cr
3997 Internship in Geography (A-F; prereq Min 75 cr or 6 cr Geog or instr consent)
62807 001 IEK; Kuhlke, Olaf, 1-8 cr
4393 Political Geography (A-F; prereq Min 75 cr or 6 cr Geog or instr consent)
69165 001 LEC, 03:30pm-05:10pm TTh, Cina 316; Clough, Nathan L, 4 cr
65235 096 LEC, 4 cr
5571 Geographic Information Science in Urban Analysis (max crs 8; A-F only; prereq 3563 or 4563 or instr consent)
68018 090 LEC, 06:00pm-08:30pm M, H 458; (Open CE reserved seats will be available to UMD students one week before the start of the semester); 3 seats reserved for Continuing Education - EXPERIES 10-JAN-2012; 4 seats reserved for UMD students one week before the start of the semester; 1 seat reserved for Continuing Education - EXPERIES 10-JAN-2012, 4 cr
1130 Introduction to Environmental Science (A-F; meets LE req of LE CAT 4; meets LEIP req of LEIP CAT 0104)
62616 002 LAB, 11:00am-12:50pm T, Chem 207; (Open CE reserved seats will be available to UMD students one week before the start of the semester); 1 seat reserved for Continuing Education - EXPERIES 10-JAN-2012, 4 cr
4110 Advanced Earth Science for Teachers (A-F only; prereq Min 1150 or 2120 or 3210; AST 1040, EDSE 3204, teaching science majors or grad student or instr consent; no grad credit)
63004 001 LEC, 03:00pm-04:50pm W, HH 120; Miller, Jim, 2 cr
4180 Teaching Assistant Experience II (max crs 4; S-N; prereq Geol core, geological sciences major, instr consent; max crs can be applied toward geological sciences major; no Grad cr)
64244 001 IND, 1-2 cr
4360 Geologic, Geophysical, and Geochemical Methods of Exploration (A-F only; prereq 4350, Math 1290 or 1296, Phys 2012 or instr consent)
67533 001 LEC, 01:00pm-01:50pm T, Chem 207, 10:00am-10:50am M, Chem 207, Hudak III PhD, George Julius
4450 Structural Geology (A-F only; prereq 2312 or instr consent; credit will not be granted if already received for 3520)
65138 004 IND; Morton, Ron L, 1-2 cr
65139 012 DRS; Swenson, John B, 1-2 cr
65140 013 DRS; Wattrus, Nigel James, 1-2 cr
65141 013 DRS; Wattrus, Nigel James, 1-2 cr
65142 001 IND; Brown, Erik Thorson, 1-2 cr
65143 004 IND; Goodge, John William, 1-2 cr
65144 003 IND; Gallup, Christina D, 1-2 cr
65145 005 IND; Gran, Karen B, 1-2 cr
65146 006 IND; Hansen, Vicki L, 1-2 cr
65147 007 IND; Johnson, Thomas Charles, 1-2 cr
65148 008 IND; Miller, Jim, 1-2 cr
65150 010 IND; Morton, Penelope, 1-2 cr
65151 011 IND; Morton, Ron L, 1-2 cr
65152 012 IND; Swenson, John B, 1-2 cr
65155 015 IND; Rausch, Deborah E, 1-2 cr
65156 016 IND; Swenson, John B, 1-2 cr
65157 017 IND; Wattrus, Nigel James, 1-2 cr
65158 018 IND; Wattrus, Nigel James, 1-2 cr
5220 Advances in Paleoclimatology (A-F only; prereq instr consent)
64336 001 LEC, 08:00am-10:15am TTh, Chem 155, 3 cr
5251 Well Hydraulics (A-F only; prereq 2312, Phys 2011, [Math 1290 or Math 1296] or grad student or instr consent)
64900 001 LEC, 08:00am-08:50am MWF, HH 216; Swenson, John B; Mooers, Howard D, 3 cr
5321 Theory, Practice of Scanning Electron Microscopy and X-Ray Microanalysis in Lectures (A-F only; prereq Min 75 cr, Chem 1152, Phys 2012, or Grad student or instr consent)
65161 001 LEC, 09:00am-10:50am M, MWAH 55; Bandi, Bryan Robert
Intermediate German I (A-F only; prereq 3-4 yrs high school Ger or 1102 or instr consent; meets LE req of LE CAT3)

Intermediate German II (A-F only; prereq 4 yrs high school Ger or 1201 or instr consent; meets LE req of LE CAT3; meets LEIP req of GSP CAT3)

Advanced Composition and Conversation (A-F only; prereq 2301 with a grade of C or higher or equiv or instr consent)

Graduate School (Grad) UMD-Academic Affairs

Health and Wellness Strategies for Life (A-F only; meets LE req of LE CAT8)

Health Science Terminology

Health (Hlth) College of Education & Human Service Professions

Health Science Terminology (max crs 3; 3 repeats allowed; A-F only)

GERMAN (Ger) College of Liberal Arts

Beginning German I (A-F only; prereq 1-2 yrs high school Ger or 1101 or instr consent; meets LE req of LE CAT3)

Beginning German II (A-F only; prereq 1-2 yrs high school Ger or 1101 or instr consent; meets LE req of LE CAT3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Days and Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>3301</td>
<td>Foundations of Health Education and Promotion</td>
<td>(A-F only; prereq 1100, health ed or instr consent)</td>
<td>3</td>
<td>62315 001 LEC, 02:00pm-02:50pm T Th, SCC 120; Skrbich, Karen O, 3 cr</td>
</tr>
<tr>
<td>3302</td>
<td>School Health Education Methods and Materials</td>
<td>(A-F only; prereq 3301, health ed or instr consent)</td>
<td>3</td>
<td>63154 001 LEC, 01:00pm-01:50pm MWF, SpHC 208; Keeney, Georgia Lynn, 3 cr</td>
</tr>
<tr>
<td>3303</td>
<td>Health Education and Promotion Program</td>
<td>(Credit will not be granted if credit has been received for: HLTH 3450; A-F only; prereq Concurrent registration is required or allowed in 3301, health ed or instr consent)</td>
<td>3</td>
<td>64301 001 LEC, 01:00pm-01:50pm MWF, SpHC 212; Versnik Nowak, Amy L, 3 cr</td>
</tr>
<tr>
<td>3305</td>
<td>Community Health Methods and Strategies</td>
<td>(A-F only; prereq 3301, 3303, health ed or instr consent)</td>
<td>3</td>
<td>65512 001 LEC, 02:00pm-03:50pm MW, SpHC 212; Versnik Nowak, Amy L, 3 cr</td>
</tr>
<tr>
<td>3307</td>
<td>Conducting and Managing Worksite Health Promotion Programs</td>
<td>(A-F only; prereq 3303 or Concurrent registration is required or allowed in 3303 or exercise science major or instr consent)</td>
<td>3</td>
<td>64994 001 LEC, 09:00am-09:50am MW, SpHC 8; Skrbich, Karen O, 3 cr</td>
</tr>
<tr>
<td>3341</td>
<td>Death Education</td>
<td>(A-F only; prereq credit will not be granted if already received for 5341)</td>
<td>3</td>
<td>64591 001 LEC, 03:00pm-05:00pm Th, SpHC 207; Doane PhD, H Mitzi, 3 cr</td>
</tr>
<tr>
<td>3991</td>
<td>Independent Study</td>
<td>(max crs 6; 6 repeats allowed; A-F only; prereq instr consent)</td>
<td>3</td>
<td>62273 001 IND; Tomabene, Lodona L, 1-6 cr</td>
</tr>
<tr>
<td>3992</td>
<td>Readings in Health</td>
<td>(max crs 4; A-F only; prereq instr consent)</td>
<td>3</td>
<td>60002 001 DRD; Doane PhD, H Mitzi, 1-4 cr</td>
</tr>
</tbody>
</table>

**Health, Physical Education and Recreation (HPER)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Days and Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>3200</td>
<td>College of Education &amp; Human Service Professions</td>
<td>(A-F only; prereq Min 60 cr, Health ed major or minor or rec major or instr consent)</td>
<td>3</td>
<td>62814 001 LEC, 02:00pm-03:15pm Th, SpHC 210; Ernst, Julie Ann, 3 cr</td>
</tr>
<tr>
<td>3300</td>
<td>Health and Physical Education in the Elementary School</td>
<td>(A-F only; prereq ELEd Major)</td>
<td>3</td>
<td>65364 001 LEC, 12:00pm-01:50pm Th, SpHC 150A, 12:00pm-01:50pm Th, TBA; This course runs the full semester but instruction is split between classroom instruction and online instruction. This section will meet in SpHC 210 on the first day; Skrbich, Karen O; Knapp, Jim L, 3 cr</td>
</tr>
<tr>
<td>3999</td>
<td>Internship</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7, meets LEIP req of LEIP CAT07)</td>
<td>3</td>
<td>64989 001 LEC, 03:30pm-04:45pm Th, H 314, 3 cr</td>
</tr>
</tbody>
</table>

