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 follows:

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.

Department 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.

This information is accurate as of: 01/20/2012

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

<table>
<thead>
<tr>
<th>Class Standing</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>1-29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89</td>
</tr>
<tr>
<td>Senior</td>
<td>90 or more</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIS</td>
<td>Discussion</td>
</tr>
<tr>
<td>DRD</td>
<td>Directed Reading</td>
</tr>
<tr>
<td>DRS</td>
<td>Directed Research</td>
</tr>
<tr>
<td>DST</td>
<td>Directed Study</td>
</tr>
<tr>
<td>INI</td>
<td>Individualized Instruction</td>
</tr>
<tr>
<td>IND</td>
<td>Independent Study</td>
</tr>
<tr>
<td>IEX</td>
<td>Intern/Exemship</td>
</tr>
<tr>
<td>LAB</td>
<td>Laboratory</td>
</tr>
<tr>
<td>LEC</td>
<td>Lecture</td>
</tr>
<tr>
<td>LET</td>
<td>Lecture only (without LAB or DIS sections)</td>
</tr>
<tr>
<td>PHY</td>
<td>Physical Education</td>
</tr>
<tr>
<td>PRC</td>
<td>Practicum</td>
</tr>
<tr>
<td>REH</td>
<td>Rehearsal</td>
</tr>
<tr>
<td>SEM</td>
<td>Seminar</td>
</tr>
<tr>
<td>STU</td>
<td>Studio</td>
</tr>
<tr>
<td>THE</td>
<td>Thesis Credit</td>
</tr>
<tr>
<td>WKS</td>
<td>Workshop</td>
</tr>
</tbody>
</table>

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
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 (Acct)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acct 2001</td>
<td>Principles of Financial Accounting</td>
<td>(A-F; prereq Min 15 or cr or college consent)</td>
<td>Concepts of financial accounting and external reporting.</td>
<td>3</td>
<td>06/14/12-06/29/12</td>
</tr>
<tr>
<td>Acct 3001</td>
<td>Technology Tools in Accounting</td>
<td>(A-F; prereq LSBE cand)</td>
<td>Introduction to basic and advanced applications of spreadsheet, database, and other accounting specific to solve accounting problems.</td>
<td>3</td>
<td>06/14/12-06/29/12</td>
</tr>
<tr>
<td>Acct 3101</td>
<td>Intermediate Accounting</td>
<td>(A-F; prereq LSBE cand or acct minor or college consent)</td>
<td>Review of financial accounting standard setting, conceptual framework, and accounting process. Income statement, balance sheet, and statement of cash flows. Present value concepts, cash, receivables, inventories, fixed assets, current liabilities, and contingencies.</td>
<td>3</td>
<td>06/14/12-06/29/12</td>
</tr>
<tr>
<td>Acct 4101</td>
<td>Auditing</td>
<td>(A-F; max crs 3; 3 repeats allowed; prereq 3101, dept consent)</td>
<td>Theory and procedures in audit process.</td>
<td>3</td>
<td>06/14/12-06/29/12</td>
</tr>
</tbody>
</table>

### American Sign Language (ASL)

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</tr>
</thead>
<tbody>
<tr>
<td>ASL 2498</td>
<td>American Sign Language Skill Building Workshop</td>
<td>(A-F; max crs 12; 12 repeats allowed; prereq max 8 cr to Grad School program, instr consent)</td>
<td>Supervised lab experience in American sign language as used receptively and expressively in communication with deaf individuals.</td>
<td>3</td>
<td>05/14/12-05/30/12</td>
</tr>
<tr>
<td>ASL 2001</td>
<td>Begning American Sign Language I</td>
<td>(A-F; max crs 10; 10 repeats allowed; prereq 2001 or instr consent)</td>
<td>Introduction to basic vocabulary in American Sign Language and the fingerspelling alphabet.</td>
<td>3</td>
<td>05/14/12-05/30/12</td>
</tr>
<tr>
<td>ASL 2002</td>
<td>Begning American Sign Language II</td>
<td>(A-F; max crs 10; 10 repeats allowed; prereq 2001 or instr consent)</td>
<td>Expansion of vocabulary base in American Sign Language.</td>
<td>3</td>
<td>05/14/12-05/30/12</td>
</tr>
</tbody>
</table>

### American Indian Studies (AmIn)

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</thead>
<tbody>
<tr>
<td>AmIn 1010</td>
<td>Introduction to American Indian Literature</td>
<td>(A-F; prereq credit will not be granted if already received for 1106; meets LE req of LE CAT9)</td>
<td>Introduces American Indian literatures from a variety of tribal perspectives as well as a wide range of genres including oratory, poetry, short stories, and novels.</td>
<td>3</td>
<td>06/14/12-06/29/12</td>
</tr>
<tr>
<td>AmIn 3393 Projects in American Indian Studies</td>
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<td></td>
<td>3</td>
<td>05/14/12-05/30/12</td>
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</tbody>
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### Anthropology (Anth)

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</tr>
</thead>
<tbody>
<tr>
<td>Anth 2182</td>
<td>Introduction to African and African American Studies</td>
<td>Nancy McFarlin, 1 cr</td>
<td>In-depth study of principles of American Sign Language.</td>
<td>1</td>
<td>05/14/12-05/30/12</td>
</tr>
<tr>
<td>Anth 2977</td>
<td>American Indian tribal governments and leadership</td>
<td>Linda LeGarde, 3 cr</td>
<td>American Indian tribal governments and leadership.</td>
<td>3</td>
<td>05/14/12-05/30/12</td>
</tr>
</tbody>
</table>
Anth 1605 Fundamentals of Anthropology
(A-F; Credit will not be granted if credit has been received for: ART 2600, ART 3600, ART 1607; prerequisite for art majors or minors; meets LEIP req of LEIP CAT06)
Introduction to anthropological theory and its role in the communicative process. Basic anthropological principles and methods of data collection. Students will learn that culture is more than material artifact systems; it includes nonmaterial systems as well. Studies of culture and adaptations will be conducted.
80556 – 001 LEC, 08:00am-12:00pm MTWThF, H 318, 05/14/12-06/01/12, Limited to 5; Combined with: 80603 ART 1605, 80604 ART 4600, 81003 ART 4675; Brush, Gloria DeFilipps, 3 cr

Art 2100 Painting I
(A-F; prerequisite 1006 or 1009 or 1010, 101 art or ed major or art minor or instr consent; credit will not be granted if already received for: 1101)
Color and pigment theory, basic concepts and explorations in technology and imagery. Painting traditions and instruction presented only on the Mac platform. Plus 3 hours arranged studio work per week.
80604 – 001 LEC, 08:00am-12:00pm MTWThF, Cina 214, 05/14/12-06/01/12, Limited to 5; Combined with: 80603 ART 2600, 80605 ART 4600, 81003 ART 4675; Brush, Gloria DeFilipps, 3 cr

Art 2500 Jewellery and Metals I
(A-F; prerequisite 1011 or 1013, art or ed major or ed major or instr consent; credit will not be granted if already received for: 1500)
Basic jewelry design, fabrication, and surface enhancement techniques.
88005 – 001 LEC, 10:00am-04:00pm MTWThF, ABAB 135, 05/14/12-06/01/12, Limited to 14; Combined with: 88011 ART 3500; Suh, Eun-Kyung, 3 cr

Art 2600 Photography I
(A-F; Credit will not be granted if credit has been received for: ART 1605, ART 1600, ART 1007; prerequisite 101, art major or Photography Minor or instr consent)
Introduction to photographic concepts, materials, and the digital darkroom. Varied thematic assignments within the visual arts context. Requires digital camera with adjustable shutter speeds and apertures. Laboratory and software required; instruction presented only on the MacOS.
80603 – 001 LEC, 08:00am-12:00pm MTWThF, Cina 16, 05/14/12-06/01/12, Limited to 5; Combined with: 80604 ART 1605, 80605 ART 4600, 81003 ART 4675; Brush, Gloria DeFilipps, 3 cr

Arch 3961 Independent Study in Anthropology
(A-F; max crs 5; 5 repeats allowed; prerequisite 60 cr or instr consent, no Grad School cr)
Directed reading and research in ethnography leading to preparation of paper.
80793 – 001 IEX, 05/14/12-06/01/12, Jones, Jennifer Elaine, 2-4 cr

Arts 2600 Photography I
(A-F; Credit will not be granted if credit has been received for: ART 1605, ART 1600, ART 1007; prerequisite 101, art major or Photography Minor or instr consent)
Introduction to photographic concepts, materials, and the digital darkroom. Varied thematic assignments within the visual arts context. Requires digital camera with adjustable shutter speeds and apertures. Laboratory and software required; instruction presented only on the MacOS.
80603 – 001 LEC, 08:00am-12:00pm MTWThF, Cina 16, 05/14/12-06/01/12, Limited to 5; Combined with: 80604 ART 1605, 80605 ART 4600, 81003 ART 4675; Brush, Gloria DeFilipps, 3 cr

Arts 3100 Painting II
(A-F; max crs 9; 3 repeats allowed; prerequisite 2600, art major or ed major or instr consent)
Painting in specialized interest area, using student/major, or art minor or instr consent; credit will not be granted if already received for: ART 2600, ART 3700; max crs 9; 3 repeats allowed; prerequisite 2600, art major or ed major or instr consent)

This information is accurate as of: 01/20/2012
### University of Minnesota – Class Schedule for Duluth Campus   Summer 2012

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<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Art 1125</td>
<td>Watercolor I</td>
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<tr>
<td>Art 2400</td>
<td>Ceramics I</td>
<td></td>
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<tr>
<td>Art 3700</td>
<td>Drawing II</td>
<td></td>
<td></td>
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<tr>
<td>Art 4200</td>
<td>Digital Filmmaking: Visual Narratives</td>
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<tr>
<td>Art 4700</td>
<td>Drawing III</td>
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<td>Art 5977</td>
<td>Art Museum Internship</td>
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<tr>
<td>Art 3360</td>
<td>Photography: Alternative Processes</td>
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<tr>
<td>Art 3700</td>
<td>Drawing II</td>
<td></td>
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<tr>
<td>Art 4400</td>
<td>Digital Filmmaking: Advanced Projects</td>
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**Biology**

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</tr>
</thead>
<tbody>
<tr>
<td>Biol 3101</td>
<td>Molecular Biology</td>
<td></td>
<td></td>
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<tr>
<td>Biol 3700</td>
<td>Marine Biology</td>
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**Behavioral Sciences**

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<thead>
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<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BhSc 5491</td>
<td>Problems in Medical Behavioral Sciences</td>
<td></td>
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</tr>
</tbody>
</table>

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**Medical School - Duluth Campus**

<table>
<thead>
<tr>
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<th>Instructor</th>
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<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Med Sci 6552</td>
<td>Social and Behavioral Medicine I</td>
<td></td>
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</tbody>
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**Swenson College of Science & Engineering**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bio 3201</td>
<td>Biology and Society</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bio 3999</td>
<td>Undergraduate Research</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Bio 3998</td>
<td>Internship in Biology</td>
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**Astronomy (Ast)**

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Ast 1040</td>
<td>Introductionary Astronomy</td>
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</tbody>
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**On Your Online Course. Internet Delivered.)**

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<tbody>
<tr>
<td>Biol 275S</td>
<td>The Return of the Shedd Aquarium</td>
<td></td>
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<tr>
<td>Biol 4841</td>
<td>Problems in Medical Behavioral Sciences</td>
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**Medical School - Duluth Campus**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Med Sci 6552</td>
<td>Social and Behavioral Medicine I</td>
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**Swenson College of Science & Engineering**

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<tr>
<th>Course Code</th>
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<th>Time</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>Bio 3201</td>
<td>Biology and Society</td>
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<tr>
<td>Bio 3999</td>
<td>Undergraduate Research</td>
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<tr>
<td>Bio 3998</td>
<td>Internship in Biology</td>
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</tbody>
</table>
Biol 4501 General Microbiology
(A F only; prereq 2105 or instr consent, or Biol or IBS Grad student)
Morphology of microorganisms; growth; environmental and physiological factors; physiology and chemical control; taxonomy; viruses; genetics of bacteria; practical applications, including medical, water, soil, and food microbiology.

Biol 4511 Medical Microbiology
(A F only; prereq 4501, no Grad School cr)
Overview of the dynamic relationships between human hosts and pathogenic microorganisms. Topics include the human immune system, antimicrobial therapy, pathogenic bacteria, viruses, and pathogenic eukaryotic species.

