HOW TO USE THIS SCHEDULE

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

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

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

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

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

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

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

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

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

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

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

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

Example 1

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

Example 2

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

Example 3

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

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

Course Changes — See under “Registration Information > Class Schedule > Online Version” on the Web at http://www.d.umn.edu/courseinfo/ for the most current and accurate information.
Acct 3101 Accounting Information Systems

(A-F; prereq: LSBE candidate or non-LSBE accounting minor or college consent)

Overview of the characteristics and functions of modern accounting information systems. Focus on system use, internal controls, security issues, and design and implementation in computerized accounting procedures within the business organization. Develop proficiency in the use of accounting systems.

88448 --001 LEC, 11:00am-01:30pm MTW, LSBE 237, 06/09/14-07/03/14, instruction mode: Classroom, Limited to: 3; Combined with: 88441 ACCT 3102; Lunde, Lai La Sha, 3 cr

88449 --002 LEC, 11:00am-01:30pm MTW, LSBE 237, 06/09/14-07/03/14, instruction mode: Classroom, Limited to: 3; Combined with: 88448 ACCT 3101; Lunde, Lai La Sha, 3 cr

Acct 3401 Individual Income Taxation

(A-F; prereq: Credit will not be granted if already received for ACCT 3152 or 4122; LSBE candidate or approved non-LSBE accounting minor or college consent)

Provides an understanding of how taxes impact personal financial decision. Takes tax planning/minimization perspective and provides a basic information on reporting tax positions to the IRS. In addition to tax planning and compliance, the student will be exposed to basic tax concepts.

88372 --001 LEC, 08:00am-10:30am MTW, LSBE 229, 06/09/14-07/03/14, instruction mode: Classroom, Limited to: 3; Combined with: 88181 ACCT 3401; Skalberg, Randy, 3 cr

88375 --002 LEC, 11:00am-01:30pm MTW, LSBE 229, 06/09/14-07/03/14, instruction mode: Classroom, Limited to: 3; Combined with: 88372 ACCT 3401; Skalberg, Randy, 3 cr

Acct 3796 Internship in Accounting

(S; max crs 6; 5 crs required; prereq 3101, department consent; repeatable for a max of 6 crs; 3 credits allowed; max 2 credits may be applied to Active Learning Experience.)

Participation in an approved program with professional accounting firms, businesses, government agencies, or non-profit organizations. Requires minimum 200 hours work experience, assigned written reports, and performance evaluations. Students can take an additional credit for each additional 100 hours of work, up to a maximum of 6 credits. 3 repeat credits for a maximum of 2 credits may be applied to Active Learning Experience.

88083 --001 FWK, 05/19/14-06/29/14, instruction mode: Independent/Directed Studies, Roline, Alan C, 2-6 cr

Acct 3991 Independent Study

(A-F; max crs 3; 3 credits allowed; prereq BAC candidate with 80 cr, department consent; credit not available as accounting elective and may take ACCT 3191 and 3991 for a total of 3 credits.)

For students wishing to do special work in an accounting area that extends beyond, or in greater depth than, regular course offerings.

87992 --001 IND, 06/09/14-09/01/14, instruction mode: Independent/Directed Studies, Roline, Alan C, 1-3 cr

AMERICAN INDIAN STUDIES (Amln)

Amln 1500 Introduction to American Indian Literature

(A-F; prereq: Credit will not be granted if already received for 1106; meets DLE req of Cultural Diversity in the US; meets DLE req of Oral Communication & Literacy; meets LE req of LE CAT9) Introduction to basic vocabulary in American Indian Language and the fngerspelling alphabet.

88573 --001 IND, 05/19/14-06/04/14, instruction mode: Correspondence, Limited to: 25; Coffin-Langston, Joanne, 3 cr

Amln 2002 Beginning American Sign Language I

(A-F only; prereq 2001 or instructor consent, no grad credit) Instructional and intensive practice in various subjects related to American Sign Language.

88437 --001 LEC, 06/09/14-06/25/14, instruction mode: Classroom, Limited to: 30; Diener EUSD, Nancy McFarlin, 3 cr

Amln 2001 Beginning American Sign Language I

(A-F only; prereq 2000 or instructor consent, no grad credit) Introduction to basic vocabulary in American Sign Language and the fngerspelling alphabet.

88573 --001 IND, 05/19/14-06/04/14, instruction mode: Correspondence, Limited to: 25; Coffin-Langston, Joanne, 3 cr

Amln 302 Intermediate Accounting II

(A-F; prereq: a grade of C or better in 3101, LSBE candidate or non-LSBE accounting minor or college consent) Long-term liabilities, stockholders' equity, earnings per share, revenue recognition, and tax allocation. Investments, pensions, leases, accounting changes and error analysis, financial and management analysis, and disclosures in financial statements.