**History (Hist)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Days and Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>1208</td>
<td>Europe in the Modern Age</td>
<td>(A-F only; meets LE req of LE CAT7)</td>
<td>3</td>
<td>64732 001 LEC, 12:00pm-12:50pm MWF, MonH 70; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Pogorelskin, Alexis E, 3 cr</td>
</tr>
<tr>
<td>1304</td>
<td>US History Part I: 1607-1877</td>
<td>(A-F only; meets LE req of LE CAT7)</td>
<td>3</td>
<td>65264 001 LEC, 03:00pm-03:50pm MWF, ABAB 225; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Miller, William Kevin, 3 cr</td>
</tr>
<tr>
<td>1305</td>
<td>US History Part II: 1865-Present</td>
<td>(A-F only; meets LE req of LE CAT7)</td>
<td>3</td>
<td>63854 001 LEC, 10:00am-10:50am MWF, ABAB 225; (Open CE Reserve seats will be available to UMD students one week before the start of the semester, 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; 3 cr</td>
</tr>
<tr>
<td>2355</td>
<td>United States Military History</td>
<td>(A-F only; meets LE req of LE CAT7)</td>
<td>3</td>
<td>69911 002 LEC, 03:30pm-04:45pm Th, H 314, 3 cr</td>
</tr>
<tr>
<td>2365</td>
<td>Russia in the 20th Century</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7)</td>
<td>3</td>
<td>64368 001 LEC, 10:00am-10:50am MWF, ABAB 225; (Open CE Reserve seats will be available to UMD students 01/10/2012); 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Pogorelskin, Alexis E, 3 cr</td>
</tr>
<tr>
<td>2410</td>
<td>Modern China, Japan, Korea, Vietnam and East Asia</td>
<td>(A-F only; meets LE req of LE CAT7)</td>
<td>3</td>
<td>69912 001 LEC, 08:00am-09:15am Th, Sciv 265, 3 cr</td>
</tr>
<tr>
<td>3038</td>
<td>History of Christianity: Origins to 1054</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7)</td>
<td>3</td>
<td>67498 001 LEC, 03:30pm-04:45pm Th, ABAB 225; Fang, Qiang, 3 cr</td>
</tr>
<tr>
<td>3091</td>
<td>Directed Readings in History</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7)</td>
<td>3</td>
<td>62344 001 DRD; Matthews, Steve, 1-4 cr</td>
</tr>
<tr>
<td>3097</td>
<td>Internship in History</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7)</td>
<td>3</td>
<td>62343 001 IEX; Matthews, Steve, 1-3 cr</td>
</tr>
<tr>
<td>3099</td>
<td>Practicum in Teaching History</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 2225; meets LE req of LE CAT7)</td>
<td>3</td>
<td>63966 001 PRC; Matthews, Steve, 3 cr</td>
</tr>
<tr>
<td>3107</td>
<td>The World of Late Antiquity: From Constantine to Justinian</td>
<td>(A-F only; prereq credit will not be granted if already received for HIST 3007 or Hist 3007)</td>
<td>3</td>
<td>67488 001 LEC, 02:00pm-03:15pm Th, Chem 150; Marchese, Ron T, 3 cr</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Credits</td>
<td>Time/Location</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>------------</td>
<td>---------</td>
<td>----------------</td>
</tr>
<tr>
<td>63981</td>
<td>1001 IND: 1-5 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4001</td>
<td>Specialized Reporting and Writing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64991</td>
<td>0101 LEC: 03:30pm-04:45pm TTh, H484: Topic The Literature of Journalism, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4102</td>
<td>Editing II: Newsroom Practicum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64986</td>
<td>0101 LEC, 02:00pm-03:15pm TTh, H484; Meets with: 64987 JOUR 5102, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4197</td>
<td>Journalism Internship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65040</td>
<td>0101 IEX, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5102</td>
<td>Editing II: Newsroom Practicum</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64987</td>
<td>0101 LEC, 02:00pm-03:15pm TTh, H484; Meets with: 64987 JOUR 5102, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5197</td>
<td>Journalism Internship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63983</td>
<td>0101 IEX; Visit <a href="http://www.d.umn.edu/writ">www.d.umn.edu/writ</a> for more information about how to get started on an internship, or contact the internship Coordinator in Writing Studies., 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3991</td>
<td>Independent Study in Journalism</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63818</td>
<td>0101 IND, 1-5 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8591</td>
<td>Sociolinguistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63989</td>
<td>0101 LEC, 09:00am-09:50am MWF, LSB 265; 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3591</td>
<td>Independent Study in Linguistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63838</td>
<td>0101 IND, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4400</td>
<td>Sociology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64764</td>
<td>0101 LEC, 09:30am-10:45am TTh, Library 409; Meets with: 64765 LING 5400, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4852</td>
<td>Teaching Assistantship in Linguistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63501</td>
<td>0101 PRC, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5400</td>
<td>Sociology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64765</td>
<td>0101 LEC, 09:30am-10:45am TTh, Library 409; Meets with: 64764 LING 4400, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5852</td>
<td>Practicum in Teaching Linguistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62576</td>
<td>0101 PRC, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8591</td>
<td>Independent Study in Linguistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62577</td>
<td>0101 IND, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3401</td>
<td>Organizational Behavior and Management</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62560</td>
<td>0101 LEC, 09:00am-09:50am MWF, LSB 129; (LSBE candidates); Meets with: 63069 MGTS 3401, Pierce, Jon L, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63069</td>
<td>0101 LEC, 09:00am-09:50am MWF, LSB 129; (Non-LSBE Bus Adm minors); Meets with: 62560 MGTS 3401, Pierce, Jon L, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62591</td>
<td>0001 IEX; 01:00pm-03:05pm MWF, LSB 125; (LSBE candidates); Meets with: 63070 MGTS 3401, Pierce, Jon L, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63070</td>
<td>0001 IEX; 01:00pm-03:05pm MWF, LSB 125; (Non-LSBE Bus Adm minors); Meets with: 62561 MGTS 3401, Pierce, Jon L, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62952</td>
<td>0001 IEX; 12:30pm-01:45pm TTh, LSB 135; (LSBE candidates); Meets with: 63071 MGTS 3401, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63071</td>
<td>0001 IEX; 12:30pm-01:45pm TTh, LSB 135; (Non-LSBE Bus Adm minors); Meets with: 62562 MGTS 3401, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63515</td>
<td>0001 IEX; 06:00pm-08:40pm W, LSB 135; (LSBE candidates); Meets with: 63516 MGTS 3401, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63516</td>
<td>0001 IEX; 06:00pm-08:40pm W, LSB 135; (Non-LSBE Bus Adm minors); Meets with: 63515 MGTS 3401, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63703</td>
<td>0001 IEX; 06:00pm-08:40pm W, LSB 135; (Non-LSBE Bus Adm minors); Meets with: 67304 MGTS 3401, Hoogenakker, Marisa Marceau, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>67304</td>
<td>0101 IEX; 06:00pm-08:40pm W, LSB 135; (Non-LSBE Bus Adm minors); Meets with: 67303 MGTS 3401, Hoogenakker, Marisa Marceau, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3491</td>
<td>Independent Study</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62689</td>
<td>0101 IND, 1-3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3497</td>
<td>Organizational Management Internship</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64001</td>
<td>0101 IEX; Kaas, Duane A, 3 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MARKETING (MKTG)
Lobatz School of Business & Economics