BLaw 3001 Law and Ethics for Financial Professionals
(A F only; prereq 1012 or instr consent, or Biol or IBS Grad student)
Structure, life history, ecology, classification, evolution, principles of control, and significance of insects in our society. Field collections.

BUSINESS LAW (BLaw)
3604 LSB, 1151ably Drive, Laboratory School of Business and Economics, Duluth, MN 55812-3011
218-726-7966

Labovitz School of Business & Economics
May Session

BLaw 3001 Law and Ethics for Financial Professionals
(A F; Credit will not be granted if credit has been received for: BLAW 3001; prereq LSBE cann or dept consent)
Examination of the legal and ethical issues faced by financial professionals. Topics include agency, bankruptcy, insider trading and other securities laws, obligations of corporate directors and officers, negotiable instruments and secured lending transactions.

CHEMISTRY (Chem)
240 Chem, 1093 University Drive, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-7212
http://www.d.umn.edu/chem

Swenson College of Science & Engineering
Summer Session

Che 3791 Independent Study
(max crs 3; 3 repeats allowed; prereq BSCHE cann, dept consent)
Directed Individual study arranged with instructor and head of department before registration.

Chem 1153 General Chemistry I
(A F only; prereq One year high school chem, high school math, Act 21 or higher or a grade of C- in Math 100S. Credit will not be granted if already received for 1151 and 1161; meets LE req of LE CAT5)
Fundamental principles of chemistry exemplified by study of elements, compounds, and their reactions. The companion laboratory, CHEM 1153, should be taken concurrently. The combination of CHEM 1153 and CHEM 1154 meets liberal education category 4 requirements.

Chem 1154 General Chemistry Lab I
(A F only; prereq Previous of concurrent enrollment in CHEM 1153 and 1154; credit will not be granted if CHEM 1153 and 1161; meets LE req of LE CAT5)
Fundamental principles of chemistry exemplified by laboratory study of elements, compounds, and their reactions. This laboratory accompanies CHEM 1153. The combination of CHEM 1153 and CHEM 1154 meets liberal education category 4 requirements.

Chem 1155 General Chemistry II
(A F only; prereq 1153 or 1161 or 1154 or 1162; credit will not be granted if already received for 1145 or 1162)
Fundamental principles of chemistry exemplified by study of elements, compounds, and their reactions. Solid knowledge of college algebra and General Chemistry I is required. The companion laboratory course CHEM 1165 should be taken concurrently.

Chem 1156 General Chemistry Lab II
(A F only; prereq 1155 or 1145 or 1163 or 1154 or 1162; credit will not be granted if already received for 1155 or 1163)
Fundamental principles of chemistry exemplified by laboratory study of elements, compounds, and their reactions. This laboratory accompanies CHEM 1155. The combination of CHEM 1155 and CHEM 1156 meets liberal education category 4 requirements.

Chem 1191 Independent Study
(A F only; max crs 4; 4 repeats allowed; prereq dept consent)
For students wishing to do special work in areas useful to individual programs and objectives when such are not available in regular course offerings.

Chem 2222 Quantitative Analysis
(A F only; prereq 1152 or 1162 or 1155 and 1166. Concurrent registration is required (or allowed) in 2233; credit will not be granted if already received for 2212 or 2242) Theory in analytical techniques; introduces gravimetric, volumetric, and spectrophotometric methods.

Chem 2223 Quantitative Analysis Laboratory
(A F only; prereq 1152 or 1162 or 1155 and 1166. Concurrent registration is required (or allowed) in 2222; credit will not be granted if already received for 2212 or 2242) Lab accompanies 2222 involving the quantitative analysis of organic and inorganic samples using classical and instrumental techniques. Students are instructed in the use of classical and modern computer-controlled instrumentation and techniques, as applied to the acquisition and analysis of experimental data.

Chem 2301 Organic Chemistry I
(A F only; prereq 2521 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Structure and bonding, stereochemistry, functional group reactions.

Chem 2304 Organic Chemistry II Laboratory
(A F only; prereq 2521 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Laboratory companion to CHEM 2542. Structure and bonding, stereochemistry, functional group reactions.

Chem 3321 Biochemistry
(A F only; prereq 2521 or 2522 or 2541 or 2542. Concurrent registration is required (or allowed) in 2524; credit will not be granted if already received for 2521, 2522, 2545) Laboratory companion to Chem 2542, for non-chemistry majors. Functional group reactions, bioorganic chemistry.

Chem 3323 Biochemistry Laboratory
(S N only; max crs 3; 10 repeats allowed; prereq dept consent)
Experience in a selected area of research.

Chem 3325 and 3326 Quantitative Analysis Laboratory
(A F only; prereq 2521 or 2522 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Survey of biochemistry, emphasizing enzyme catalysis, cellular energetics, and major metabolic processes.

Chem 3326 Biochemistry
(A F only; prereq 2521 or 2522 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Survey of biochemistry, emphasizing enzyme catalysis, cellular energetics, and major metabolic processes.

CHEMICAL ENGINEERING (Che)
176 Engr, 1303 Ortean Drive, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-7216
http://www.d.umn.edu/che

Swenson College of Science & Engineering
Summer Session

Che 3791 Independent Study
(max crs 3; 3 repeats allowed; prereq BSCHE cann, dept consent)
Directed Individual study arranged with instructor and head of department before registration.

Chem 2521 Organic Chemistry I
(A F only; prereq 1152 or 1162 or 1155 and 1166. Concurrent registration is required (or allowed) in 2522; credit will not be granted if already received for 2212 or 2242) Theory in analytical techniques; introduces gravimetric, volumetric, and spectrophotometric methods.

Chem 2522 Quantitative Analysis
(A F only; prereq 1152 or 1162 or 1155 and 1166. Concurrent registration is required (or allowed) in 2523; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Structure and bonding, stereochemistry, functional group reactions.

Chem 2541 Organic Chemistry I
(A F only; prereq 1152 or 1162 or 1155 and 1166. Concurrent registration is required (or allowed) in 2544 or Concurrent registration is required (or allowed) in 2545; credit will not be granted if already received for 2522, 2523, 2524) Laboratory companion to Chem 2542, for non-chemistry majors. Functional group reactions, bioorganic chemistry.

Chem 2544 Organic Chemistry II Laboratory
(A F only; prereq 2521 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Laboratory companion to CHEM 2542. Structure and bonding, stereochemistry, functional group reactions.

Chem 2545 Organic Chemistry III Laboratory
(S N only; max crs 3; 10 repeats allowed; prereq dept consent)
Experience in a selected area of research.

Chem 3324 Biochemistry
(A F only; prereq 2521 or 2522 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2521, CHE 2321, ENGR 2110)
Survey of biochemistry, emphasizing enzyme catalysis, cellular energetics, and major metabolic processes.

Chem 3325 and 3326 Quantitative Analysis Laboratory
(A F only; prereq 2521 or 2522 or 2541 or 2542. Concurrent registration is required (or allowed) in 2543; credit will not be granted if already received for 2212 or 2242) Lab accompanies 2222 involving the quantitative analysis of organic and inorganic samples using classical and instrumental techniques. Students are instructed in the use of classical and modern computer-controlled instrumentation and techniques, as applied to the acquisition and analysis of experimental data.

Chem 3777 Thesis Credits: Master's
(NGA; max crs 50; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only)

Chinese (CHIN)
457 N. 1201 Ortean Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-7351
http://www.d.umn.edu/ftl/main/
College of Liberal Arts
Summer Session

This information is accurate as of: 01/20/2012
**Summer 2012**

**Comm 4399 Directed Projects in Communication** (S-N; max crs 6; 6 repeats allowed; prereq Min 60 cr., Comm major or minor, instr consent, no Grad School cr.) Individual projects in the communication discipline, under taken under the supervision of a regular faculty member.

**Comm 5000 Senior Seminar** (A-F; max crs 6; prereq 1000, 1112 or 1115, 2025, 2030 with a C or better; Min 90 cr., Comm major, instr consent, no Grad School cr.) Advanced study and individual research on a selected topic or theme in communication; senior seminar course for communication majors.

**Comm 1112 Public Speaking** (A-F; credit will not be granted if credit has been received for: COMM 2511; meets LE req of LE CAT3) Application of the theoretical bases of rhetoric to the public speaking situation.

**Comm 3300 Teaching Assistantship in Communication** (S-N; max crs 6; 6 repeats allowed; prereq instr consent) Practical experience in teaching beginning courses in the department. Students serve as intern teachers assisting the instructor in administration of the course. Application deadline one week before beginning of registration for following semester.

**Comm 3310 Research Assistant in Communication** (S-N; max crs 18; 6 repeats allowed; prereq instr consent) Practical experience in assisting communication faculty in ongoing research projects. Comm 3310 and 4397 carry variable credit, only some of which may count toward the comm major or minor. While all credits for these courses apply to the 120 cr required for graduation, the max number of credits from these courses (either one course or combined from the two courses) that may apply to the student’s major or minor is three (3).

**Comm 3393 – 3396 Directed Research in Communication** (A-F only; max crs 6; 6 repeats allowed; prereq Min 60 cr., Comm major, instr consent; may not be applied to elective cr for comm major or minor) Individual projects in the communication discipline, under taken under the supervision of a regular faculty member.

**Comm 3300 Teaching Assistantship in Communication** (S-N; max crs 6; 6 repeats allowed; prereq Min 60 cr., Comm major or minor, instr consent, may not be applied to elective cr for a Comm major or minor) Practical experience in teaching beginning courses in the department. Students serve as intern teachers assisting the instructor in administration of the course. Application deadline is one week before beginning of registration for following semester. 

**Comm 3310 Research Assistant in Communication** (S-N; max crs 6; 6 repeats allowed; prereq instr consent) Practical experience in assisting communication faculty in ongoing research projects. Comm 3310 and 4397 carry variable credit, only some of which may count toward the comm major or minor. While all credits for these courses apply to the 120 cr required for graduation, the max number of credits from these courses (either one course or combined from the two courses) that may apply to the student’s major or minor is three (3).

**Comm 3393 – 3396 Directed Research in Communication** (A-F only; max crs 6; 6 repeats allowed; prereq Min 60 cr., Comm major, instr consent; may not be applied to elective cr for a Comm major or minor) Individual projects in the communication discipline, under taken under the supervision of a regular faculty member.

**Comm 3300 Teaching Assistantship in Communication** (S-N; max crs 6; 6 repeats allowed; prereq Min 60 cr., Comm major or minor, instr consent, may not be applied to elective cr for a Comm major or minor) Practical experience in teaching beginning courses in the department. Students serve as intern teachers assisting the instructor in administration of the course. Application deadline is one week before beginning of registration for following semester. 

**Comm 3310 Research Assistant in Communication** (S-N; max crs 6; 6 repeats allowed; prereq instr consent) Practical experience in assisting communication faculty in ongoing research projects. Comm 3310 and 4397 carry variable credit, only some of which may count toward the comm major or minor. While all credits for these courses apply to the 120 cr required for graduation, the max number of credits from these courses (either one course or combined from the two courses) that may apply to the student’s major or minor is three (3).

This information is accurate as of: 01/20/2012
University of Minnesota – Class Schedule for Duluth Campus

Summer 2012

There is one Friday (June 29, 2012) as the make-up for the Memorial Day holiday. Class will meet on 5/24/12 from 7:00am-7:50am, 6/21/12 from 7:00 am-7:50am and 6/29/12 from 12:00 pm -12:50pm.

CSD 8197 Extenshion: Communication Disorders (A-F; prereq: CSD Grad student or instr consent) Full-time professional clinical experience in an approved professional setting under supervision of an ASHA-certified speech-language pathologist.

80980 –001 EX; 06/04/12-07/27; Carlson, Lynette Rene, 4 cr

Class is arranged.

CSD 8231A Internship in Communication Disorders in Persons with Tracheostomy, Ventilator Dependant, & Laryngectomy (A-F; prereq: CSD Graduate School Student or instr consent)

Advanced study of the effects of tracheostomy tubes, ventilators and laryngectomies on the production of speech; diagnostic and therapeutic procedures used in working with individuals with trach vents, or laryngectomies.

81039 –001 WKS; 09/09-11:30am MTTWThF; CHPk 122, 07/09-12/13/12; Limited to 30; Collins, Dana Rose, 4 cr

Course will be taught special term, July 9-13, 2012 from 9:00 am -11:30 am.

COMPUTER SCIENCE (CS)

320 HH, 1114 Kirby Drive, Swenson College of Science & Engineering, Duluth, MN 55812 211-218-726-7607

http://www.d.umn.edu/cs

Swenson College of Science & Engineering

Summer Session

CS 3999 Internship in Computer Science (S-N only; max crs 3; repeat allowed; prereq Comp sci Jr, instr consent)

Practical, independent computer science experience in commercial, industrial, or educational setting. Department approval required before beginning internship.