88373 --001 LEC, 08:00am-10:30am MTW, LSBE 233, 06/09/14-07/03/14, instruction mode: Classroom, Limited to: 37; Combined with: 88451 ACCT 3102; Kang, Grace, 3 cr

Amln 3420 American Indians in Sports

(A-F only; prereq 30 credits; credit will not be granted if already received for 3110; meets DLE req of Cultural Diversity in the US; meets LE req of LE CAT3; meets LEC req of LECO CAT7) The role of sports and games in Native tradition and tribal sovereignty; development of individual and tribal self-determination; indigenous and adapted games and sports integration of tribal epistemologies into sports; Native sports figures and leaders; history of Native sports pre-Contact through the present.

88752 --001 LEC, instruction mode: Correspondence, Limited to: 25; Grover, Linda LeGarde, 3 cr

Amln 3997 Internship in American Indian Studies

(A-F; max crs 3; 3 credits allowed; prereq Amln major, 60 credits or instructor consent) Supervised lab experience in American Indian agency or project or with significant Indian clientele. Advance, concurrent, and follow-up written and oral presentations.

88640 --001 FWK, instruction mode: Independent/Directed Studies; Grover, Linda LeGarde, 4-8 cr

Amln 4990 Directed Research

(A-F; max crs 12; 12 credits allowed; prereq 60 credits and instructor consent, max 8 credits to grad program) Qualified seniors and graduate students may register for work on tutorial basis in search of an advanced nature in American Indian Studies.

88641 --001 IND, instruction mode: Independent/Directed Studies; Doerrler, Jill May; Grover, Linda LeGarde, 1-6 cr
Anthropology (Anth) 228 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-0111 218-726-7801 http://www.d.umn.edu/socanth/

College of Liberal Arts

May Session

Anth 3891 Independent Study in Anthropology (A-F only; max: 5 credits; prereq Minimum 60 credits or instructor consent) Directed reading and research in ethnography leading to preparation of paper.

Anth 4697 Anthropology Internship (S-N only; max: 6; prereq instructor consent, no grad credit) Supervised experience in an anthropological work related setting: social service agency, museum, immigration services, school or other, approved by instructor. Setting learning objectives, techniques for measuring progress and report writing will be taught.

Anth 4699 Honors Project (A-F only; max: 4 credits; prereq 1604, instructor consent; no grad credit) Advanced individual project in any area of anthropology demonstrating sound theoretical and research foundations and resulting in a written report, oral presentation. A web page or poster presentation may be done in consultation with the honors advisor.

Anth 3988 Anthropology of Food (A-F; prereq minimum 30 credits; meets DLE req of Fine Arts) The domestication and evolution of plants and animals, biological and cultural aspects of the production, distribution, preparation, and consumption of food, and an analysis of the social and cultural significance of food-including food preferences and taboos, food and religion, food and identity, and food and power, gendered division of labor in foodways, beliefs and values about foods, food symbols and metaphors, new food technologies, and the globalization of contemporary food systems.

Anth 3891 Independent Study in Anthropology (A-F only; max: 10 credits; prereq Minimum 60 credits or instructor consent) Directed reading and research in ethnography leading to preparation of paper.

Anth 3891 Independent Study in Anthropology (A-F only; max: 10 credits; prereq Minimum 60 credits or instructor consent) Directed reading and research in ethnography leading to preparation of paper.

Anth 4697 Anthropology Internship (S-N only; max: 6; prereq instructor consent, no grad credit) Supervised experience in an anthropological work related setting: social service agency, museum, immigration services, school or other, approved by instructor. Setting learning objectives, techniques for measuring progress and report writing will be taught.

Anth 4697 Anthropology Internship (S-N only; max: 6; prereq instructor consent, no grad credit) Supervised experience in an anthropological work related setting: social service agency, museum, immigration services, school or other, approved by instructor. Setting learning objectives, techniques for measuring progress and report writing will be taught.

Anth 4699 Honors Project (A-F only; max: 4 credits; prereq 1604, instructor consent; no grad credit) Advanced individual project in any area of anthropology demonstrating sound theoretical and research foundations and resulting in a written report, oral presentation. A web page or poster presentation may be done in consultation with the honors advisor.