3701 Principles of Marketing
(A-F; prereq Mktg 3701 or Mktg 3701, LSBE cand or college consent)
62550 001 LEC, 12:00pm-12:50pm M, LSBE 135;
(DSBE candidates); Meets with: 63065 MKTG 3701;
Kratz, John L, 3 cr
63911 003LEC, 12:00pm-12:50pm TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63601 MKTG 3701; Shankey, Steve, 3 cr
63912 004LEC, 10:00am-10:50am TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63911 MKTG 3701; Maamoun, Ahmed F., 3 cr
62551 005LEC, 11:00am-11:50am MWF, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63072 MKTG 3701; Kratz, John L, 3 cr
63073 006LEC, 11:00am-11:50am MWF, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63602 MKTG 3701; Kratz, John L, 3 cr
63001 007LEC, 06:00pm-08:40pm M, LSBE 135;
(LSBE candidates); Meets with: 63062 MKTG 3701;
Sharkey, Steve, 3 cr
63902 008LEC, 06:00pm-08:40pm M, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63601 MKTG 3701; Shankey, Steve, 3 cr

3711 Marketing Research
(A-F; prereq MgtS 3701 or Mktg 3701, 1 other Mktg course, 90 cr,)
62558 001 LEC, 09:00am-10:45am TTh, LSBE 225;
(Non-LSBE Bus Administration minor); Meets with:
63597 MKTG 3701; Xiu, Lin, 3 cr
63074 002 LEC, 12:00pm-12:50pm TTh, LSBE 225;
(Non-LSBE Bus Administration minor); Meets with:
63597 MKTG 3701; Xiu, Lin, 3 cr
65073 003 LEC, 01:00pm-01:50pm MWF, LSBE 225;
(LSBE candidates); Meets with: 63911 MKTG 3701;
Kratz, John L, 3 cr
63921 004LEC, 09:00am-10:45am TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63601 MKTG 3701; Kratz, John L, 3 cr
63001 MKTG 3701; Nienaber, Mary Kristine, 3 cr
63917 005LEC, 09:00am-10:45am TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63916 MKTG 3701; Nienaber, Mary Kristine, 3 cr
63911 MKTG 3701; Meets with: 63465 MKTG 3701;
Xiu, Lin, 3 cr
63916 MKTG 3701; Meets with: 63464 MKTG 3701;
Xiu, Lin, 3 cr
63464 006LEC, 12:00pm-12:50pm MWF, LSBE 135;
(LSBE candidates); Meets with: 63465 MKTG 3701;
Xiu, Lin, 3 cr
63196 007LEC, 09:00am-09:50am M, LSBE 225;
(Consent); (A-F only; prereq LSBE cand or college consent)
63921 MKTG 3701; Meets with: 63916 MKTG 3701;
Xiu, Lin, 3 cr

3712 Marketing Plan
(A-F; prereq MgtS 3701 or Mktg 3701, LSBE cand or college consent)
62558 001 LEC, 09:00am-10:45am TTh, LSBE 225;
(Non-LSBE Bus Administration minor); Meets with:
63597 MKTG 3701; Xiu, Lin, 3 cr
63074 002 LEC, 12:00pm-12:50pm TTh, LSBE 225;
(Non-LSBE Bus Administration minor); Meets with:
63597 MKTG 3701; Xiu, Lin, 3 cr
65073 003 LEC, 01:00pm-01:50pm MWF, LSBE 225;
(LSBE candidates); Meets with: 63911 MKTG 3701;
Kratz, John L, 3 cr
63921 004LEC, 09:00am-10:45am TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63601 MKTG 3701; Kratz, John L, 3 cr
63001 MKTG 3701; Nienaber, Mary Kristine, 3 cr
63917 005LEC, 09:00am-10:45am TTh, LSBE 135;
(Non-LSBE Bus Administration minor); Meets with:
63916 MKTG 3701; Nienaber, Mary Kristine, 3 cr
63911 MKTG 3701; Meets with: 63465 MKTG 3701;
Xiu, Lin, 3 cr
63916 MKTG 3701; Meets with: 63464 MKTG 3701;
Xiu, Lin, 3 cr
63464 006LEC, 12:00pm-12:50pm MWF, LSBE 135;
(LSBE candidates); Meets with: 63465 MKTG 3701;
Xiu, Lin, 3 cr
63196 007LEC, 09:00am-09:50am M, LSBE 225;
(Consent); (A-F only; prereq LSBE cand or college consent)
63921 MKTG 3701; Meets with: 63916 MKTG 3701;
Xiu, Lin, 3 cr
### University of Minnesota - Class Schedule for Duluth Campus Spring 2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>4001</td>
<td>College Algebra</td>
<td></td>
<td>3 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 17</td>
</tr>
<tr>
<td>4002</td>
<td>Calculus I</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 51</td>
</tr>
<tr>
<td>4003</td>
<td>Calculus II</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>2:00pm-3:50pm</td>
<td>EduE 50</td>
</tr>
<tr>
<td>4004</td>
<td>Calculus III</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
<tr>
<td>4005</td>
<td>Calculus IV</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 36</td>
</tr>
<tr>
<td>4006</td>
<td>Calculus V</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
<tr>
<td>4007</td>
<td>Calculus VI</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 36</td>
</tr>
<tr>
<td>4008</td>
<td>Calculus VII</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
<tr>
<td>4009</td>
<td>Calculus VIII</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 36</td>
</tr>
<tr>
<td>4010</td>
<td>Calculus IX</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
<tr>
<td>4011</td>
<td>Calculus X</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 36</td>
</tr>
<tr>
<td>4012</td>
<td>Calculus XI</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
<tr>
<td>4013</td>
<td>Calculus XII</td>
<td></td>
<td>4 cr</td>
<td>MWThF</td>
<td>10:00am-11:50am</td>
<td>EduE 36</td>
</tr>
<tr>
<td>4014</td>
<td>Calculus XIII</td>
<td></td>
<td>5 cr</td>
<td>MWThF</td>
<td>12:00pm-1:50pm</td>
<td>EduE 32</td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>62935 006 IEX</td>
<td>Calculus II</td>
<td>James, Barry R</td>
<td>1-3 cr</td>
<td>12:00pm-12:50pm MTWThF</td>
<td>ABAH</td>
</tr>
<tr>
<td>62934 005 IEX</td>
<td>Calculus II</td>
<td>Greene, John Robert</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>Chem 150</td>
</tr>
<tr>
<td>62932 002 IEX</td>
<td>Calculus II</td>
<td>Froncek, Dalibor</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>ABAH</td>
</tr>
<tr>
<td>62930 015 IND</td>
<td>Linear Algebra</td>
<td>Stech, Harlan W</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>SCC 21</td>
</tr>
<tr>
<td>62929 014 IND</td>
<td>Linear Algebra</td>
<td>Regal, Ronald Ray</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>SCC 21</td>
</tr>
<tr>
<td>62928 013 IND</td>
<td>Linear Algebra</td>
<td>Qi, Yongcheng</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>SCC 21</td>
</tr>
<tr>
<td>62918 003 IND</td>
<td>Linear Algebra</td>
<td>Gallian, Joseph A</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>SCC 21</td>
</tr>
<tr>
<td>62917 002 IND</td>
<td>Linear Algebra</td>
<td>Froncek, Dalibor</td>
<td>1-3 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>SCC 21</td>
</tr>
<tr>
<td>62910 003 LEC</td>
<td>Calculus II</td>
<td>Pierson, Chad Michael</td>
<td>1 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>EduE 50</td>
</tr>
<tr>
<td>62909 002 LEC</td>
<td>Calculus II</td>
<td>Pierson, Chad Michael</td>
<td>1 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>EduE 50</td>
</tr>
<tr>
<td>62908 001 LEC</td>
<td>Calculus II</td>
<td>Pierson, Chad Michael</td>
<td>1 cr</td>
<td>10:00am-10:50am MTWThF</td>
<td>EduE 50</td>
</tr>
</tbody>
</table>

---

**Mathematics Major Requirements**

- **Calculus Series** (9 credits)
  - Calculus I (5 credits)
  - Calculus II (5 credits)
  - Calculus III (5 credits)

- **Linear Algebra** (3 credits)
- **Discrete Mathematics** (3 credits)
- **Abstract Algebra** (3 credits)
- **Algebraic Structures** (3 credits)
- **Real Analysis** (3 credits)
- **Complex Variables** (3 credits)

**Electives** (15 credits)

- **Probability and Statistics** (3 credits)
- **Numerical Analysis** (3 credits)
- **Differential Equations** (3 credits)
- **Optimization** (3 credits)

**Total Credits:** 39

---

**Notes:**

- **Credit:** Credit will not be granted if credit has been received for MATH 1297.
- **Prerequisites:** A grade of C- or better in is required in all prerequisite courses.
- **Satisfactory/Unsatisfactory:** Students may elect to take courses for S-N only. This policy requires a passing grade (C- or better).
- **Graduate Students:** Graduate students must consult with the Mathematics Department to determine the prerequisites for courses.