80583 –001 EX; Colburn, Timothy Robert, 1-3 cr

CS 4991 Independent Study (A-F only; max crs 8; repeat allowed; prereq instr consent)

Directed study of special interest topics not available in the standard curriculum. Must be arranged with the instructor in advance of registration. May include readings, research, or special projects.

80584 –001 IN; Turner, Hudson, 1-4 cr

CS 5991 Independent Study (A-F only; max crs 8; repeat allowed; prereq instr consent)

Directed study of special interest topics not available in the standard curriculum. Must be arranged with the instructor in advance of registration. May include readings, research, or special projects.

80787 –001 IN; Turner, Hudson, 1-4 cr

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

80653 –001 THE; Turner, Hudson, 1-24 cr

CONTINUING EDUCATION (CnEd)

Summer Session

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

Major and career exploration through the use of theoretical models and practical experience. Students explore interests, skills, values, and personality: research educational and occupational options, learn how to integrate the information about themselves and the world of work to assist them in choosing a major.

81286 –350 LEC; Limited to 12; Olsen, Sonja M., 2 cr

(Online Instruction - 8 week course. Students register no later than 6/10/11 and complete all requirements by 7/29/11. Initial course information is available at http://www.d.umn.edu/goto/ceonlineGettingStarted On Your Online Course. In addition to the textbooks, students will need to purchase and complete the StrengthsQuest and Strong Interest Inventory assessments from Career Services. Cost for both assessments is $30.)

CnEd 3010 Internship Preparation (A-F only; prereq WRT 1120, 45 credits and declared major)

This course is designed for students who plan to complete an internship or practicum. Course content will include assessment of self, strengths, interests, values, and skills) and the relationship to career
### University of Minnesota – Class Schedule for Duluth Campus

<table>
<thead>
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<tbody>
<tr>
<td><strong>CRIMINOLOGY (CRIM)</strong></td>
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<tr>
<td>CRIM 3333 Strategic Career Planning</td>
<td>363 LEON, 05/12/12-09/07/12</td>
<td>McFarland, Julie</td>
<td>1 cr</td>
<td>Online Instruction - 8 week course. Students must register no later than 6/10/12 and complete all requirements by 7/29/12. Initial course information is available at [<a href="http://www.d.umn.edu/gto/onlineGettingStarted">http://www.d.umn.edu/gto/onlineGettingStarted</a> On Your Course]. In addition to the textbooks, students will be required to purchase and complete the Online Assessment for Interservice Career Services. Cost of the assessment is $15.)</td>
</tr>
<tr>
<td>CRIM 8600 Practicum in Criminology</td>
<td>805 LEC, 05/12/12-09/07/12</td>
<td>Maahs, Jeffrey</td>
<td>1-6 cr</td>
<td>Directed reading, research, or involvement in an issue leading to the preparation of a paper or other product.</td>
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</table>

### Summer 2012

<table>
<thead>
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<tr>
<td>CRIM 8777 Thesis Credits: Master’s</td>
<td>001 FWK, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>1-15 cr</td>
<td>Supervised direct experience in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
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### CRIMINOLOGY (CRIM) 228 Cina. 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011 218-726-7801 http://www.d.umn.edu/socanth/ College of Liberal Arts

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<tr>
<td>CRIM 3333 Crime and the Media</td>
<td>900 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>3 cr</td>
<td>Examines the relationship between crime, criminal justice and the media. It explores how news and entertainment media portray and influence the criminal justice system and society.</td>
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### CRIMINAL LAW

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<tbody>
<tr>
<td>CRIM 3324 Sociology of Criminal Law</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>3 cr</td>
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<tr>
<td>CRIM 3375 Restorative Justice</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>3 cr</td>
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### CRIMINAL JUSTICE

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<tr>
<td>CRIM 4931 Independent Study in Criminology</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>1-15 cr</td>
<td>Supervised independent study in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
</tr>
<tr>
<td>CRIM 8777 Thesis Credits: Master’s</td>
<td>001 FWK, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>1-15 cr</td>
<td>Supervised direct experience in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
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### CRITICISM (CSt)

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<tr>
<td>CRIT 3050 The Music and Lives of the Beatles</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>3 cr</td>
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### CULTURAL STUDIES (CSt)

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<th>Credits</th>
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<tbody>
<tr>
<td>CULTURAL STUDIES (CSt) 228 Cina. 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011 218-726-7801 <a href="http://www.d.umn.edu/socanth/">http://www.d.umn.edu/socanth/</a> College of Liberal Arts</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Maahs, Jeffrey</td>
<td>1-15 cr</td>
<td>Supervised independent study in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
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### DANCE (DN)

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<tbody>
<tr>
<td>DANCE (DN) 141 MPAC, 1215 Ordane Court, School of Fine Arts, Duluth, MN 55812-3011 218-726-8582 <a href="http://www.d.umn.edu/theatre/">http://www.d.umn.edu/theatre/</a> School of Fine Arts</td>
<td>001 LEC, 05/12/12-09/06/12</td>
<td>Katz Harwood,</td>
<td>3 cr</td>
<td>Supervised independent study in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
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### ENGLISH (ENG)

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<tbody>
<tr>
<td>ENG 2805 Special Topics (Various Titles to be Assigned)</td>
<td>101 LEK, 05/12/12-09/06/12</td>
<td>Katz Harwood,</td>
<td>3 cr</td>
<td>Supervised independent study in a criminal justice agency and a concurrent seminar which focus on identification, evaluation, and application of the implementation of concepts, principles, theories and best practices in criminal justice. Experienced judges, jury, criminal courts, probate and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.</td>
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### This information is accurate as of: 01/20/2012
**ECON 2015 Principles of Economics: Macro**
(A-F only; prerequisites: ECON 1022, Econ major or minor or LSBE cand)\(^{\text{LE CAT7}}\)

Analyzing overall performance of an economic system. National income accounting, unemployment, inflation, fiscal policy, money, monetary policy, economic growth, international trade, non-U.S. economies, and real-world applications of these concepts.

**ECON 2030 Applied Statistics for Business and Economics**
(A-F only; prerequisites: min 30 cr; credit will not be granted if already received for Econ 2030, Stat 3151, and Econ 3151, Psy 3200)\(^{\text{LE CAT6}}\)

Introduction to modern business statistics, emphasizing problem solving through statistical decision making using case studies. Topics include organization and presentation of data, summary statistics, probability theory, distribution functions, statistical inference including estimation, hypothesis testing, introduction to regression and correlation, and introduction to the use of computers in statistical analysis.

**Educ 1101 Education in Modern Society**
(S-N; credit will not be granted if credit has been received for: EDUC 5412; combined with: 80914 EDUC 5412)\(^{\text{LE CAT08}}\)


**Econ 4397 Half-Time Internship**
(S-N; credit will not be granted if credit has been received for: ECON 4497; max crs 6; prerequisites: Econ major, 3023, instr consent)\(^{\text{LE CAT6}}\)

Following written approval of proposal, student engages in supervised half-time work experience in public agency, private business or other organization. Advance, concurrent, and follow-up written and oral presentations required. 40 hr per wk over 15 wk period.

**Econ 4991 Independent Study**
(A-F only; max crs 6; 6 repts allowed; prerequisites: Econ major, 12 cr of Econ 3xxx or above, instr consent)\(^{\text{LE CAT7}}\)

For students wishing to do special work in areas useful to individual programs and objectives and not available in regular course offerings.

**Econ 5412 The Computer in Education**
(A-F only; max crs 6; 6 repts allowed; prerequisites: Pre ed major or educ majors or cand)\(^{\text{LE CAT7}}\)

Introduction to computer use in instructional settings. PC and Mac platforms. Develops basic skills using software commonly used by educators. Teaching strategies using computer-based instruction.

**Econ 5414 The Computer in Education**
(A-F only; max crs 6; 6 repts allowed; prerequisites: Pre ed major or educ majors or cand)\(^{\text{LE CAT7}}\)

Introduction to computer use in instructional settings. PC and Mac platforms. Develops basic skills using software commonly used by educators. Teaching strategies using computer-based instruction.

**Educ 1100 Human Diversity**
(A-F only; meets LE req of LE CAT8; meets LEd req of LEd CAT9)\(^{\text{LE CAT6}}\)


**Educ 1101 Education in Modern Society**
(A-F only; meets LE req of LE CAT8)\(^{\text{LE CAT6}}\)

Survey of educational institutions and practices used in different sectors of society. Historical and philosophical foundations of American education.

**Educ 1102 Early Childhood Studies (ECh)**
University of Minnesota – Class Schedule for Duluth Campus   Summer 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>ECh 7030</td>
<td>Cognitive Development</td>
<td>Harney, Molly A</td>
<td>3 cr</td>
<td>06/14/12-06/22/12, Limited to 20; Harney, Molly A, 3 cr</td>
<td>SBE 50, 06/14/12-06/22/12, Limited to 20; Harney, Molly A, 3 cr</td>
</tr>
<tr>
<td>ECh 3150</td>
<td>Development Economics</td>
<td>Yoon PhD, Jiyoon</td>
<td>3 cr</td>
<td>05/21/12-06/01/12, Limited to 20; Tadesse, Dadosa, 3 cr</td>
<td>SBE 50, 06/14/12-06/22/12, Limited to 20; Tadesse, Dadosa, 3 cr</td>
</tr>
</tbody>
</table>

This information is accurate as of: 01/20/2012
University of Minnesota – Class Schedule for Duluth Campus

Summer 2012

Distance Education Other, Limited to 50: Gulbrandsen, Frank A. 3 cr
This course will be conducted in an on-line learning environment, June 4 - June 29, 2012.

Educ 1201 Managing Planet Earth
(A-F only; meets LE requirements, LE CATB) Environmental education; exploration of key concepts and principles that govern how nature works; potential solutions to environmental issues. 80067 --200 IN, 01/14-02/28, Limited to 30; Boman, Thomas G. 3 cr 4601-001 LEC, 10:30am-12:30pm MTWThF, MonH 239, 01/02/12-02/17/12, Limited to 24; Gliszcinski, Daniel Joseph, 4 cr

Educ 5415 Advanced Educational Media Production
(A-F only; prerequisite: or grad col, 3412 or 5412) Develops basic computer and educational technology skills focusing on using microcomputers for administrative tasks of teaching. 80074 --010 LEC, 08:00am-02:30pm MTWThF, MonH 239, 07/02/12-07/13/12, Limited to 24; Gliszcinski, Daniel Joseph, 4 cr

Educ 5670 Exemplary Models for Science Education
(A-F only; max crs 6; 6 repeats allowed; prereq MEd student; offered summer only; instr consent) Emphasis on hands-on activity and/or integrated curriculum models. 80144 --242 LEC, 06/04-07/12/12, Limited to 25; Munsen, Bruce H. 3 cr

Educ 5991 Independent Study
(A-F only; max crs 8; 8 repeats allowed; prereq instr consent; no Grad School cr) Directed independent study, readings, and/or projects of interest to students in education. 80744 --483 IND, 07/16-07/27, Limited to 24; Yoon PhD, Jiyoon, 4 cr

Educ 7004 Foundations of Educational Research
(A-F only; prereq M.Ed student or MEd student or instr consent; no Grad School cr; credit will not be granted if already received for EHS 7004) Provides foundational knowledge in being a consumer of and conducting scholarly educational research. Designed to provide an orientation to existing educational research and research methods, with a focus on defining a topic, writing a problem statement, and investigating current literature and related research. Includes emphasis on ethical and responsible research protocol with underlying foundations in social justice and reform. 81044 --100 LEC, 09:00am-04:00pm W, SBE 51, 06/27-07/16-07/27, Limited to 20, 4 cr

This course will be conducted in an on-line learning environment from 5/19/11-6/1/11. Students meet face-to-face with their instructor on Wednesday, June 27, 2012, 8:00 AM - 4:00 PM. The remainder of the course is taught in an online learning environment.

Educ 7005 Teaching and Learning in a Systems Context
(A-F only; prereq EdAd student or instr consent; credit will not be granted if already received for EHS 7005) Provides an in-depth investigation of systems theory in an educational context: teaching and learning systems in curriculum, in teaching methods, educational administration and leadership, and educational change. History, current theory, application and tools of systems thinking will be studied. 88001 --001 LEC, 07/09-07/20/12, Limited to 20, 3 cr Registration for EEd Cohort 3 only. Course will meet in an off-campus location.