Art 1010 Painting III (A-F only; max: 3 credits; prereq; 2500, art or art education major or art minor or instructor consent) Advanced individually supervised projects using both traditional and contemporary painting media and techniques. Selected readings in photographic theory and criticism. Graduate student portfolios are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 2600 Photography (A-F only; max: 3 credits; prereq; 2600, art major or photography minor or instructor consent) Creation of one or more individual photographic book projects, with emphasis on effective sequencing of images and appropriate book form for the specific body of work. Selected readings in book arts relating to photography. Graduate student book projects are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 4758 Photography: The Photographic Book (A-F only; max: 3 credits; prereq; 4600, art major or photography minor or instructor consent) Creation of one or more individual photographic book projects, with emphasis on effective sequencing of images and appropriate book form for the specific body of work. Selected readings in book arts relating to photography. Graduate student book projects are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 4100 Painting II (A-F only; max: 3 credits; prereq; 2500, art or art education major or art minor or instructor consent) Advanced individually supervised projects using both traditional and contemporary painting media and techniques. Selected readings in photographic theory and criticism. Graduate student portfolios are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 4600 Photography: Digital Portfolio (A-F only; max: 3 credits; prereq; 2500, art or art education major or art minor or instructor consent) Advanced individually supervised projects using both traditional and contemporary painting media and techniques. Selected readings in photographic theory and criticism. Graduate student portfolios are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 4675 Photography: The Photographic Book (A-F only; max: 3 credits; prereq; 4600, art major or photography minor or instructor consent) Creation of one or more individual photographic book projects, with emphasis on effective sequencing of images and appropriate book form for the specific body of work. Selected readings in book arts relating to photography. Graduate student book projects are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 3888 Anthropology of Food (A-F; prereq minimum 30 credits; meets DLE req of Fine Arts) The domestication and evolution of plants and animals, biological and cultural aspects of the production, distribution, preparation, and consumption of food, and an analysis of the social and cultural significance of food-including food preferences and taboos, food and religion, food and identity, and food and power, gendered division of labor in foodways, beliefs and values about foods, food symbols and metaphors, new food technologies, and the globalization of contemporary food systems.

Art 4621 Myth and Sacred Symbols (A-F only; max: 4 credits; prereq 1604, min 60 cr) Interpretation of myths and sacred symbols found in daily life and presented in traditional cultures.

Art 4691 Independent Study in Anthropology (A-F only; max: 5 credits; prereq Minimum 60 credits or instructor consent, no grad credit) Directed reading and research in ethnography leading to preparation of paper.

Art 2600 Photography (A-F only; max: 3 credits; prereq; 2600, art major or Photography Minor or Instructor 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. Laptop and software required; instruction presented only on the Mac OS.

Art 4691 Independent Study in Anthropology (A-F only; max: 5 credits; prereq Minimum 60 credits or instructor consent, no grad credit) Directed reading and research in ethnography leading to preparation of paper.

Art 2600 Photography (A-F only; max: 3 credits; prereq; 2600, art major or Photography Minor or Instructor 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. Laptop and software required; instruction presented only on the Mac OS.

Art 4100 Painting III (A-F only; max: 3 credits; prereq; 2500, art or art education major or art minor or instructor consent) Advanced individually supervised projects using both traditional and contemporary painting media and techniques. Selected readings in photographic theory and criticism. Graduate student portfolios are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.

Art 4191 Individual Study in Painting (A-F only; max: 9 credits; prereq; 2500, art or art education major or art minor or instructor consent) Instruction tailored to individual's needs outside of traditional class structure.

Art 2600 Photography (A-F only; max: 3 credits; prereq; 2600, art major or photography minor or instructor consent) Advanced individually supervised projects using both traditional and contemporary painting media and techniques. Selected readings in photographic theory and criticism. Graduate student portfolios are complemented by a related research project. Requires digital camera with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.
Art 2016 Digital Arts: Mixed-Media Studio
(A only; max cr: 6; prereq: 1013, art or art education major or pre-graphic design major, or art or photography major or instructor consent; credit will not be granted if already received for 3016)
Introduction to digital art studio practice with a focus on digital imaging and animation. Course builds on skills, techniques, and critique of digital art concepts such as image composting, appropriation, collage, and remixing. Creative projects include development of a series of projects using digital media. Readings and presentations discuss current trends in digital culture and key works by digital artists. Mac laptop required with current digital imaging software.
88632 -001 LEC, 04:00pm-08:30pm T, ABAB 335, 06/09/14-07/14, instruction mode: Partially Online, Limited to: 50; Combined with: 4016, 88869 ART 4040; Rock, Joelyn Jean, 3 cr
The remainder of the course will be conducted in an online learning environment.