---

**Contact Information:**

For more information, please contact the Mathematics Department at (612) 624-4483.
### University of Minnesota - Class Schedule for Duluth Campus Spring 2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>64497</td>
<td>005 LAB; 08:00am-09:50am Th, VHK 162</td>
<td>Zhou, Debao</td>
<td>2 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64488</td>
<td>006 LAB; 2 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3230</td>
<td>Kinematics and Mechanotrics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64503</td>
<td>002 LEC; 09:00am-09:50am MWF, Engr 177</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64114</td>
<td>Heat and Mass Transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64101</td>
<td>001 LEC; 01:00pm-01:50pm MWF, BohH 112</td>
<td>Pope, Daniel</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>64122</td>
<td>Heat Transfer, Thermodynamics and Fluid Mechanics Laboratory</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63888</td>
<td>002 LAB; 08:00am-09:50am Th, VHK 168</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64008</td>
<td>003 LAB; 01:00pm-02:50pm T, VHK 168</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65035</td>
<td>005 LAB; 01:00pm-02:50 Th, VHK 168</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64145</td>
<td>CAD/CAM (A-F; only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64102</td>
<td>001 LEC; 11:00am-11:50 MWF, Engr 177</td>
<td>Gremering, Michael Allen</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4196</td>
<td>Cooperative Education (Credit will not be granted if credit has been received for IE 4154)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63890</td>
<td>001 IEC, Robertson PhD, Ryan G, 1 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4255</td>
<td>Multidisciplinary Senior Design (Credit will not be granted if credit has been received for IE 4255)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4491</td>
<td>Independent Study in Mechanical Engineering (max crs 4; 4 repeats allowed; prereq Sr standing in engineering discipline, instructor consent)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5305</td>
<td>Computational Fluid Dynamics (A-F; only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5315</td>
<td>Nondestructive Evaluation of Engineering Materials (A-F; only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Medical And Molecular Physiology (Phs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>64899</td>
<td>001 LEC; Clarke, Benjamin L, 3 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5555</td>
<td>Molecular Pathogenesis: Current Concepts (A-F; only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63496</td>
<td>001 LEC, 12/21/11-08/31/12; Clarke, Benjamin L, 3 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8333</td>
<td>FTE: Master’s (NGA; preq Master s student, adviser and DGS consent)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8444</td>
<td>FTE: Doctoral (NGA; preq Doctoral student, adviser and DGS consent)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Medical Microbiology and Immunology (MicB)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>64899</td>
<td>001 LEC; Clarke, Benjamin L, 3 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5555</td>
<td>Molecular Pathogenesis: Current Concepts (A-F; only)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>63496</td>
<td>001 LEC, 12/21/11-08/31/12; Clarke, Benjamin L, 3 cr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8333</td>
<td>FTE: Master’s (NGA; preq Master s student, adviser and DGS consent)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8444</td>
<td>FTE: Doctoral (NGA; preq Doctoral student, adviser and DGS consent)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>601 Basic Science I (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
<td>6 cr</td>
</tr>
<tr>
<td>62906 001 LEC: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>62836 001 LEC: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>691 Independent Study (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>62935 001 IND: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>693 Directed Study (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>62909 001 DST, 0 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>694 Research (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>62838 001 DRS, 0 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3998 Human Biology and Behavior Topics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6023 Seminars in Indian Health (max 3 cr; P-N only; preq: 2nd year med student)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>62840 001 LEC: Second year med students only; Dorsch, JoyceAnn, 1-2 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6531 Rural Family Medicine II - Native American and Minority Medical Scholars Program (P-N: preq Medical Student)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>65675 001 IND: Christensen MD, Raymond G, 4 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6573 Neurological Medicine (P-N: preq Regis med student or instr consent)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>61373 001 LEC: Forbes PhD, Donna J, 11 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6724 Gastrointestinal Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>63308 001 LEC: Keller PhD, Lois Jane, 6 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6762 Hormonal and Reproductive Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>62944 001 LEC: Krafts MD, Kristine Pauline, 5 cr</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6788 Skin/Musculoskeletal System (P-N: preq Regis med student)</td>
<td></td>
<td></td>
<td>0 cr</td>
</tr>
<tr>
<td>65617 001 LEC: Repesh, Lillian A, 5 cr; O-N only</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### University of Minnesota - Class Schedule for Duluth Campus

#### Spring 2012

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>8777 Thesis Credits: Master's (max crs 50; 10 repeats allowed; NGA; preq Max 18 cr per semester or summer; 10 cr total required [Plan A only])</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63127 001 THE: Ziegler, Richard J, 1-18 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8888 Thesis Credits: Doctoral (max crs 100; 10 repeats allowed; NGA; preq Max 18 cr per semester or summer; 24 cr total applied study, department consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63137 001 THE: Ziegler, Richard J, 1-24 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MEDICINE (Med)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Medical School - Duluth Campus</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>601 Basic Science I (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
</tr>
<tr>
<td>62906 001 LEC: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62836 001 LEC: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>691 Independent Study (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
</tr>
<tr>
<td>62935 001 IND: Westra, Ruth E. 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>693 Directed Study (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
</tr>
<tr>
<td>62909 001 DST, 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>694 Research (P-N only)</td>
<td>preq: Regis Med Student</td>
<td></td>
</tr>
<tr>
<td>62838 001 DRS, 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Human Biology and Behavior Topics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6023 Seminars in Indian Health (max 3 cr; P-N only; preq: 2nd year med student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62840 001 LEC: Second year med students only; Dorsch, JoyceAnn, 1-2 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6531 Rural Family Medicine II - Native American and Minority Medical Scholars Program (P-N: preq Medical Student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65675 001 IND: Christensen MD, Raymond G, 4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6573 Neurological Medicine (P-N: preq Regis med student or instr consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>61373 001 LEC: Forbes PhD, Donna J, 11 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6724 Gastrointestinal Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63308 001 LEC: Keller PhD, Lois Jane, 6 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6762 Hormonal and Reproductive Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62944 001 LEC: Krafts MD, Kristine Pauline, 5 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6531 Rural Family Medicine II - Native American and Minority Medical Scholars Program (P-N: preq Medical Student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65675 001 IND: Christensen MD, Raymond G, 4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6573 Neurological Medicine (P-N: preq Regis med student or instr consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>61373 001 LEC: Forbes PhD, Donna J, 11 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6724 Gastrointestinal Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63308 001 LEC: Keller PhD, Lois Jane, 6 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6762 Hormonal and Reproductive Medicine (P-N: preq Regis med student)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62944 001 LEC: Krafts MD, Kristine Pauline, 5 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### MUSIC (Mu) School of Fine Arts

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Recital Holiday (4 repeats allowed; S-N: preq Concurrent registration in applied instruction)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62763 001 LAB: 12:00pm-12:50pm Th, WMM 101; Schoen, Theodore A, 6 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63547 002 LAB: Schoen, Theodore A, 6 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 Advanced Piano Proficiency (S-N: preq 1241, 1242, 2422)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65418 001 INI: Chemysh, Alexander 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65649 002 INI: Advanced piano for Vocal Music Ed and Piano Performance students, Chemysh, Alexander, 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 Advanced Standing Exam (S-N: preq: three semesters of 1xxx level applied study, department consent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65429 001 INI: (Voice) MOKOLE, Elias; Inselman, Rachel Laura; Zona, Regina M; Wold, Stanley R; Thien-Gaffey, Tina, 0 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65430 002 INI: (Piano) Chemysh, Alexander; Doty, Jeanne Alyce; Wegren, Thomas Joseph; Lipke-Perry, Tracy Donna; Rubin, Justin Henry; Fran, Ryan J, 2 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
<table>
<thead>
<tr>
<th>Course</th>
<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saxophone - Non-Major</td>
<td>1362</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Phelps, Steven</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Saxophone - Major</td>
<td>1363</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Schoen, Theodore A</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Trombone - Major</td>
<td>1373</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Whitlock, Mark Eugene</td>
<td>2 cr</td>
<td></td>
</tr>
<tr>
<td>Trombone - Non-Major</td>
<td>1374</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Whitlock, Mark Eugene</td>
<td>2 cr</td>
<td></td>
</tr>
<tr>
<td>Violin - Major</td>
<td>1351</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Violin - Non-Major</td>
<td>1352</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Viola - Major</td>
<td>1353</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Viola - Non-Major</td>
<td>1354</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Cello - Major</td>
<td>1355</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Cello - Non-Major</td>
<td>1356</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Bass - Major</td>
<td>1357</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Bass - Non-Majors</td>
<td>1358</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Clarinet - Non-Major</td>
<td>1360</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Clarinet - Major</td>
<td>1361</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Trumpet - Major</td>
<td>1370</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Trumpet - Non-Major</td>
<td>1371</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Trombone - Non-Major</td>
<td>1372</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>French Horn - Major</td>
<td>1374</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>French Horn - Non-Major</td>
<td>1375</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Tuba - Major</td>
<td>1376</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Tuba - Non-Major</td>
<td>1377</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Euphonium - Major</td>
<td>1378</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Euphonium - Non-Major</td>
<td>1379</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Percussion-Major</td>
<td>1381</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Percussion-Non Major</td>
<td>1382</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Classical Guitar-Major</td>
<td>1391</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
<tr>
<td>Classical Guitar-Non-Maj</td>
<td>1392</td>
<td>Th</td>
<td>01:00pm-01:50pm</td>
<td>Pfotenhauer, Thomas</td>
<td>3 cr</td>
<td></td>
</tr>
</tbody>
</table>