Educ 7007 Assessment of Learning
(A-F only; max crs 12; 4 repeats allowed; prereq MEd candidate, no Grad School cr; credit will not be granted if already received for EHS 7007) Focuses on the design and application of appropriate learning assessment strategies that consider the pedagogical content, state, federal, and subject standards, and the diversity for all learners. Teaching theory and practice will be viewed in the context of learning assessment.

Educ 8015 Research Design
(A-F; prereq Pay 5052 or equiv, EdD majors or instr consent) An overview of research designs that span qualitative, quantitative, and mixed-methods approaches. The learners will critically examine and select the appropriate research methodology based on a specific question, hypothesis, or problem statement; and interpret and evaluate various research studies. 88003 --001 LEC, 07/09-07/20/12, Limited to 20, 3 cr Registration for EdD Cohort 3 only. Course will meet in an off-campus location.

Educ 8200 Doctoral Seminar
(S-N only; max crs 6; 6 repeats allowed; prereq EdD majors) Review of current research methods, focused practices, or focused strategies for progression with the program or the dissertation. 88001 --001 SEM, 07/09-07/20/12, Limited to 20, 1 cr Registration for EdD Cohort 3 only. Course will meet in an off-campus location.

Educ 8888 Thesis Credit: Doctoral (NGA; max crs 100; 10 repeats allowed; prereq Max 18 cr per semester or summer; 24 or required) 88881 --001 THE, 06/24-07/27/12; Strand, Joyce, 1-24 cr

EDUCATIONAL ADMINISTRATION (EdAd)

EdAd 5913 Communication and Community Relations
(S-N only; max crs 10; 10 repeats allowed; prereq No Grad School cr) Students will meet face-to-face on Saturday, June 9, 2012, 9:00am-11:30am at East Central School District. The remainder of the course is taught in an online learning environment from 5/19/11-6/1/11. Students meet face-to-face with their instructor on Wednesday, June 27, 2012, 8:00 AM - 4:00 PM. The remainder of the course is taught in an online learning environment.

EdAd 5917 EdAd Technology Seminar
(A-F only; max crs 10; 10 repeats allowed; prereq No Grad School cr) This course will be conducted in an on-line learning environment May 14 - June 1, 2012

EdAd 5918 Doctoral Seminar
(S-N only; max crs 10; 10 repeats allowed; prereq No Grad School cr) This course will be conducted in an on-line learning environment from 5/19/11-6/1/11. Students meet face to face on Sunday, Tuesday, Thursday, and Friday, 9:00am-12:00pm. Distance Education Other, Limited to 25; Riordan EdD, Kim L. 3 cr

This course will be conducted in an on-line learning environment from June 4-June 29, 2012

EdAd 8120 Doctoral Seminar
(A-F only; max crs 10; 10 repeats allowed; prereq No Grad School cr) This course will be conducted in an on-line learning environment from 5/19/11-6/1/11. Students meet face to face on T and TH, 6/11-6/12-6/7/12. The remainder of the course is taught in an online learning environment from 7/20/12. Students should contact the Department of Education for a permission number to register.

EdAd 5919 Continuous Improvement Processes for Schools
(S-N only; max crs 10; 10 repeats allowed; prereq EdAd lic program or collegiate grade program admission or instr consent; no Grad School cr) Examines effective data-driven continuous improvement best practices in schools. Learners will examine strategic planning, accreditation processes, state and federal accountability, APP, reporting in order to continue funding and establish effective leadership terms.

81089 --001 LEC, 07/02-07/27/12, 12 instruction mode: Distance Education Other, Limited to 25; Williams, Julia N. 3 cr

This course will be conducted in an on-line learning environment.
EDUCATION, SECONDARY (EdSe)

150 Ede, 412 Library Drive, College of Education and Human Service Professions, Duluth, MN 55812-3029
218-726-7233
http://www.d.umn.edu/edse/

College of Education & Human Service Professions

Summer Session

Ede 4214 Teaching Content-Area Reading

(A-F only; Credit will not be granted if credit has been received for: EDSE 4215, EDSE 4212)
Teaching within 5-12 content-area courses as pedagogy for improving literacy. Developing an understanding of the brain, cognition, and reading. Exploration of stages of literacy, methods for promoting reading, and strategies for improving comprehension. Lesson planning for content-area reading. Diverse learners and critical literacy in the content-area classroom.

80740 --001 LEC, 06/04/12-07/13/12, 12/16/12, 3 cr

Instruction: Distance Education Other...
Section: Limited to 25; Johnson, Christopher William, 2 cr
This course will be conducted in an on-line learning environment.

Ede 4400 Professional Development Seminar for Secondary Education Majors

(A-F only; max crs 3; 3 repeats allowed; prereq Acceptance into EdSe program; no Grad School cr)

81335 --350 LEC, 1 cr

Course will be conducted in an online learning environment.

Eed 6990 Internship in Teaching for Administrators

(A-F only; max crs 3; 3 repeats allowed; prereq Admission to the Ed Ad program)
Intended to assist the candidate in meeting the requirements of the Rules of the MN State Board of Education, Chapter 352.0700 ADMINISTRATIVE LICENSURE WITHOUT TEACHING EXPERIENCE. Subp. 3a. Teaching knowledge and skills. An applicant shall demonstrate basic teaching knowledge and skills as required by part 8710.2000.

87996 --003 IEX, 3 cr

Eed 6997 Internship: Principals

(S-N; prereq EdAd lic program or collegiate graduate program admission or instr consent; no Grad School cr)
To place the candidate for licensure with practicing, licensed principals for a minimum of 320 total hours. Candidates must serve 80 hours of internship with a mentor and students who are not at the level of the candidate's teacher licensure.

87997 --001 IEX, 6 cr

Eed 6998 Internship: Superintendents

(S-N; prereq EdAd lic program or collegiate graduate program admission or instr consent; no Grad School cr)
Candidates for licensure will be working with a practicing, licensed superintendent for a minimum of 320 total hours. University of Minnesota Duluth candidates are also encouraged to seek additional hours in a situation of alternative delivery.

87998 --003 IEX, 6 cr

EDUCATION AND HUMAN SERVICE PROFESSIONS (EHS)

150 EduE, 412 Library Drive, College of Education and Human Service Professions, Duluth, MN 55812-3029
218-726-7233
http://www.d.umn.edu/edu/

College of Education & Human Service Professions

Summer Session

EHS 5990 Research Project

(S-N; max crs 12; 12 repeats allowed)
Faculty-supervised research project required for MEd

89086 --003 LEC, 06/04/12-07/13/12; Ernst, Julie Anne, 1-2 cr

Arranged.

89089 --002 LEC, 06/04/12-07/13/12; Gilbertson, Ken Lloyd, 1-2 cr

Arranged.

89070 --001 LEC, 06/04/12-07/13/12; Zmudny Phd, Mark Howard, 1-2 cr

Arranged.

 ELEMENTARY EDUCATION (EEd)

150 EduE, 412 Library Drive, College of Education and Human Service Professions, Duluth, MN 55812-3029
218-726-7233
http://www.d.umn.edu/edu/

College of Education & Human Service Professions

May Session

EEd 3326 Advanced Literacy & Language: Designing & Implementing a Comprehensive Literacy Program

(A-F only; prereq IESE candidate, 3325)
Second in a sequence of three literacy courses, this course is designed to prepare teacher candidates to create and implement comprehensive and scientifically based literacy instruction in elementary school classrooms.

81205 --030 LEC, 09/09-12:00:00pm MTWHFr. 11:30, 09/14-12/06/12; Stevenson Phd, Jean Myers, 2 cr
Students should contact the Dept. of Education at 726-7233 for permission to register.

Summer Session

EEd 3442 Second Language Acquisition &ELL: How Second Languages are Learned & Methods for Teaching

(A-F only; prereq IESE candidate, 3326; no credit)
English language learners are increasing as a significant number of students.
ES 4901 Independent Study (A-F; max crs 3; prereq 60 cr or instr consent; no Grad School credit) Directed readings and projects for students who wish to do independent advanced study or work on topics not normally covered in other courses.
80789 - 002 IND, 06/04/12-07/27/12; Mageau, Michael T, 1-3 cr

ES 4907 Environmental Studies Internship (S-N; prereq 4900 or 5405, ES major, No Grad School cr; credit will not be granted if already received for PEP 5405) Practical experience in some field of environmental work, under direction of a faculty adviser and a work-site adviser.
80993 - 002 IEX, Mageau, Michael T, 3 cr

EXERCISE SCIENCE ATHLETIC TRAINING (ESAT)

ESAT 2610 Introduction to Athletic Training (A-F only; prereq Pre-athletic training or instr consent; credit will not be granted if already received for PEP 2610) An overview of the responsibilities of an athletic trainer and the athletic trainer’s role as a sports medicine team member, as well as the basic concepts in the prevention, recognition, and care of the physically active.
80807 - 030 LAB, 09:00am-10:00am MTWThF, SpHC 22, 05/14/12-06/01/12, Limited to 20; Streveler, Megan Jane, 4 cr

ESAT 3420 Exercise Testing and Prescription (A-F only; prereq 3400, athletic training or exercise science card or instr consent) Physical fitness programming for adults; principles of exercise testing and prescription.
81036 - 030 LAB, 08:00am-11:30am MTWThF, SpHC 207, 05/14/12-06/01/12, 08:00am-10:55am MTWThF, SpHC 207, 05/14/12-06/01/12, 08:00am-10:55am MTWThF, HS 25, 05/14/12-06/01/12, Limited to 15; Harkins, Kenneth J, 4 cr

ESAT 4996 Internship (S-N; max crs 12; 4 repeats allowed; prereq 3420, exercise candidate, Inst req consent; no Grad School cr) Supervised field internship experience in hospital, fitness facility, or agency setting.
80742 - 030 IEX, 05/14/12-06/01/12, Limited to 10; Harkins, Kenneth J, 3-12 cr

Arranged, Summer Session

ESAT 3300 Human Biomechanics (A-F only; prereq Phys 1001, athletic training card or exercise science card or instr consent) Application of physical laws to human movement. Laws of mechanics and tissue biomechanics concepts are applied to human motor function. (3 hr lect, 1 hr lab)
81037 - 001 LAB, 12:00pm-04:00pm MTWThF, SpHC 305, 06/04/12-06/29/12, 12:00pm-04:00pm MTWThF, FH 25, 06/04/12-06/29/12, Limited to 15, 4 cr

ESAT 4996 Internship (S-N; max crs 12; 4 repeats allowed; prereq 3420, exercise candidate, Inst req consent; no Grad School cr) Supervised field internship experience in hospital, fitness facility, or agency setting.
81037 - 001 IEX, 06/04/12-07/27/12, Limited to 10; Harkins, Kenneth J, 3-12 cr

Arranged, Summer Session

FAMILY MEDICINE (FMED)

FMed 5591 Independent Study (max crs 12; 12 repeats allowed; prereq Department consent) Intensive, independent study project of student’s interest in medical research. Interscholastic fellowship, preceptorship in rural health care delivery, or another medical area approved by Department of Family Medicine.
80651 - 001 LAB, 1-8 cr

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University of Minnesota – Class Schedule for Duluth Campus

Summer 2012

ES 3100 Sustainable Food Systems (A-F only) Historical and contemporary food systems within sustainability framework. Understands food within social, political, economic and environmental contexts. Looks at sustainable production, consumption and processing issues.
88030 - 001 IEX, 09:00am-12:00pm MTWThF, Cina 316, 05/14/12-06/01/12, Limited to 10; Hanson PhD, Randel Dean, 3 cr

ES 4091 Independent Study (A-F; max crs 3; prereq 60 cr or instr consent; no Grad School credit) Directed readings and projects for students who wish to do independent advanced work or study on topics not normally covered in other courses.
80737 - 001 IND, Sigler, Carolyn, 1-3 cr

ENGLISH (Eng) 4996 Outdoor Education Internship (S-N; prereq Rec major, instr consent; no Grad School cr; credit will not be granted if already received for Rec 4996) Supervised field experience in outdoor education.
88421 - 001 IEX, 06/04/12-07/27/12, Limited to 5; Gilbertson, Ken Lloyd, 12 cr

Environmental Studies (ESci) 329 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011 218-726-6300 http://www.d.umn.edu/esci/

Swenson College of Science & Engineering Summer Session

ESCI 3290 Comprehensive Education (S-N; max crs 2; prereq Environmental Science major and dept consent) Practical work experience with an employer closely associated with student's academic area. Arranged by mutual agreement between student, department, and employer. Written report and assessment by non-academic supervisor at the end of the work experience.
81334 - 001 FWK, Limited to 15; Morton, Ron L, 1-2 cr