Art 2400 Ceramics I
(A only; prereq: 1012, art or art education major or art minor or instructor consent: credit will not be granted if already received for 3016)
Handbuilding methods, surface enhancement, and conceptual support for pottery and/or ceramic sculpture.
88366 -001 LEC, 09:00am-11:50am MW, W 技艺, 06/09/14-07/14, instruction mode: Classroom, Limited to: 5; Combined with: 88365 ART 1405, 88367 ART 2400, 88368 ART 3400, 88369 ART 4400, 88370 ART 4491; James, Elizabeth J, 3 cr
Art 3400 Ceramics II
(A-F only; max crs: 6; 2400 or instr consent; 2400 or instr consent)
Advanced handbuilding and surface enhancement techniques; development of a stylistically consistent body of work.
88367 -001 LEC, 09:00am-11:50am MW, W 技艺, 06/09/14-07/14, instruction mode: Classroom, Limited to: 4; Combined with: 88363 ART 1405, 88366 ART 2400, 88368 ART 3400, 88369 ART 4400, 88370 ART 4491; James, Elizabeth J, 3 cr
Art 3405 Fundamentals of Ceramics II
(max crs: 6; prereq: 1405 or instructor consent: not for art majors or minors; meets DLE req of Fine Arts)
Handbuilding, glazing, and firing of earthenware ceramics. 
88368 -001 LEC, 09:00am-11:50am MW, W 技艺, 06/09/14-07/14, instruction mode: Classroom, Limited to: 2; Combined with: 88365 ART 1405, 88366 ART 2400, 88368 ART 3400, 88369 ART 4400, 88370 ART 4491; James, Elizabeth J, 3 cr

Art 3600 Photography: Alternative Processes
(A only; prereq: 1013, 1607 or 2600, Art major or Art or Photography minor or instructor consent)
Continued experience with photographic concepts using alternative processes techniques within the creative context. Portfolio requirements are project-based. Requires digital camera and adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.
88378 -001 LEC, 09:00am-01:30pm MW, Cina 16, 06/09/14-07/14, instruction mode: Classroom, Limited to: 6; Combined with: 88441 ART 4650; Peary, Wanda J, 3 cr
Art 3615 Photography: Investing with Light
(A only; prereq: 1013, 1607 or 2600, pre-DAP or Studio DAP major or Photography minor or instructor consent)
This course provides a working knowledge of studio lighting equipment and its uses as they apply to the creative production of still photographs and short digital videos. Students will incorporate these lighting techniques, and develop the skills, into their conceptual practice, demonstrating technical and aesthetic skills related to contemporary and historical practice in the field of digital lighting. Students will conceptualize how the lighting studio can transform their means of creative production. Requires digital still and/or video cameras with adjustable shutter speeds and apertures. Laptop and software required; instruction presented only on the Mac OS.
88778 -001 LEC, 09:00am-01:30pm Th, MPAC 154, 06/09/14-07/14, instruction mode: Classroom, Limited to: 10; Pless, Kristen Marie, 3 cr

Art 3700 Drawing II
(A only; max cr: 6; prereq: 1006 or 1009 or 1010, art or art education major, pre-art education major or pre-graphic design major, or art or photography major or instructor consent) Individually supervised projects involving project in other studio areas.
88362 -001 LEC, 09:00am-11:50am MW, H 技艺, 06/09/14-07/14, instruction mode: Classroom, Limited to: 7; Combined with: 88360 ART 1009, 88361 ART 2300, 88363 ART 4300, 88364 ART 4791; Reipsi, Robert A, 3 cr

Art 4016 Digital Arts: Advanced Projects
(max cr: 9 or 3; receives repeat; prereq: 3017 or 3018 or 3033 or instructor consent, no grad credit) Advanced Digital Arts: Studio for students interested in exploring interdisciplinary or advanced projects using current or emerging technologies. Students develop self-directed focus and creative project goals. Advanced projects may concentrate on mixed media, print, time-based, interactive media, installation art, collaborative art formats. Students hone a body of digital artwork through research experimentation and critique. Laptop required.
88642 -001 LAB, 04:00pm-08:30pm T, ABAB 335, 06/09/14-07/14, instruction mode: Partially Online, Limited to: 50; Combined with: 4016, 88868 ART 4404; Rock, Joelyn Jean, 3 cr
University of Minnesota – Class Schedule for Duluth Campus

(A-F only; meets DLE req of Fine Arts; meets LE req of LE CAT09)
Survey of contributions of women in the visual arts throughout history. 
88801 --001 LEC, 08:00am-09:50am MWF, H 316, 06/09/14- 07/14/14, instruction mode: Classroom, Limited to; 25.
Aune, Alison Judith, 3 cr