This information is accurate as of: 11/3/2011
5201 Health Sciences Applied Terminology  
(pregas basic knowledge of human anatomy/physiology.)
5081 001 IND; Taylor, Charles T, 2 cr
5205 Obesity: More Than Just a Prescription  
(A-F)
5092 001 IND; Boosalis, Maria G, 2 cr
5206 Health Literacy: Decoding Health Information Gobbledygoo  
(A-F)
5093 001 IND; Lowry, Ann E.; Taylor, Charles T, 2 cr
5620 Drug Metabolism and Disposition  
(A-F only)
63420 001 DRS; 08:00am-08:50am MWF, HH 302;  
Johnson PhD, L'Aurelle Anna Lee, 3 cr
5700 Applied Fundamentals of Pharmacotherapy  
(Credit will not be granted if credit has been received for: PHAR 3700; A-F; preq: Medical Terminology and admission to a graduate program or instr consent)
64256 001 IND; Milone PharmD, Anna S, 3 cr
6112 The Practice of Pharmaceutical Care II  
(A-F; preq First yr pharmacy student, 6111,  
Concurrent registration is required (or allowed) in 6172)
63548 001 DIS; 01:25pm-03:20pm TTh, LSci 165;  
Nagloky, Keni Daun Hager, Carter PharmD,  
Rod, 3 cr
6122 Pharmacotherapy II: Patient-Centered  
Pathophysiology Approach  
(A-F; preq: 5011, 6131, 6136, 9131, 6135,  
Concurrent registration is required (or allowed) in 5102, 6154 and 6173)
63764 001 LEC; 10:00am-12:00pm MW, LSci 163,  
09:05am-09:55am F, LSci 163, Westberg,  
Sarah M.; Undeberg PharmD, Megan R, 5 cr
6124 Pharmacotherapy IV: Patient-Centered  
Pathophysiology Approach  
(A-F; preq: 121, 6122, 6123, 6154, 6155,  
Concurrent registration is required (or allowed) in 5102)
63842 001 LEC; 10:10am-12:05pm TTh, LSci 165,  
11:15am-12:05pm F, LSci 165; Kirstein, Mark  
Noel, 5 cr
6131 Pharmacy and Health Care System  
(A-F; preq Second year pharmacy student)
64026 001 LEC; 10:10am-12:05pm TTh, LSci 163;  
Seifert, Randall Donald; Hadsall, Ronald S, 3 cr
6133 Pharmacy Practice Management  
(A-F; preq Third year pharmacy student)
64027 001 LEC; 01:25pm-02:15pm MWF, LSci 163;  
Schommer, Jon C; Hadsall, Ronald S, 3 cr
6135 Pharmacy Outcomes  
(A-F; preq 6123, 6175)
63920 001 IND; 03:30pm-04:25pm W, LSci 163;  
Conway, Jeannine M, 2 cr
6136 Pharmacy Law  
(A-F; preq Pharmacy student 3rd year)
65230 001 LEC; 01:25pm-03:20pm Th, LSci 163, 03/  
22/12-05/03/12, Bilek, Jennell Christine;  
Randell PhD, Paul L, 1 cr
6137 Ethics in Pharmacy Practice  
(A-F; preq Pharmacy student 3rd yr)
65231 001 IND; 01:25pm-03:20pm Th, LSci 163, 01/  
19/12-03/08/12, DeBruin PhD, Debra Ann;  
Randell PhD, Paul L, 1 cr
6150 Honors: Medicinal Chemistry Seminar  
(max crs 2; A-F only; preq: 6150; meets HON  
req of Honors)
64020 001 SEM, 03:30pm-05:00p Th, HH 302; Abul-  
Hajj, Yusuf J, 1 cr
6152 Biochemistry of Medicinals II  
(A-F; preq 6151, Concurrent registration is  
required (or allowed) in 6172)
63549 001 LEC; 01:25pm-02:15pm MWF, LSci 165;  
Johnson, Rodney L.; Rumbley, Jon N, 3 cr
PHYSICAL EDUCATION (PE)
College of Education & Human Service Professions

1200 Beginning Swimming
(meets LE req of PE)
69022 001 PHY, 09:00am-09:50am MW, SpHC 20;
Batinich, Greg; Anthrop., 1 cr

1402 Tennis
(meets LE req of PE)
63019 001 PHY, 10:00am-10:50am MW, FH 25;
Wendtner, Patricia J, 1 cr

1414 Bowling
(meets LE req of PE)
62804 001 PHY, 01:00pm-02:40pm T, Skyline La
SKYLINELAN, 01:00pm-01:50pm T, SpHC 9;
01/17/12-01/17/12; (SpHC 9 on first day, then
Skyline Lanes); Wendtner, Patricia J, 1 cr
64960 002 PHY, 01:00pm-02:40pm Th, Skyline La
SKYLINELAN, 01:00pm-02:40pm Th, SpHC 9;
01/17/12-01/19/12; (Skyline Lanes first day,
then Skyline Lanes); Wendtner, Patricia J, 1 cr

1500 Cross-Country Skiing
(meets LE req of PE)
62805 001 PHY, 09:00am-11:30am Th, SpHC 9A;
OFFCMPUMD, 01/17/12-03/09/12; Beery,
Thomas H., 1 cr

1502 Alpine Skiing
(meets LE req of PE)
62806 090 PHY, 06:00pm-09:00pm T, Spirit Min
CHALET0000, OFFCMPUMD, 01/17/12-03/09/12;
(Open CE reserved seats will be available to
UMD students one week before the start of
the semester.); 10 seats reserved for
Continuing Education; EXPIRES 10-JAN-
2012; Beery, Thomas H., 1 cr

1507 Introduction to River Kayaking
(meets LE req of PE)
63200 001 PHY, 02:00pm-03:40pm T, SpHC 20;
Carlson, Randall Scott, 1 cr

1512 Fishing Skills
(meets LE req of PE)
67317 001 PHY, 02:00pm-03:50pm M, SpHC 9;
Knap, Jim L, 1 cr

1530 Rock Climbing
(meets LE req of PE)
64965 001 PHY, 02:00pm-06:00pm Th, SpHC 78, 03/
19-12/04/12.; , 1 cr

1601 Aerobics
(meets LE req of PE)
62812 001 PHY, 08:00am-08:50am MW, SpHC 135;
(Open CE reserved seats will be available to
UMD students one week before the start of
the semester.); 1 seat reserved for
Continuing Education; EXPIRES 10-JAN-
2012; Wendtner, Patricia J, 1 cr
62813 002 PHY, 08:00am-08:50am Th, SpHC 135;
Wendtner, Patricia J, 1 cr

1616 Weight Training
(meets LE req of PE)
62798 001 PHY, 09:30am-10:20am Th, SpHC 92;
(Open CE reserved seats will be available to
UMD students one week before the start of
the semester.); 1 seat reserved for
Continuing Education; EXPIRES 10-JAN-
2012; Wendtner, Patricia J, 1 cr
64966 002 PHY, 1 cr