ESCI 3290 Comprehensive Education (S-N; max crs 2; prereq Environmental Science major and dept consent) Practical work experience with an employer closely associated with student's academic area. Arranged by mutual agreement between student, department, and employer. Written report and assessment by non-academic supervisor at the end of the work experience.
81334 - 001 FWK, Limited to 15; Morton, Ron L, 1-2 cr

ENVIRONMENTAL SCIENCE (ESci) 140 Eng, 1303 Ordean Court, Swenson College of Science & Engineering, Duluth, MN 55812-3011 218-726-6397 http://www.d.umn.edu/esci/

ESAT 2610 Introduction to Athletic Training (A-F only; prereq Pre-athletic training or instr consent; credit will not be granted if already received for PEP 2610) An overview of the responsibilities of an athletic trainer and the athletic trainer’s role as a sports medicine team member, as well as the basic concepts in the prevention, recognition, and care of the physically active.
88037 - 030 LAB, 09:30am-03:30pm MTWThF, SpHC 22, 05/14/12-06/01/12, Limited to 20; Streveler, Megan Jane, 4 cr

ESAT 3420 Exercise Testing and Prescription (A-F only; prereq 3400, athletic training or exercise science card or instr consent) Physical fitness programming for adults; principles of exercise testing and prescription.
88037 - 030 LAB, 09:30am-03:30pm MTWThF, SpHC 22, 05/14/12-06/01/12, Limited to 20; Streveler, Megan Jane, 4 cr

ESAT 4996 Internship (S-N; max crs 12; 4 repeats allowed; prereq 3420, exercise candidate, Inst req consent; no Grad School cr) Supervised field internship experience in hospital, fitness facility, or agency setting.
80742 - 030 IEX, 05/14/12-06/01/12, Limited to 10; Harkins, Kenneth J, 3-12 cr

Arranged, Summer Session

ESAT 3300 Human Biomechanics (A-F only; prereq Phys 1001, athletic training card or exercise science card or instr consent) Application of physical laws to human movement. Laws of mechanics and tissue biomechanics concepts are applied to human motor function.
81037 - 001 LAB, 12:00pm-04:00pm MTWThF, SpHC 205, 06/04/12-06/29/12, 12:00pm-04:00pm MTWThF, FH 25, 06/04/12-06/29/12, Limited to 15, 4 cr

ESAT 4996 Internship (S-N; max crs 12; 4 repeats allowed; prereq 3420, exercise candidate, Inst req consent; no Grad School cr) Supervised field internship experience in hospital, fitness facility, or agency setting.
88427 - 001 IEX, 06/04/12-07/27/12, Limited to 10; Harkins, Kenneth J, 3-12 cr

Arranged, Summer Session

FAMILY MEDICINE (FMED)

FMed 5591 Independent Study (max crs 12; 12 repeats allowed; prereq Department consent) Intensive, independent study project of student’s interest in medical research. Interscholastic fellowship, preceptorship in rural health care delivery, or another medical area approved by Department of Family Medicine.
80651 - 001 LAB, 1-8 cr
FMed 6122 Preceptorship  
(P-A: preq: Regis med student)  
Students spend periods with area physician in family medicine observing problems encountered in this type of practice and methods of primary healthcare is delivered.  
80628 --001 CLN, Limited to 70; Boulger, James G, 4 cr

FMed 6501 Clinical Pathology Conferences I  
(P-A: preq: Regis med student)  
Applying knowledge gained in pathology and laboratory medicine to an unknown clinical case in order to work through a differential diagnosis.  
80629 --001 CST, Limited to 70; Johns, Alan M, 1 cr

FMed 6597 Medical Education for Diversity and Service  
(P-A: preq: UMD Med School student)  
Preparation exercises for intercultural medical education experiences,deferring exercises following intercultural medical education experience.  
81081 --001 DIS, Med 142, Limited to 58; Westra, Ruth E, 1 cr

FMed 7100 Clinical Family Medicine  
(P-A: only; max crs 17; 9 repeats allowed; prereq dept consent; no Grad School credit)  
Supervised care of patients of all ages emphasizing continuous, primary, preventive, acute, and chronic care in all general diagnostic categories.  
80630 --001 CLN, Limited to 30; Westra, Ruth E, 13 cr

FINANCE & MANAGEMENT INFORMATION (FMIS)  
Labovitz School of Business & Economics  
May Session  
FMIS 3141 Business Communications  
(A-F only; preq: LSBE cand or Econ major or college consent)  
Principles of business communication and their application to oral, written, and nonverbal communication.  
80757 --001 LEC, 08:00am-10:55am MTWThF, LSBE 237, 05/14/12-06/01/12, Limited to 55; Combined with: 80785 FMIS 3141: Anders, Daniel Alan, 3 cr  
80785 --002 LEC, 08:00am-10:55am MTWThF, LSBE 237, 05/14/12-06/01/12, Limited to 55; Combined with: 80785 FMIS 3141: Anders, Daniel Alan, 3 cr  
80981 --001 IND, 06/04/12-07/27/12; Li, Dahui, 1-3 cr

FMIS 3601 Corporate Finance  
(A-F only; preq: LSBE cand or approved non-LSBE bus adm minor or college consent)  
Fundamental concepts of managerial financial decision making, Time value of money, valuation, risk and return, financial statement analysis, short-run financial manage-ment, capital budgeting, cost of capital, long-term financ- ing, and corporate taxation.  
80576 --001 LEC, 12:00am-01:55pm MWTThF, LSBE 135, 05/14/12-06/01/12, Limited to 53; Combined with: 80661 FMIS 3601; Lunde, Lai La Sha, 3 cr  
80661 --002 LEC, 12:00am-01:55pm MWTThF, LSBE 135, 05/14/12-06/01/12, Limited to 53; Combined with: 80661 FMIS 3601; Lunde, Lai La Sha, 3 cr  
80733 --002 LEC, 11:00am-01:30pm MTWThF, LSBE 135, 05/04/12-06/01/12, Limited to 7; Combined with: 80733 FMIS 3601; Kliger, Jinglin, J M, 3 cr  
80819 --002 LEC, 12:00am-02:30pm MTWThF, LSBE 135, 05/04/12-06/01/12, Limited to 7; Combined with: 80819 FMIS 3601; Kliger, Jinglin, J M, 3 cr  
80824 --002 LEC, 12:00am-02:30pm MTWThF, LSBE 135, 05/04/12-06/01/12, Limited to 7; Combined with: 80824 FMIS 3601; Kliger, Jinglin, J M, 3 cr  
80904 --002 LEC, 11:00am-01:30pm MTWThF, H 403, 05/14/12-06/01/12, Limited to 30; Rubin, Justin Henry, 3 cr

FMIS 3610 Management Information Systems  
(A-F only; preq: LSBE cand or Econ major or college consent)  
Introduction to the convergence of computing, informa-tion systems, and healthcare with a focus on managing information and developing systems that lead to more effective decisions and actions in healthcare. Covers the standards, ethics and security of the electronic health record.  
80803 --001 LEC, 11:00am-01:55pm MTWThF, LSBE 237, 05/14/12-06/01/12, Limited to 35; Hassan, Nik R, 3 cr

FMIS 3642 XML and Information Management  
(F-A only; preq: 3201 or 3202, 3220 or concurrently, LSBE candidate or college consent; credit will not be granted if already received for 3230)  
Intermediate courses that focuses on the fundamentals of the XML specificaton and its related technolo-gies, including XML Schema, XPath, XQuery, and XSLT. Writing well-formed and valid XML documents, de-fining DTDs and schemas, exchanging and manipulating XML data via an RDBMS, and integrating XML technologies into Web applications will be covered.  
80800 --001 LEC, 08:00am-10:55am MTWThF, LSBE 165, 05/14/12-06/01/12, Limited to 30; Lee, Seung Chan, 3 cr

FMIS 3649 International Finance  
(A-F only; preq: 3601, LSBE cand or college consent)  
Comprehensive framework and analysis for financial management of international firms. International financial markets, exchange rates and international firms, ele-ments of international investments, financing decisions, and strategy formulation.  
80795 --001 LEC, 08:00am-10:30am MTWTh, LSBE 229, 06/04/12-06/29/12, Limited to 40; Wong, Shue Q, 3 cr

FMIS 3691 Independent Study Finance  
(A-F: Credit will not be granted if credit has been received for: FMIS 3291; max crs 2; prereq dept consent)  
For students wishing to do special work in finance that extends beyond, or in greater depth than, regular course offerings.  
80577 --001 IND, 06/04/12-07/27/12; Li, Dahui, 1-3 cr

FREEDOMS (FA)  
School of Fine Arts  
May Session  
FA 1102 Creating Art  
(A-F only; preq: Credit will not be granted if already received for 1101)  
Discussion/direct experience of settings/ways in which art (including aesthetic philosophy and other creative work) arises.  
88046 --001 SEM, 11.00am-01:55pm MTWThF, H 403, 05/14/12-06/01/12, Limited to 30; Rubin, Justin Henry, 3 cr

FOREIGN STUDIES (FORS)  
UdM-Academic Affairs  
Summer Session  
FORS 5990 HILTH 5990 Community Health Italian Style  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
81332 --001 LEC, 05/14/12-06/01/12; Vogelzang, Lisa Marie; Tornabene, Ladona L, 1-20 cr

FORS 1100 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89038 --001 LEC, 1-20 cr

FORS 1101 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89039 --001 LEC, 1-20 cr

FORS 1102 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89040 --001 LEC, 1-20 cr

FORS 1103 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89041 --001 LEC, 1-20 cr

FORS 2200 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89042 --001 LEC, 1-20 cr

FORS 2201 International Education  
(max crs 20; preq: Admission to an approved study abroad program requires consent from the International Education Office.)  
Study abroad course  
89043 --001 LEC, 1-20 cr

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**FOR 2303 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89045 – 001 LEC, 1-20 cr

**FOR 3300 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89046 – 001 LEC, 1-20 cr

**FOR 3301 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89047 – 001 LEC, 1-20 cr

**FOR 3302 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89048 – 001 LEC, 1-20 cr

**FOR 4400 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89050 – 001 LEC, 1-20 cr

**FOR 4401 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89051 – 001 LEC, 1-20 cr

**FOR 4402 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89052 – 001 LEC, 1-20 cr

**FOR 4403 International Education**

(max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course: 89053 – 001 LEC, 1-20 cr

**FOREIGN STUDIES (FST)**

138 KPS, 1208 Kirby Drive, Academic Administration, Duluth, MN 55812-2011

218-726-8764

http://www.d.umn.edu/iec/

**UMD-Academic Affairs**

FOR 2455 Introduction to Maps and Geospatial Information (A-F only; meets LE req of LE CAT2)

This course will define a map and consider maps as tools for communication. Students will explore the effects of scale, projection, cartographic symbolization and generalization on the mapping process and resulting digital databases. Students will be introduced to spatial data models, types of spatial data and representation, and will study alternative or non-traditional map representations provided by GIS and Remote Sensing.

11280 – 001 LEC, 05/14/12-06/29/12, Limited to 30; Lindaman, Dana Kristofer, 4 cr

**Geog 3911 Independent Study in Geography**

(A-F; max crs 6; 6 repeats allowed; prerequisite instructor consent)

For students interested in doing advanced work in selected fields of geography.

80596 – 001 IND, 05/14/12-06/12/12; Zhu, Tonglin, 4 cr

**Geog 3997 Internship in Geography**

(max crs 8; 8 repeats allowed; prerequisite Max 4 cr or instructor consent)

Scheduled assignments with direct supervision in public agencies or relevant private firms.

80845 – 001 IE1, 05/14/12-06/12/12; Zhu, Tonglin, 1-6 cr

**Geog 5991 Independent Study in Geography**

(A-F; max crs 6; 6 repeats allowed; prerequisite Max 4 cr or instructor consent)

Independent problems for postbaccalaureate students interested in doing advanced work in selected fields of geography.

80847 – 001 IND, 05/14/12-06/12/12; Zhu, Tonglin, 1-6 cr

**Geography (Geog)**

329 Cina. 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-2011

218-726-6300

http://www.d.umn.edu/geog/

**College of Liberal Arts**

Fr 2301 Advanced French (A-F only; prerequisite 5 yrs high school Fr or 1202 or instructor consent; meets LE req of LE CAT3; meets LEIP req of LEIP CAT03)

Development of French literacy within a culturally authentic contemporary context. Emphasis on practical writing and formal oral and aural communication skills; vocabulary building; enhancement of reading skills; review of key grammar. Taught in French.

11114 – 100 LEC, 10:00am-11:55am MTWTh, Monor 203, 05/14/12-06/29/12, Limited to 30; Liddaman, Dana Kristofer, 4 cr

**Geol 2482 Intro to Geology**

136 KPS, 1208 Kirby Drive, Academic Administration, Duluth, MN 55812-2011

218-726-8764

http://www.d.umn.edu/geology/

**Geological Sciences**

11280 – 001 LEC, 05/14/12-06/29/12; Zhu, Tonglin, 4 cr
University of Minnesota – Class Schedule for Duluth Campus

Summer 2012

Geol 8333 FTE: Master’s (NGA: prereq Master’s student, adviser and DGS consent)
B0666 – 001 DRS, 1 cr

Geol 8444 FTE: Doctoral (NGA: prereq: preq doctoral student, adviser and DGS consent)
B0668 – 001 DRS, 1 cr

Geol 8666 Doctoral Pre-Thesis Credits (NGA: max crs 12; prereq: Max 6 cr or per semester or summer; departmental consent required for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to a total of 12 cr or 24 cr for total of doctoral students admitted summer 2007 and beyond; doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr)
B0000 – 001 ThE, 1-6 cr

Geol 8777 Thesis Credit: Master’s (NGA: max crs 50; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr or total required (Plan A only))
B0672 – 001 ThE, 1-18 cr

Geol 8888 Thesis Credits: Doctoral (NGA: max crs 100; 10 repeats allowed; prereq (max 18 cr per semester or summer); 24 cr required)
B0674 – 001 ThE, 1-24 cr

GERMAN (Ger)

University of Minnesota – Class Schedule for Duluth Campus   Summer 2012

Ger 2315  German Film: History and Analysis
Eligibility: Admittance as an undergraduate student; Meet prerequisites; Instructor consent required. Registration is on a zero-credit registration mechanism for Grad School students who has not passed prelim exam; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to a total of 12 cr or 24 cr for total of doctoral students admitted summer 2007 and beyond; doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr)
(No description)
B0670 – 001 ThE, 1-6 cr

Ger 3115 Consumer Health Education
(A-F only; prereq Min 30 credits)
Overview of concepts of marketing, analysis, selection, and decision making regarding health care, products, services, and providers.
B1113 – 030 LEI, 05/04/12-05/25/12, Limited to 20; Versnik Nowak, Amy L 3 cr
Students must register by May 14, 2012 and complete all requirements by June 1, 2012. No exceptions. Initial course information will be sent to your UMD e-mail account. To activate your account go to https://www.umn.edu/initiate and follow the directions.

Ger 3990 Special Topics: (Various Titles to be Assigned)
(A-F only; max crs 6; 6 repeats allowed; prereq instr consent)
Opportunity for upper-division and graduate students to explore current issues. Various health-related problem areas; emphasis on facilitating positive attitudinal and behavioral changes within clients/students.
B80936 – 001 LEC, 05/14/12-06/14/12; 12 cr; T: GER 3040 Expanded Research Project in Petoskey; Mullins, Michael John, 3 cr
B1100 Health and Wellness Strategies for Life
(A-F only; meets LE req of LE CAT8; meets LEIP req of LEIP CAT08)
A lecture series introducing students to health and wellness encompassing nutritional, physical, emotional and spiritual aspects of health and well-being with emphasis on behavioral, environmental and social influences on developing a satisfying and productive lifestyle in our society.
B80966 – 001 LEC, 06/04/12-06/29/12; T: Hawaiani Way. Short-term study abroad, days TBD.)

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B80966 – 001 LEC, 06/04/12-06/29/12; T: Hawaiani Way. Short-term study abroad, days TBD.)

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(A-F only; meets LE req of LE CAT8; meets LEIP req of LEIP CAT08)
A lecture series introducing students to health and wellness encompassing nutritional, physical, emotional and spiritual aspects of health and well-being with emphasis on behavioral, environmental and social influences on developing a satisfying and productive lifestyle in our society.
B80966 – 001 LEC, 06/04/12-06/29/12; T: Hawaiani Way. Short-term study abroad, days TBD.)
MgtS 3401. Organizational Behavior and Management (A-F; prereq: LSBE cand or bus adm minor or college consent) Introduction to organizations, management processes, and understanding human behavior at work. Covers the effects of the external environment, organizational structure, job design, teams, and leadership on employee attitudes, motivation, and behavior. 80579 --001 LEC, 11:00am-12:05pm MTWThF, LSBE 129, 05/14/12-06/01/12, Limited to 52; Combined with: 80662 MGMT 3401; Chen, Xianneng, 3 cr (LSBE candidates) 80662 --002 LEC, 11:00am-12:05pm MTWThF, LSBE 129, 05/14/12-06/01/12, Limited to 52; Combined with: 80579 MGMT 3401; Chen, Xianneng, 3 cr (Non-LSBE Business Adm minors)

MgtS 3401. Organizational Resource Management (A-F; prereq: LSBE cand or approved non-LSBE bus adm or college consent) Introduction to theory and practice of human resource management in private and public organizations. Organizational, legal, and ethical influences on major personnel functions, including planning, staffing, training, performance appraisal, compensation, and labor-management relations. 80612 --001 LEC, 08:00am-10:55am MTWThF, LSBE 135, 05/14/12-06/01/12, Limited to 52; Combined with: 80663 MGMT 3401; Xu, Lin, 3 cr (LSBE candidates) 80663 --002 LEC, 08:00am-10:55am MTWThF, LSBE 135, 05/14/12-06/01/12, Limited to 8; Combined with: 80579 MGMT 3401; Chen, Xianneng, 3 cr (Non-LSBE Business Adm minors)

MgtS 4411. Strategic Management (A-F; prereq: 3401, 3801, Mktg 3701, FMIS 3301, FMIS 3691, 90 cr, LSBE cand or college consent) The design and administration of compensation and benefits policies and practices, and the integration of individual and organizational performance management systems. 80581 --001 LEC, 11:00am-12:05pm MTWThF, LSBE 165, 05/14/12-06/01/12, Limited to 24; Pierce, Jon, L 3 cr

MgtS 4431. Compensation Systems (A-F; prereq: 3801, LSBE cand or college consent) Theory, design, and practice of employee compensation systems. Impacts of compensation, economic and institutional forces influencing employer compensation policies and practices, supplemental forms of compensation and administration practices. 80806 --001 LEC, 08:00am-10:55am MTWThF, LSBE 233, 05/14/12-06/01/12, Limited to 40; Robbenfield, Stephen A, 3 cr

MgtS 4861. International Human Resource Management (A-F; prereq: 3801, LSBE candidate or instr consent) Course combines theories of culture with HRM applications to develop students' awareness of cultural issues as they apply in the workplace. 80193 --001 LEC, 11:30am-02:25pm MTWThF, LSBE 125, 05/14/12-06/01/12, Limited to 40; David, Jennifer Gregory, 3 cr Summer Session

MgtS 4941. Independent Study (A-F; max crs 3; 6 repeats allowed; prereq: Department consent) Directed reading and/or research. 80552 --001 IND, 1.3 cr

Ling 3591. Independent Study in Linguistics (A-F only; max crs 6; 6 repeats allowed; prereq 1811 or instructor consent, department consent) Directed research and/or research. 80552 --001 IND, 1.3 cr

Ling 4952. Teaching Assistantships in Linguistics (A-F only; Credit will not be granted if credit has been received for LING 5952; A-F; max crs 3; prereq 1811, 3101, 3102 or instructor consent, no Grad School cr) Students gain practical experience in teaching-related activities for introductory linguistics courses. Students assist the instructor in administration of the class. 88798 --001 PRC, Sprat, John Michael, 1.3 cr

Ling 8591. Independent Study in Linguistics (A-F only; max crs 6; 6 repeats allowed; prereq: Department consent) Directed reading and/or research. 80553 --001 IND, 1.3 cr

Ling 8591. Independent Study in Linguistics (A-F only; max crs 6; 6 repeats allowed; prereq: Department consent) Directed reading and/or research. 80553 --001 IND, 1.3 cr

MAPL 5400. Political Organizing and Advocacy in the Digital Age (A-F only; prereq Grad student or instr consent) Focus on digital technologies for advocacy and organizing and the challenges for democracy in a digital age. Student will (1) consider the opportunities and risks of social media for connected activism and public-policy making, (2) explore issues relating to digital justice and regulatory and policy issues affecting digital networks, (3) use existing software and application to find the data and research needed to build communities and make informed policy. 88596 --001 DIS, instruction mode: Distance Education Other, 3 cr

Master of Business Administration (MBA) 21 SBE, 412 Library Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011 218-726-8986 http://www.umn.edu/lsbe/mba.php

LBS 4000. Political Organizing and Advocacy in the Digital Age (A-F only; prereq Grad student or instr consent) Focus on digital technologies for advocacy and organizing and the challenges for democracy in a digital age. Student will (1) consider the opportunities and risks of social media for connected activism and public-policy making, (2) explore issues relating to digital justice and regulatory and policy issues affecting digital networks, (3) use existing software and application to find the data and research needed to build communities and make informed policy. 88596 --001 DIS, instruction mode: Distance Education Other, 3 cr

Master of Business Administration (MBA) 21 SBE, 412 Library Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011 218-726-8986 http://www.umn.edu/lsbe/mba.php

LBS 4000. Political Organizing and Advocacy in the Digital Age (A-F only; prereq Grad student or instr consent) Focus on digital technologies for advocacy and organizing and the challenges for democracy in a digital age. Student will (1) consider the opportunities and risks of social media for connected activism and public-policy making, (2) explore issues relating to digital justice and regulatory and policy issues affecting digital networks, (3) use existing software and application to find the data and research needed to build communities and make informed policy. 88596 --001 DIS, instruction mode: Distance Education Other, 3 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Dates</th>
<th>Times</th>
<th>Location</th>
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<tbody>
<tr>
<td>Math 1250</td>
<td>Precalculus Analysis</td>
<td>5</td>
<td>Froncek, D.</td>
<td>05/14/12-06/29/12</td>
<td>10:00am-12:00pm</td>
<td>SBE 20</td>
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<td>Math 1260</td>
<td>Integral Calculus</td>
<td>5</td>
<td>Regal, R.</td>
<td>05/14/12-06/29/12</td>
<td>10:00am-12:00pm</td>
<td>SBE 20</td>
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<tr>
<td>Math 1296</td>
<td>Calculus I</td>
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<td>Regal, R.</td>
<td>05/14/12-06/29/12</td>
<td>10:00am-12:00pm</td>
<td>SBE 20</td>
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<td>Math 1297</td>
<td>Calculus II</td>
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<td>Regal, R.</td>
<td>05/14/12-06/29/12</td>
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<td>SBE 20</td>
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<tr>
<td>Math 1298</td>
<td>Calculus III</td>
<td>5</td>
<td>Regal, R.</td>
<td>05/14/12-06/29/12</td>
<td>10:00am-12:00pm</td>
<td>SBE 20</td>
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<tr>
<td>Math 2230</td>
<td>Differential Equations</td>
<td>3</td>
<td>Regal, R.</td>
<td>05/14/12-06/29/12</td>
<td>10:00am-12:00pm</td>
<td>SBE 20</td>
</tr>
</tbody>
</table>

For a complete list of courses and their descriptions, please refer to the University of Minnesota—Duluth Campus class schedule for Summer 2012.
MECHANICAL ENGINEERING (ME) 05 VHR, 1305 Ocean Run Court, Swenson College of Science & Engineering, Duluth, MN 55812-3011 218-726-6161 http://www.d.umn.edu/me

Swenson College of Science & Engineering Summer Session

ME 4196 Cooperative Education (A-F only; Credit will not be granted if credit has been received for: IE 4196; max crs 2; prereq BMSE cand, instr consent, grad student; practical work experience with employer closely associated with student's academic area; arranged by mutual agreement among student, department, and employer; biweekly status reports and final written report must be submitted to department)

80836 --001 IND; Nederland PhD, Ryan G, 1 cr

ME 4491 Independent Study in Mechanical Engineering (max crs 4; max crs 4; repeats allowed; prereq Sr standing in engineering discipline, instr consent) Directed study of special interest topics not available in standard curriculum. Must be arranged with instructor before registration. May include readings, research and/or practical experience

80835 --001 IND; Zhou, Deboo, 1 cr

MEDICAL AND MOLECULAR PHYSIOLOGY (Phsi) 308 MED, 135 University Drive, University of Minnesota Medical School Duluth, Duluth, MN 55812-3011 218-726-8551 http://www.med.umn.edu/duluth/about/home.html

Medical School - Duluth Campus

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

80619 --001 THE; 05/14/12-06/01/12, 1/18 cr

Phsi 8888 Thesis Credits: Doctoral (NGA; max crs 100; 10 repeats allowed; max crs 18 per semester or summer; 24 cr required)

80620 --001 THE; 05/14/12-06/01/12, 1/24 cr

Summer Session

MEDICINE (Med) 141 MED, 135 University Drive, University of Minnesota Medical School Duluth, Duluth, MN 55812-3011 218-726-8555 http://www.med.umn.edu/duluth/about/home.html

Medical School - Duluth Campus

Med 105 High School Super Stars (S-N; 5 repeats allowed; prereq department consent) Utilizing problem based learning to improve content and process knowledge in human science based topics

81162 --001 CST; 06/04/12-07/27/12; Dorschier, Jocelyn Ann, 0 cr

Med 205 On Campus Native Americas Into Medicine (S-N; 5 repeats allowed; prereq Department consent) Using a system based approach students will learn about the development, structure, normal and abnormal function and evaluation of a given human system. Students will participate in lectures, group discussion, and educational competencies. The preceptorship course will occur in conjunction with Rural Family Medicine.