1708 Basketball
(meets LE req of PE)
62976 001 PHY, 09:00am-09:50am MW, SpHC 150;
Wendtner, Patricia J, 1 cr

1905 Varsity Basketball
(max enr: 4; 4 repeats allowed; S-N; prereq instr
consent)
63156 001 PHY; Holquist, Gary W, 1 cr
63157 002 PHY; Wiles, Annette M, 1 cr

1907 Varsity Ice Hockey
(max enr: 4; 4 repeats allowed; S-N; prereq instr
consent)
63158 001 PHY; Sandelin, Scott A, 1 cr
63159 002 PHY; Miller, Shannon, 1 cr
2021 Relativity and Quantum Physics
(A-F only; prereq 2022 or 2042 or 2012)
62240 001 LEC, 02:00-02:50pm MWF, Th, Chem 251; Habić, Alec T, 4 cr

2022 Classical Physics
(A-F only; prerequisite for 2012; credit will not be granted if already received for 1203 or 2012)
63409 001 LEC, 09:00-09:50am MWF, MWAH 191; Austin, Jay A, 4 cr

2033 Classical and Quantum Physics Lab
(Credit will not be granted if credit has been received for: PHYS 2031; A-F only; prerequisite Concurrent registration is required (or allowed) in 2021 and 2022)
63410 001 LAB, 09:00-12:50pm, MWAH 347; Sydor, Michael, 2 cr

2111 Solving Physics Problems I
(Credit will not be granted if credit has been received for: PHYS 101, PHYS 110; S-Nonly; prerequisite Math 1296 or Math 1596, concurrent registration is required in 2021)
63411 001 DIS, 04:00-05:40pm M, MWAH 195; Hiller, John R, 1 cr

2112 Solving Physics Problems II
(S-Nonly; prerequisite Math 1297 or Math 1597, concurrent registration is required in 2021)
63412 001 DIS, 04:00-05:40pm W, MWAH 195; Sydor, Michael, 1 cr

2199 Physics Tutoring
(max crs 4; 4 repeats allowed; S-Nonly; prerequisite Concurrent registration is required in 2012)
62259 001 IND, 1-2 cr

3091 Independent Study
(max crs 6; 6 repeats allowed; A-F only; prerequisite Concurrent registration is required in 2012)
62257 001 IND, 1-3 cr

3094 Physics Research
(max crs 6; 6 repeats allowed; S-Nonly; prerequisite Concurrent registration is required in 2012)
62258 001 DRS, 1-6 cr

4011 Electromagnetic Theory
(A-F only; prerequisite 2023 or 1203 or 1205, Math 3280)
63881 001 LEC, 10.00am-10.50am MWF, MWAH 191; Gran, Richard William, 3 cr

4110 Physics for Science Teachers
(A-F only; prerequisite 1002 or 1012, no Grad School cr.)
63825 002 D2S, 2 cr

5990 Physics Seminar
(max crs 2; 2 repeats allowed; S-Nonly; prerequisite Grad student) Graduate School)
63866 001 SEM, 11.00am-11.50am F, HH 216; Habig, Alec T, 1 cr

5531 Introduction to Solid State Physics
(A-F only; prerequisite 4021, 4031)
63907 001 LEC, 03:00-03:50pm MWF, MWAH 279; Maps, Jonathan, 3 cr

5591 Independent Study
(max crs 6; 6 repeats allowed; S-Nonly; prerequisite Consent of director of graduate studies, instructor consent)
62435 001 IND, 1-3 cr

5594 Physics Research
(max crs 6; 6 repeats allowed; S-Nonly; prerequisite Concurrent registration is required)
62436 001 DRS, 1-3 cr

8333 FTE: Master’s
(NGA; prerequisite Master’s student, adviser, and DGS consent)
62209 001 DRS, 1 cr

8777 Thesis Credits: Master’s
(max crs 50; 10 repeats allowed; NGA; prerequisite Max 18 cr per semester or summer; 10 or total required credit)
63130 001 THE, 1-18 cr

**POLITICAL SCIENCE (Pol)**
College of Liberal Arts

1011 American Government and Politics
(A-F only; meets LE req of LE CAT6)
62288 001 LEC, 11.00am-11.50am MWF, MonH 203; (Open CE Reserve seats will be available to UMD students one week before the start of the semester. 1 seat reserved for Continuing Education - EXPRES 10-JAN-2012; Currin-Percival, Mary, 3 cr)

1050 International Relations
(A-F only; meets LE req of LE CAT6; meets LEIP CAT6; meets LEIP requirement)
63651 001 LEC, 08.00am-08.50am TTh, LSci 185; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPRES 10-JAN-2012; Sharp, Paul, 3 cr)

1610 Introduction to Political Theory
(A-F only; meets LE req of LE CAT7)
62285 001 LEC, 08.00am-08.50am TTh, LSci 185; (Open CE Reserve seats will be available to UMD students 01/10/2012; 1 seat reserved for Continuing Education - EXPRES 10-JAN-2012; Anili, Bruno, 3 cr)

1910 The Senior Seminar
(A-F only; prerequisite 6 cr in relevant upper div pol courses, inst restraint)
63010 001 SEM, 01.00pm-02.00pm MWF, Chem 153; (Credit will not be granted if credit has been received for: POL 3402; A-F only; prerequisite 1011 or 1050, min 45 cr)

4190 Teaching Assistantship in Political Science
(max crs 5; 5 repeats allowed; S-Nonly; prerequisite 90 cr, Pol major, instructor consent; 3 cr max may be applied to upper div Pol major requirements and between Pol 3109 and 4910; no grad credit)
63722 002 IEX, 1-2 cr
63723 003 IEX, 1-2 cr
63724 004 IEX, 1-2 cr
63725 005 IEX, 1-2 cr
63726 006 IEX, 1-2 cr
63490 008 IEX, 1-2 cr
64692 007 IEX, 1-2 cr
64694 009 IEX, 1-2 cr
65475 010 IEX, 1-2 cr

**PSEUODY (Psy)**
College of Education & Human Service Professions

1003 General Psychology
(A-F only; meets LE req of LE CAT6)
62692 001 LEC, 12.00pm-12.50pm MWF, Bohr 90; (Open CE Reserve seats will be available to UMD students one week before the start of the semester.); 3 seats reserved for Continuing Education - EXPRES 10-JAN-2012; Apostol, Kathryn J, 4 cr
62963 002 LEC, 01:00pm-01:50pm MTWTh, BohH 90; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Pedersen, Paula Jean, 4 cr
62964 003 LEC, 08:00am-08:50am MTWTh, BohH 90; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Marsh, Karen Linda, 4 cr

64324 004 LEC, 05:00pm-05:50pm MTWTh, MohH 80; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 4 cr
64129 350 LEC; (Online Instruction, course adheres to traditional semester dates. Initial course information is available at http://www.d.umn.edu/goto/ceonline); Getting Started On Your Online Course;<a>, 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Gordon, Randall A, 4 cr

2003 Psychology: Discipline and Profession (A-F only; prereq Pre-psychology major)
64351 001 LEC, 09:00am-09:50am M, MohH 70; Schipper, Lucas David, 1 cr

2021 Developmental Psychology (A-F only; meets LE req of LE CAT06; meets ECD req of ECD CAT06)
63144 001 LEC, 09:00am-10:50am TTh, MohH 80; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Butterfield, Brenda S, 4 cr

65090 002 LEC, 04:00pm-05:00pm TTh, Sci 185; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 1 seat reserved for Continuing Education - EXPRESSES 10-JAN-2012; Lloyd, Robert Lee, 4 cr
64130 @050 LEC, instruction mode: Distance Education Other; Online Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of the semester. No exceptions. Initial course information will be sent to you via your UMD email account and activate your account go to https://www.umn.edu/initiate/; 1 seat reserved for Continuing Education - EXPRESSES 10-JAN-2012; Durgunoglu, Aydin Yucesan, 4 cr

2023 Marriages and Families Worldwide (A-F only; meets LE req of LE CAT8; meets LEIP req of LEIP CAT08)
63283 001 LEC, 01:00pm-01:50pm MTWTh, SCC 120; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 3 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Schipper, Christine Ann, 4 cr
63379 002 LEC, 08:00am-08:50am MTWTh, MohH 70; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Marsh, Karen Linda, 4 cr

2223 Gender in Society (A-F only; meets LE req of LE CAT8; meets LECD req of LECD CAT08)
63617 001 LEC, 04:00pm-04:50pm TTh, BohH 346; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Lloyd, Robert Lee, 4 cr