81330 --001 IND, Limited to 60; 5 cr

Med 6762 Hormonal and Reproductive Medicine (P-N; prereq Med student) Interdisciplinary study of endocrinology and reproductive systems. Essential background for understanding findings of clinical medicine related to endocrine regulation of reproduction and homeostasis.

80683 --001 IND, Limited to 70; Krafts MD, Kristine Pauline, 9 cr

Med 6878 Skin/Musculoskeletal System (P-N; prereq Med student) Interdisciplinary study of integument and musculoskeletal system. Basic sciences of anatomy, microbiology, pathology, pharmacology, and physiology correlated with clinical material.

80684 --001 IND, Limited to 70; Repsch, Lillian A, 5 cr

Med 6997 Summer Internship in Medicine (P-N only; max crs 12; prereq Regis med student) 1st year of medical school, instr consent; no Grad School credit) Medical students, typically between their first and second-year of medical school, may elect to participate in either directed clinical experiences in small communities or research studies.

80730 --001 IEX, 05/05-09/09/12, Limited to 55; Chris- tensen MD, Raymond G; Boulger, James G, 3-12 cr

80927 --085 IEX, 05/05-09/09/12, Limited to 55; Chris- tensen MD, Raymond G, 3-12 cr

MUSIC (Mu) 231 H 1201 Oranded Court, School of Fine Arts, Duluth, MN 55812-3011 218-726-8208 http://www.d.umn.edu/music/ School of Fine Arts

Mu 3600 Music in the Elementary Classroom (A-F only; prereq Elementary/middle school teacher education candidate; credit will not be granted if already received for MU 3601) Functional skills, methods, and materials for teaching music in elementary school classrooms: Music notation, elements of music, philosophies and methodologies, curriculum design and implementation, integrated arts experiences.

81299 --001 IEX; 09:00am-11:55am MTWThf; H 170, 05/14-06/01/12, Limited to 18; Thielen-Gaffey, Lena, 3 cr

Summer Session

Mu 1001 Introduction to Music (prereq Not for music majors or minors; meets LEQ of LE CAT9; meets LEQ of LE CAT90)

This information is accurate as of: 01/20/2012
University of Minnesota – Class Schedule for Duluth Campus

Summer 2012

Pharm 1002  Health Sciences Terminology
How to analyze; build words by using combining forms, suffixes, and prefixes. Course information is sent to U email address of registered students. Partially Internet-delivered course.

Pharm 1003  Non-Prescription Medications and Self-Care
Treating Minor Conditions
Self study, Nonprescription medication, self care. How to become informed consumer of over-the-counter medications and testing devices. Textbook supplemented with online course work. Partially Internet-delivered course.

Pharm 1004  Common Prescription Drugs and Diseases
Self study. Frequent prescribed medications. Conditions medications are intended to treat. Diagnostic criteria, complications, mechanism-of-action, side effects. Direct-to-consumer advertising. Students use Vista to view presentation, download materials, and complete study guides. Partially Internet-delivered course.

Pharm 1005  Introduction to Drug Therapies of Addition: Medicine or Monarch?

Pharm 3001  Basic Human Physiology for the Health Professions
(A-F; max crs 6; pre-req Medical terminology and anatomy) Pre-health professional students to prepare for more in depth courses. Normal functions (physiology) for the major human organ systems and diseases (pathophysiology) in those systems.

Pharm 3700  Fundamentals of Pharmacotherapy
(A-F; Credit will not be granted if credit has been received for: PHAR 5700; pre-req Medical terminology) Drug therapy. Emphasizes recognition of brand/generic drug names, their therapeutic classes and common uses. Use of drug information resources.

Pharm 3701  Applied Fundamentals of Pharmacology
(S-N; max crs 5; 3 repeats allowed; prereq instr consent) Directed research in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Pharm 6602  Doctoral Pre-Thesis Credits
(NGA: max crs 15; 5 repeats allowed; pre-req): Doctoral student who has not passed preim oral; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to an additional 12 cr, or 24 cr, or 60 cr (for doctoral students admitted summer 2007 and beyond); doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr)

Pharm 8888  Thesis Credits: Doctoral
(NGA: max crs 100; 10 repeats allowed; pre-req): Doctoral student who has not passed preim oral; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to an additional 12 cr, or 24 cr, or 48 cr (for doctoral students admitted summer 2007 and beyond); doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr)

Pharm 9494  Directed Research in Pharmacology I
(A-F: only max crs 10; pre-req upper div sci major, instr consent) Directed Research in Pharmacology

Pharm 9333  FTE: Master's
(NGA: pre-req Master's student, adviser and DGS consent)

Pharm 6606  Doctoral Pre-Thesis Credits
(NGA: max crs 12; pre-req Max 18 cr or per semester or summer; 10 or total required (Plan A only))

Pharm 8888  Thesis Credits: Doctoral
(NGA: max crs 100; 10 repeats allowed; pre-req Max 18 cr or per semester or summer; 24 cr or required)

Pharm 9333  FTE: Master's
(NGA: pre-req Master's student, adviser and DGS consent)

Pharm 6606  Doctoral Pre-Thesis Credits
(NGA: max crs 12; pre-req Max 18 cr or per semester or summer; 10 or total required (Plan A only))

Pharm 8888  Thesis Credits: Doctoral
(NGA: max crs 100; 10 repeats allowed; pre-req Max 18 cr or per semester or summer; 24 cr required)
This information is accurate as of: 01/20/2012
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Session Dates</th>
<th>Location</th>
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<tr>
<td>Psy 3111</td>
<td>Theories of Personality (A-F only; prereq 1003)</td>
<td>Kivi, Carol Susan</td>
<td>3 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
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<tr>
<td>Psy 3121</td>
<td>Abnormal Psychology (A-F only; prereq 1003 or instr consent)</td>
<td>Luong, Andrew</td>
<td>3 cr</td>
<td>05/14/12-05/25/12</td>
<td>218-726-7245</td>
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<td>Psy 3201</td>
<td>Social Psychology (A-F only; instr consent)</td>
<td>LaCaille, Rick A</td>
<td>4 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
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<tr>
<td>Psy 3211</td>
<td>Group Dynamics (A-F only; prereq 1003 or instr consent)</td>
<td>Luong, Andrew</td>
<td>3 cr</td>
<td>05/14/12-05/25/12</td>
<td>218-726-7245</td>
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<tr>
<td>Psy 3215</td>
<td>Topics in Human Sexuality (A-F only; Credit will not be granted if credit has been received for: P5Y 3216; prereq 1003 or instr consent)</td>
<td>Peder sen, Paula Jean</td>
<td>3 cr</td>
<td>05/14/12-05/25/12</td>
<td>218-726-7245</td>
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<tr>
<td>Psy 3371</td>
<td>Child and Adolescent Psychology (A-F only; prereq 1003)</td>
<td>LaCaille, Rick A</td>
<td>4 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
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<td>Psy 3520</td>
<td>Introduction to Industrial/Organizational Psychology (A-F only; prereq 1003 or instr consent; credit will not be granted if already received for 3701 or 3707)</td>
<td>LaCaille, Rick A</td>
<td>4 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
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<td>Psy 3525</td>
<td>Behavior Analysis in the Workplace (A-F only; prereq 1003)</td>
<td>LaCaille, Rick A</td>
<td>4 cr</td>
<td>06/04/12-06/22/12</td>
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<tr>
<td>Psy 3540</td>
<td>Psychology of Food Abuse (A-F only; prereq 1003 or instr consent)</td>
<td>LaCaille, Rick A</td>
<td>4 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
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<td>Psy 3613</td>
<td>Behavior Modification (A-F only; prereq 3 or Psy)</td>
<td>LaCaille, Rick A</td>
<td>3 cr</td>
<td>06/04/12-06/22/12</td>
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<td>Psy 3707</td>
<td>Organizational Psychology (A-F only; prereq 1003)</td>
<td>LaCaille, Rick A</td>
<td>3 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
<tr>
<td>RECREATION (Rec)</td>
<td>110 Spht, 2216 Ortendal Court, College of Education and Human Service Professions, Duluth, MN 55812-3011</td>
<td>LaCaille, Rick A</td>
<td>3 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
</tbody>
</table>

**Summer Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Session Dates</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>R88884</td>
<td>Directed Research in Psychology (A-F only; max crs 8; 8 repeats allowed; prereq Psy major or minor, instr consent)</td>
<td>LaCaille, Rick A</td>
<td>8 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
<tr>
<td>R88885</td>
<td>Research Practicum (S-N only; prereq ENED 4103, PETS 3508 and instr consent; no grad credit)</td>
<td>LaCaille, Rick A</td>
<td>8 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
<tr>
<td>R88886</td>
<td>Internship in Environmental Health and Safety (S-N only; prereq MEHS 4993 student, dept consent)</td>
<td>LaCaille, Rick A</td>
<td>8 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
<tr>
<td>R88887</td>
<td>Social Work (SW) (max crs 12; 12 repeats allowed)</td>
<td>LaCaille, Rick A</td>
<td>12 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
<tr>
<td>R88888</td>
<td>Intervention in Family Violence (A-F; max crs 2; prereq 4 or sr or grad student or instr consent)</td>
<td>LaCaille, Rick A</td>
<td>2 cr</td>
<td>06/04/12-06/22/12</td>
<td>218-726-7245</td>
</tr>
</tbody>
</table>
University of Minnesota – Class Schedule for Duluth Campus

5032 Child Welfare and the Law

Advanced research course in the federal, state, and local laws and courts regulating child welfare practice. Includes laws and regulations and the role of the social worker in legal proceedings.

5911 Independent Study

Research project in any area of sociology, demography, or related social science field leading to preparation of a paper or other product.

5996 Special Project

Directed reading, research, or involvement in social action leading to preparation of a paper or other product.

5280 Addressing Alcohol Related Problems in Social Work Practice

This is a hybrid course and specified as "A-F; prereq 8101 or admission to advanced standing Social Work Program (Field I for Standard Students and Field II for Advanced Students)."

5290 Pre-Field Work

This is a hybrid course and specified as "A-F only; max crs 6; 6 repeats allowed; prereq instr consent; Approval of faculty sponsor and field coordinator required to do a project in generalist or advanced generalist social work practice. Project may closely coordinate with another course or may be an independent area of interest."

5999 Professional Practice

This is a hybrid course and specified as "A-F only; max crs 6; 6 repeats allowed; prereq instr consent; Approval of faculty sponsor and field coordinator required to do a project in generalist or advanced generalist social work practice. Project may closely coordinate with another course or may be an independent area of interest."

SpEd 4433 Foundations in Special Education
(A-F only) Credit will not be granted if credit has been received for: SPED 5433; prereq Min 45 cr, postbac grad or sped minor, no Grad School cr) Overview of children with disabilities. Special emphasis will be placed on characteristics of exceptional children; the legal aspects of educating students with disabilities; and assessment, instructional, and collaborative strategies. Practicum.
81318 --350 LEC, 05/14/12-08/17/12, Limited to 4; Nieren-garten EdD, Gerry, 4 cr
(Online Instruction. Initial course information is available at http://www.d.umn.edu/goto/ceonlineGetting Started On Your Online Course.)

SpEd 4455 Transitional Planning for Adolescents With Disabilities
(A-F only; Credit will not be granted if credit has been received for: SPED 4455; prereq 5433 or 4433, postbac grad or instr consent) Assessment procedures, planning and instructional methods to help students with disabilities make the transition from school to postsecondary, education, and employment. Practicum.
81137 --100 LEC, 09:00am-02:00pm M, SBE 51, 06/11-12/ 06/11-12; Limited to 4; Combined with: 81136 SPED 4455; Hughes, Trudie Ann, 4 cr (Class meets in a classroom June 11, 2012. Remainder of the course is taught in an online learning environment, June 11 through July 27, 2012.)

SpEd 4585 Individual Education Plans: Development and Implementation
(A-F only; Credit will not be granted if credit has been received for: SPED 5585; prereq 4433 and 4204, no Grad School cr) Historical perspective of the Individual Education Plan (IEP), its professional significance in education and the impact of the IEP on students and teachers in special education. Explores procedural guidelines, development of the IEP, assessment, instructional, and collaborative strategies to help students with disabilities make the transition from school to postsecondary education, and employment. Practicum.
81136 --100 LEC, 09:00am-02:00pm M, SBE 51, 06/11-12/ 06/11-12; Limited to 16; Combined with: 81137 SPED 4455; Hughes, Trudie Ann, 4 cr (Class meets in a classroom June 11, 2012. Remainder of the course is taught in an online learning environment, June 11 through July 27, 2012.)

SpEd 5580 Foundations of Fetal Alcohol Spectrum Disorder
(A-F only; prereq 4433; credit will not be granted if already received for: 4850) Overview of Fetal Alcohol Spectrum Disorder, including prevention, development, range of severity, historical and current perspectives, legal issues, current research, diagnosis, primary and secondary disabilities, impact on development, and impact on family and community.
81139 --100 LEC, 09:00am-02:00pm M, SBE 51, 07/09-12/ 07/09-12; Limited to 20; Nieren-garten EdD, Gerry, 3 cr (Class meets in a classroom Tuesday, June 26; 8:00 AM - 4:00 PM. The remainder of the course is taught in an online learning environment through July 29, 2012.)

SpEd 7100 Professional Issues in Special Education
(A-F only; prereq Acceptance into master’s of special education program) Provides graduate students a seminar to write about and discuss current professional issues raised in recognized journals within the field of special and general education (e.g., journals, education news sources, and topical conferences).
81010 --100 LEC, 08:00am-04:00pm T, SBE 51, 06/26-12/ 06/26-12; Limited to 4; Nieren-garten EdD, Gerry, 3 cr (Class meets in a classroom Tuesday, June 26, 8:00 AM - 4:00 PM. The remainder of the course is taught in an online learning environment through July 29, 2012.)

SpEd 7800 Special Education Law
(A-F only; prereq Acceptance into master’s of special education program) Examination of special education statutory law and case law, principles of Individuals with Disabilities Act, Americans with Disabilities Act, and Section 504 of the Rehabilitation Act.
81806 --100 LEC, 08:00am-04:00pm T, SBE 32, 06/26-12/ 06/26-12; 06/25-12/29, Limited to 10; Hughes, Trudie Ann, 3 cr (Students meet with their instructor face-to-face on Tuesday, June 26, 8:00 AM - 4:00 PM. The remainder of the course is taught in an online learning environment through July 29, 2012.)

STATISTICS (Stat)
140 SCC, 1171 University Drive, Swenson College & Science Engineering, Duluth, MN 55812-3000

Swenson College of Science & Engineering

May Session
Stat 8444 FTE: Doctoral
(NGA: prereq Doctoral student, adviser and DGS consent) 80658 --011 DRS, 06/04-12/07/12; Regal, Ronald Ray, 1 cr

Stat 8888 Thesis Credits: Doctoral
(max crs 100; 10 repeats allowed; prereq max 18 cr per semester; summer, 24 cr required) 80624 --002 THE, 05/14-12/06/12; Regal, Ronald Ray, 1-2 cr Summer Session
Stat 2411 Statistical Methods
(A-F only; prereq Math 23 or higher or a grade of at least C in Math 1250 or higher or dept consent; meets LE req of LE CAT2) Graphical and numerical descriptions of data, elementary probability, sampling distributions, estimations, confidence intervals, one-sample and two-sample t-test.
81127 --001 LEC, 09:00am-10:45am MTWTh; SBE 16, 06/04-12/06/12, Limited to 40, 4 cr

Stat 3611 Introduction to Probability and Statistics
(A-F only; prereq A grade of at least C in Math 1290 or Math 1296) Basic probability, including combinatorial methods, random variables, mathematical expectation. Binomial, normal, and other standard distributions. Moment-generating functions. Basic statistics, including descriptive statistics and sampling distributions. Estimation and statistical hypothesis testing.
80545 --001 LEC, 09:30am-11:15am MTWTh; ABAH 235, 05/14-12/06/29, Limited to 40; Duan, Mingqian, 4 cr

THEATRE (Th)
141 MPAC, 1215 Ordean Court, School of Fine Arts, Duluth, MN 55812-3070
218-726-8562
http://www.d.umn.edu/theatre/

School of Fine Arts

May Session
Th 3451 Stage Makeup
(A-F only; prereq 1801 or instr consent) Introduction to principles and materials of stage makeup and its application as developing a character makeup for theatrical productions.
80990 --010 LEC, 01:00pm-04:30pm MTWTh; MPAC 21, 05/14-12/06/12, Limited to 12; Dennis, Patricia, 3 cr

Th 3551 Introduction to Documentary Filmmaking
(A-F only; max crs 6) The study of the principles of documentary filmmaking with hands-on experience in producing and publishing a documentary film.
81226 --001 LEC, 01:00pm-03:55pm MTWTh, MPAC 51, 05/14-12/06/12, Limited to 12, 3 cr

Th 3552 Film Festival Production
(A-F only; max crs 6) The study of and practice in the production of an international film festival including programming, corporate sponsorship, staff and board roles, marketing and media trends.
81277 --001 LEC, 01:00pm-03:55pm MTWTh, H 314, 05/14-12/06/12, Limited to 30, 3 cr Summer Session

Th 2051 Introduction to Film
(A-F only; meets LE req of LE CAT5) History and genres of film; how movies are made. Watch and analyzing films and developing an articulate and discerning viewpoint.
80625 --001 LEC, 06/04-12/07/12; Limited to 20; Isbell, Tom K, 3 cr

Th 5991 Independent Study in Theatre
(A-F only; max crs 6; 4 repeats allowed; prereq Sr, dept consent; undergrad max 6 cr in 3991 and 9991 com- bined; no Grad School credit) Directed, advanced readings and projects arranged between student and faculty mentor.
80880 --001 IND, 05/12-12/07/12; Limited to 35; Harvey, Mark A, 1-2 cr

Th 5997 Internship in Professional Theatre
(S-N only; max crs 12; 12 repeats allowed; prereq dept consent; 1 cr for each 45 hrs work; no Grad School credit) Internship with a cooperating professional, commercial, or repertory theatre.
80741 --001 IEX, 06/04-12/07/12; Limited to 4; Harvey, Mark A, 1-2 cr

TOXICOLOGY (Txl)
236 Smed, 213 University Drive, University of Minnesota Medical School Duluth, Duluth, MN 55812-3011
218-726-8892
http://www.d.umn.edu-medweb/toxicology/

Medical School - Duluth Campus

May Session
Txl 8333 FTE: Master’s
(NGA: prereq Master s student, adviser and DGS consent) 80626 --002 DRS, 05/14-12/06/12, Limited to 1, 1 cr

Txl 8444 FTE: Doctoral
(NGA: prereq Doctoral student, adviser and DGS consent) 80682 --002 DRS, 05/14-12/06/12, Limited to 1, 1 cr
### University of Minnesota – Class Schedule for Duluth Campus

#### Summer 2012

**Text 8666 Doctoral Pre-Thesis Credits**
- (NGA; max crs 6) (NGA; max cr 6 or per semester or summer; doctoral student who has not passed prelim oral; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to an additional 12 cr or 24 total (for doctoral students admitted summer 2007 and beyond); doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr) (No description)
- 80614 – 002 THE, 05/14/12-06/01/12, 1-6 cr

**Text 8777 Thesis Credits: Master’s**
- (NGA; max crs 50; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 or total required (Plan A only))
- 80815 – 002 THE, 05/14/12-06/01/12, 1-18 cr

**Text 8888 Thesis Credits: Doctoral**
- (NGA; max crs 100; 10 repeats allowed; prereq Max 18 cr per semester or summer; 24 cr required)
- 80816 – 002 THE, 05/14/12-06/01/12, 1-24 cr

**Summer Session**

**WS 3891 Independent Study**
- (A-F only; max crs 6; prereq 1000, 3100, 15 cr or WS or WS-related courses, Inst consent)
- Directed readings, research, and/or projects on topics of interest to the student.
- Directed readings, research, and/or projects on women’s studies topics of particular interest to the student.
- 80696 – 001 IND, 06/04/12-06/29/12; Kamau, Njoki M, 1-3 cr

**WS 3897 Internship**
- (S-N only; max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS or WS-related courses, WS major or minor, 53 cr, Inst consent)
- Work in public agency, private organization, or service agency offering practical application of women’s studies theories and/or experience not available in classroom. Students must set goals, fulfill requirements for credit earned, and submit written and oral evaluations of experiences.
- Work in public agency, private organization, or service agency offering practical application of women’s studies theories and/or experience not available in classroom. Students must set goals, fulfill requirements for credit earned, and submit written and oral evaluations of experiences.
- 80685 – 001 IEX; Kamau, Njoki M, 1-9 cr

**WS 5897 Teaching Internship in Women’s Studies**
- (S-N only; max crs 4; prereq 1000, 3100, 40cr, WS major, Inst consent; no Grad School credit)
- Practical experience assisting in teaching in Department of Women’s Studies. Before entering for a course, students must obtain a grade of at least B+ in the course.
- 80945 – 001 IEX; Plechner, Deborah Marie, 1-2 cr

**Writing Studies (Writ)**

**Correspondence courses**
- 87988 – 001 LE; 08:00am-09:15am MTWTh, Bohl 104, 1-3 cr
- 87988 – 002 LE; 08:00am-09:15am MTWTh, Bohl 104, 1-3 cr
- 87988 – 003 IEX; 10:00am-11:15am MTWTh, Bohl 104, 1-3 cr

**Correspondence Getting Started On Your Correspondence**

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This information is accurate as of: 01/20/2012

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Writ 3121 Advanced Writing: Business and Organizations
(A-F only; prereq 1120 or equivalent, min 60 cr; credit will not be granted if already received for Comp 3121)
Study and practice of writing tasks in business and organizations, including oral presentations, exploration of rhetorical situations in professional practice, including research methods, document design, editing, effective collaboration, and ethical issues in the production of professional documents, such as instructions, proposals, short and long reports, and career documents.

Writ 3130 Advanced Writing: Engineering
(A-F only; prereq 1120 or equivalent, min 60 cr; credit will not be granted if already received for Comp 3130)
Study and practice of writing tasks in engineering, including oral presentations, exploration of rhetorical situations in professional practice, including research methods, document design, editing, effective collaboration, and ethical issues in the production of professional documents, such as instructions, lab reports, proposals, short and long reports, and career documents.

Writ 3160 Advanced Writing: Social Sciences
(A-F only; prereq 1120 or equivalent, min 60 cr; credit will not be granted if already received for Comp 3160)
Study and practice of writing for those whose professional interests are in sociology, anthropology, geography, criminology, psychology, women’s studies, history, political science, and similar fields. Assignments center on producing documents encountered in the workplace, such as career documents, proposals, research projects, oral presentations, observational studies, and position papers.

Writ 4197 Internship in Writing
(S-N; Credit will not be granted if credit has been received for: WRIT 5197; max crs 6; prereq instr consent, no Grad School cr)
Practical writing experience with a media organization, publisher, business, or government agency.

Writ 8910 Practicum in Teaching Writing
(A-F only; max crs 3; 3 repeats allowed; prereq Credit will not be granted if credit has been received for: WRIT 5991; max crs 6; 6 repeats allowed; prereq instr consent, no Grad School cr)
Teaching, tutoring, and assisting in composition courses; experience in preparation of materials, microteaching, and grading student work.

Writ 8994 Directed Research in Writing Studies
(A-F only; max crs 3; 3 repeats allowed; prereq Credit will not be granted if already received for Comp 8994; 8902; Instr consent)
Controlled research in methods, materials, and theories (both linguistic and rhetorical) used in composition classes, sometimes involving experiments with composition students in secondary schools and colleges.

This information is accurate as of: 01/20/2012