3001 Internship in Psychology (max crs 6; A-F; prereq 3010 or instr consent)
63325 002 LEC, 09:00am-09:50am M, BohH 343; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 3 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Pedersen, Paula Jean, 3 cr
63325 002 LEC, 09:00am-09:50am TTh, BohH 343; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 3 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Pedersen, Paula Jean, 3 cr

3202 Applied Methods and Measurement (A-F only; prereq 3003, 3020) 3021 Experimental Design and Methodology (A-F only; prereq 3020, 3021 or instr consent)
63015 001 LEC, 09:00am-10:50am TTh, BohH 108; LaCaille, Rick A 62816 003 LAB, 02:00pm-02:50pm M, Cina 22; Acosta, Armando, 1 cr
62817 003 LAB, 01:00pm-01:50pm M, Cina 22; LaCaille, Rick A, 4 cr
63015 001 LEC, 09:00am-10:50am TTh, BohH 108; LaCaille, Rick A 62816 003 LAB, 02:00pm-02:50pm M, Cina 22; Acosta, Armando, 1 cr
63379 002 LEC, 08:00am-08:50am MTWTh, MohH 70; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Schipper, Lucas David, 4 cr

350 Cross-cultural Psychology (A-F only; prereq 1003 or instr consent)
65116 @050 LEC, instruction mode: Distance Education Other; Online Instruction-Students must be registered and begin the course at the start of the semester and complete all requirements by the end of the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate/? and follow the directions. (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 10 seats reserved for Continuing Education - EXPRESSES 10-JAN-2012; Durgunoglu, Aydin Yucesan, 3 cr

3601 Physiological Psychology (A-F only; prereq 4020 or instr consent)
69002 001 LEC, 03:00pm-03:50pm MTWTh, EduE 50; 20 seats reserved for Psy major or pre-p psy; Schipper, Lucas David, 4 cr
64527 350 LEC; (Online Instruction, course adheres to traditional semester dates. Initial course information is available at http://www.d.umn.edu/goto/ceonline); Getting Started On Your Online Course;<a>, 20 seats reserved for Psy major or pre-p psy; Stuecher, Uwe Heinric, 3 cr

3001 History and Systems of Psychology (A-F only; prereq 1003 or instr consent)
63005 001 LEC, 02:00pm-03:15pm TTh, Engr 280; 20 seats reserved for Psy major or pre-p psy; Schipper, Lucas David, 3 cr
67725 002 LEC, 02:00pm-02:50pm MWF, SpHC 210; 20 seats reserved for Psy major or pre-p psy; Marsh, Karen Linda, 3 cr
64999 @050 LEC, instruction mode: Distance Education Other; Online Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate/? and follow the directions - Internet-delivered , Bookstore; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 1 seat reserved for Continuing Education - EXPRESSES 10-JAN-2012; Stuecher, Uwe Heinric, 3 cr
65000 @051 LEC, instruction mode: Distance Education Other; Online Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate/? and follow the directions - Internet-delivered , Bookstore; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 2 seats reserved for Psy major or pre-p psy; 4 seats reserved for Psy Online Students - EXPRESSES 13-JAN-2012; Kivi, Carol Susan, 3 cr
3121 Theories of Personality (A-F only; prereq 1003 or instr consent)
65002 001 LEC, 03:30pm-04:40pm MTWTh, BohH 104; (Open CE reserved seats will be available to UMD students one week before the start of the semester.) 15 seats reserved for Psy major or pre-p psy; 10 seats reserved for Psychology Minor; 1 seat reserved for Continuing Education - EXPRESSES 10-JAN-2012; Stuecher, Uwe Heinric, 3 cr

This information is accurate as of: 11/3/2011
3211 Abnormal Psychology (A-F only; prereq 1003 or inst conseq)

64698 001 LEC, 08:00am-09:15am TTh, BohH 104; 20 seats reserved for Psy major or pre-psy; 4 seats reserved for Psy Online Students - EXPIRES 13-JAN-2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; McClure, Bud A, 3 cr

3212 Child and Adolescent Abnormal Psychology (A-F; prereq 1003, 2011)

65006 001 LEC, 03:00pm-03:50pm MWF, BohH 104; 20 seats reserved for Psy major or pre-psy; 3 cr

3213 Social Psychology (A-F only; prereq 1003 or inst conseq)

64998 001 LEC, 08:00am-09:15am TTh, BohH 108; (Open CE reserved seats will be available to UMD students on January 11, 2011.); 20 seats reserved for Psy major or pre-psy; 4 seats reserved for Psy Online Students - EXPIRES 13-JAN-2012; 1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Gordon, Randall A, 3 cr

36502 003 LEC, 03:30pm-04:45pm TTh, SpHC 208; 20 seats reserved for Psy major or pre-psy; Gordon, Randiene, 3 cr

3211 Group Dynamics (A-F only; prereq 1003 or inst conseq)

62777 001 LEC, 03:30pm-04:45pm MW, BohH 108; (Open CE reserved seats will be available to UMD students on January 11, 2011.); 20 seats reserved for Psy major or pre-psy; Butterfield, Brenda S, 3 cr

65001 @050 LEC, instruction mode: Distance Education Other; Online Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate? and follow the directions - Internet-delivered , Bookstore (Open CE reserved seats will be available to UMD students one week before the start of the semester.); 16 seats reserved for Psy major or pre-psy; Schilling, Christine Ann, 4 cr

3215 Topics in Human Sexuality (Credit will not be granted if credit has been received for: PSY 3216; A-F only; prereq 1003 or inst conseq)

62801 001 LEC, 11:00am-11:50am MW, MWF, BohH 108; 20 seats reserved for Psy major or pre-psy; Schilling, Christine Ann, 3 cr

64700 350 LEC; (Online Instruction, course adheres to traditional semester dates. Initial course information is available at <a href="http://www.d.umn.edu/goto/ceonline">Getting Started On Your Online Course</a>); 16 seats reserved for Psy major or pre-psy; 4 seats reserved for Psy Online Students - EXPIRES 13-JAN-2012; 2 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Pedersen, Paula Jean, 3 cr
<table>
<thead>
<tr>
<th>Course Name</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2216 19th Century Russian Literature in Translation: Dostoevsky, Gogol and Turgenev</td>
<td>(A-F only; prereq LEQ of LE CAT 5) meets LEQ of LEIP CAT 09</td>
<td>4</td>
<td>01 LEC, 03:00pm-03:50pm MTTh, EduD 20; (Open CE Reserve seats will be available to UMD students 01/10/2012)</td>
<td>EduD 20</td>
</tr>
<tr>
<td>86888 001 LEC, 03:00pm-03:50pm MTTh, EduD 20; (Open CE Reserve seats will be available to UMD students 01/10/2012)</td>
<td>1 seat reserved for Continuing Education - EXPIRES 10-JAN-2012; Nolan, Daniel S, 4</td>
<td>4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69783 001 LEC, 10:00am-11:50am MW, VKH 201; Dababneh, Awad J, 4</td>
<td></td>
<td>4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6051 Construction Safety (A-F only; prereq 6002 or dept consent and instr consent)</td>
<td>62774 001 LEC, 05:00pm-07:40pm W, VKH 201; Taylor, Sean Lachlan, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6102 Advanced Industrial Hygiene and Health Physics (A-F only; prereq 6101 or dept consent and instr consent)</td>
<td>67994 001 LEC, 05:00pm-07:40pm MW, VKH 201; Roseth, Wade Edward, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6291 Independent Study in Industrial Safety (max crs 3; S-N only; prereq 6002, instr consent)</td>
<td>62775 001 IND; Feyen, Robert G, 1-3</td>
<td>1-3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6302 Occupational Ergonomics and Injury Management (A-F only; prereq MEHS student or dept consent and instr consent)</td>
<td>62768 001 LEC, 03:00pm-04:20pm Th, VKH 201; (-lab arr) VKH 201, 1-20; Dababneh, Awad J, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67182 01 LEC, 03:00pm-04:20pm Th, VKH 201; (-lab arr) VKH 201, 1-20; Dababneh, Awad J, 3</td>
<td></td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6997 Internship in Environmental Health and Safety (S-N only; prereq MEHS student, dept consent)</td>
<td>65027 001 IEX, Abou PhD, Seraphin Chally, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69986 Independent Study (max crs 4; 4 repeats allowed; A-F only; instr consent)</td>
<td>62979 001 LEC, 09:00am-10:50am MWF, SPC 108; Beery, Thomas H, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6327 Large Event Management (A-F only; prereq 2300 or instr consent)</td>
<td>64071 001 LEC, 10:00am-10:50am MWF, SPC 9; Zmudy PhD, Mark Howard, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4320 GIS Management for Recreation Professionals (prereq No Grad School credit)</td>
<td>63392 001 LEC, 05:30pm-08:30pm Th, H 470; Geissler, John D, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4991 Independent Study (max crs 4; 4 repeats allowed; A-F only; instr consent; no Grad School credit)</td>
<td>62796 001 IND; Beery, Thomas H, 1-4</td>
<td>1-4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65736 002 IND; Gilbertson, Ken Lloyd, 3</td>
<td></td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65737 003 IND; Ernst, Julie Ann, 1-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>65738 004 IND; Zmudy PhD, Mark Howard, 1-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4992 Readings in Recreation (max crs 4; 4 repeats allowed; A-F only; instr consent; no Grad School credit)</td>
<td>62797 001 IND; Beery, Thomas H, 1-4</td>
<td>1-4 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4997 Recreation Practicum (S-N; prereq ENED 4163, PETE 3508 and instr consent; no grad credit)</td>
<td>65739 001 PRC; Beery, Thomas H, 3</td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65739 002 PRC; Gilbertson, Ken Lloyd, 3</td>
<td></td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65740 003 PRC; Ernst, Julie Ann, 3</td>
<td></td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65741 004 PRC; Zmudy PhD, Mark Howard, 3</td>
<td></td>
<td>3 cr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RUSSIAN (Russ) College of Liberal Arts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1102 Beginning Russian II (A-F only; prereq 1101 or equiv or instr consent; meets LEQ of LE CAT 3)</td>
<td>62228 001 LEC, 10:00am-11:00am MW, H 468; (Open CE Reserve seats will be available to UMD students one week before the start of the semester); 6 seats reserved for Continuing Education - EXPIRES 10-JAN-2012; Nolan, Daniel S, 4</td>
<td>4 cr</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
49

This information is accurate as of: 11/3/2011
SUPPORTIVE SERVICES PROGRAM (SSP) Student Life

103 Basic Mathematics and Introductory Algebra
(S-N only; prereq: [3 cr equiv]; Credit will be awarded if credit granted for Math 1004; can apply or toward a degree. (The preprofessional course fee is equal to 3 credits of resident tuition))

64870 001 LEC, 02:00pm-02:50pm MWF, MonH 206; Zimmermann, Laura Joan, 3 cr

1000 UMD Seminar
(Credit will not be granted if credit has been received for: CLA 1001; max crs: 2-A only)

62229 001 LEC, 11:00am-11:50am MW, SCC 21, 01/17/12-03/09/12; Jackson, Matthew, 1-2 cr

62230 002 LEC, 03:00pm-03:50pm W, H 464; O’Keefe, Trisha Ann, 1-2 cr

63937 003 LEC, 11:00am-11:50am F, SCC 21; Jackson, Matthew, 1-2 cr

64659 004 LEC, 11:00am-11:50am TTh, SpHC 207, 01/17/12-03/09/12; Jackson, Matthew, 1-2 cr

1052 College Writing Strategies
(Credit will not be granted if credit has been received for: MED 1004; S-N only)

63372 001 LEC, 10:00am-10:50am TTh, Cina 214; Jackson, Matthew, 1-2 cr

1054 College Study Strategies
(Credit will not be granted if credit has been received for: MED 1003; S-N only; prereq: )

63374 001 LEC, 09:00am-09:50am MW, SCC 21, 01/17/12-03/09/12; Jackson, Matthew

62444 002 DIS, 09:00am-09:50am W, SCC 21, 01/17/12-03/09/12; Jackson, Matthew

62445 003 DIS, 09:00am-09:50am W, SCC 6, 01/17-12/03/12; Jackson, Matthew, 1 cr

62446 004 DIS, 09:00am-09:50am W, Chem 153, 01/17-12/03/12; Jackson, Matthew, 1 cr

1101 Personal Development
(A-F only)

63375 001 LEC, 11:00am-11:50am T, BohH 346; Reisner, Shirley A

63376 002 LEC, 11:00am-11:50am T, BohH 343; Reisner, Shirley A, 2 cr

63377 003 LEC, 11:00am-11:50am Th, BohH 343; Reisner, Shirley A, 2 cr

3001 Preparation for SSP Teaching Assistantship
(max crs: 3; S-N only; prereq: instr consent)

62231 001 LEC, 09:00am-09:50am TTh, SCC 21, 09:00am-09:50am Th, SCC 6; (TA training for SSP 1054 and 1101); Reisner, Shirley A, 1-3 cr

63021 002 LEC, 04:30pm-05:20pm MW, SCC 21, 01/17-12/03/12; Jackson, Matthew, 1-2 cr

64280 003 LEC, 01:30pm-01:50pm MW, SCC 21, 01/17-12/03/12; (Supplemental Instruction for Biology); Strand, Jill R, 1-3 cr

64392 004 PRC; (ICL); Perry-Spears, Megan Joy, 1-3 cr

3002 SSP Teaching Assistantship Practicum
(max crs: 6; repeats allowed; A-F only; prereq: instr consent)

62979 001 PRC; (Study Strategies); Jackson, Matthew, 1-3 cr

62980 002 PRC; (Personal Development); Reisner, Shirley A, 1-3 cr

63030 003 PRC, 03:50pm-07:30pm MTWTh, SCC 21; (Supplemental Instruction for Biology); Strand, Jill R, 1-3 cr

64392 004 PRC; (ICL); Perry-Spears, Megan Joy, 1-3 cr

3003 Tutor Training: Individualization of Instruction
(A-F; prereq: instr consent)

62637 001 LEC, 02:00pm-02:50pm MWF, SCC 21; Strand, Jill R, 2 cr

62638 002 LEC, 10:00am-11:50am Th, SCC 21; Strand, Jill R, 2 cr

This information is accurate as of: 11/3/2011
This information is accurate as of: 11/3/2011
310 Advanced Writing: Language and Literature
(A-F only; prereq: 1120, min 60 cr; credit will not be granted if already received for COMP 310)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
<th>Meeting Information</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>5230</td>
<td>Web Design and Digital Culture</td>
<td>(Credit will not be granted if credit has been received for: WRIT 4230; A-F only; prereq Credit will not be granted if already received for Comp 5230, Coll Grad or Grad student)</td>
<td>001 LAB, 11:00am-11:50am MWF, MonH 209; Meets with: 65409 WRIT 4230;</td>
<td>3 cr</td>
</tr>
<tr>
<td>5250</td>
<td>New Media Writing</td>
<td>(Credit will not be granted if credit has been received for: WRIT 4250; A-F only; prereq Credit will not be granted if already received for Comp 5250, Coll Grad or Grad School student)</td>
<td>001 LEC, 10:00am-10:50am MWF, MonH 209; Meets with: 65050 WRIT 4250;</td>
<td>3 cr</td>
</tr>
<tr>
<td>5290</td>
<td>Advanced Web Design and Digital Culture</td>
<td>(Credit will not be granted if credit has been received for: WRIT 4290; A-F only; prereq Credit will not be granted if already received for Comp 5290, 5230, Coll Grad or Grad School student)</td>
<td>001 LEC, 08:00am-09:15am TTh, KPlz 143; Meets with: 68888 WRIT 4290;</td>
<td>3 cr</td>
</tr>
<tr>
<td>5591</td>
<td>Independent Study</td>
<td>(Credit will not be granted if credit has been received for: WRIT 4591; max crs 6; 6 repeats allowed; A-F Only; prereq College grad or grad school, credit will not be granted if already received for Comp 5991, max 3 cr may be applied to Grad School prog, instr consent)</td>
<td>001 IND;</td>
<td>1-3 cr</td>
</tr>
<tr>
<td>8910</td>
<td>Practicum in Teaching Writing</td>
<td>(max crs 4; A-F only; prereq Credit will not be granted if already received for Engl 8910 or Comp 8910, instr consent)</td>
<td>001 PRC;</td>
<td>1-4 cr</td>
</tr>
<tr>
<td>8994</td>
<td>Directed Research in Writing Studies</td>
<td>(max crs 3; 3 repeats allowed; A-F only; prereq Credit will not be granted if already received for Comp 8994; 8902; instr consent)</td>
<td>001 DRS;</td>
<td>1-3 cr</td>
</tr>
</tbody>
</table>