ASTRONOMY (Ast)
229 HH, 1114 Kirby Drive, Swenson College of Science & Engi-
neering, Duluth, MN 55812-3011
218-726-8385
http://www.d.umn.edu/geology/

Swenson College of Science & Engineering
Summer Session

Ast 1140 Introductory Astronomy
(A-F only; meets DLE req of Natural Sciences; meets LE req of LE CAT09)
Survey of present knowledge of solar system, interstellar space, stars, galaxies, and universal. Historical develop-
ment of astronomy as a science. Taught in day school and in Individualized Learning Program format.
BU:Approved the 6/99

88556 --001 LEC, instruction mode: Correspondence, Limited to 30. Moors, Howard D, 3 cr

Initial course information will be sent to you via your UMD email account.

BEHAVIORAL SCIENCES (BhsC)
236 SM-3, 1035 Kirby Drive, University of Minnesota Duluth
Medical School - Duluth Campus
Summer Session

BhsC 5491. Problems in Medical Behavioral Sciences
(A-F only; max crs 6; prereq Med or upper div or Grad Student, instructor consent; max 6 cr to grad program) Independant study on a tutorial, seminar, or lecture basis. Investigative work, lecture material, and/or appropriate readings and discussions designed according to interest and capabilities of individual student.
88003 --001 ID, 04/07/14-05/20/14, instruction mode: Correspondence, Limited to, 20, 1-6 cr

BhsC 6562 Social and Behavioral Medicine I
(P-N: prereq Regis med student) Human psychological development throughout life; normal cognitive, learning, social, and personality development; problems expressed during various stages of life in the family and other settings. Assessment/ treatment described as relevant to practice of family medicine.
88399 --001 LEC, 05/05/14-06/27/14, instruction mode: Classroom, Limited to; 60. Boulger, James G, 4 cr

BIOLOGY (Biol)
207 SSB, 1035 Kirby Drive, Swenson College of Science and Engineering, Duluth, MN 55812-3011
218-726-8811
http://www.d.umn.edu/biology/

Swenson College of Science & Engineering
May Session

Biol 2501 Biology of HIV and AIDS
(A-F only; prereq 1012) A comprehensive overview of the current AIDS pandemic ranging from molecular and biomedical aspects to soci-
etal and psychological aspects. Molecular biology of HIV, the immune system’s response, diagnosis, prevention, treat-
ment, and social implications will be discussed.
88566 --001 LEC, 08:00am-09:50am MWF, SSB 115, 05/19/14-06/06/14, instruction mode: Classroom, Limited to; 24. Dahl, John L, 3 cr

Biol 3102 Cell Biology of Human Disease
(A-F only; prereq 2101) Topics in human cellular biology as related to human dis-
eases. A focus on learning to read the literature and critically analyze and communicate scientific ideas.
88753 --001 LEC, 06/09/14-06/08/14, instruction mode: Correspondence, Limited to; 24. Stevenson, Shannon Lea, 3 cr

Biol 3993 Laboratory Teaching Experience
(S-N only; max crs 2; prereq instructor consent required, biol or cell biol maj or 90 crs to 25 Biol; max 2 crs may be applied toward Biol major) Participation in biology teaching labs course: help set up labs, participate in teaching of labs, and share in instruc-
tion of review labs.
12018 --001 LEC, 07/07/14-08/01/14, instruction mode: Correspondence, Limited to; 24. Lunte, Shee Q, 2 cr

Biol 4492 Undergraduate Research
(S-N only; max crs 6; 4 must be completed; prereq A grade of C or better in both 1011 and 1012, 60 cr, department consent required; max 4 cr may be applied to biol or cell biol major as upper div elective) Advanced independent work in special fields.
88498 --001 LEC, 01/05/14-05/20/14, instruction mode: Classroom, Limited to 1-2 cr

Biol 4493 Undergraduate Internship
(S-N only; max crs 6; 4 must be completed; prereq A grade of C or better in both 1011 and 1012, department consent required; max 4 cr may be applied to biol or cell biol major) Credit given for professional work experience outside an academic department. Requires prior department ap-
prov and coordination with faculty sponsor. BU:Credit given for professional work experience outside an academic department.
88901 --001 FWK, instruction mode: Independent/Directed Studies, 1-3 cr

Biol 4561 General Microbiology
(S-N only; max crs 6; prereq 1012 in addition to tuition; prereq 2101 or IBS Grad student) Morphology of microorganisms; growth; environmental and physiological types; cell division; taxonomy; viruses; genetics of bacteria; practical applica-
tions, including medical, water, soil, and food microbiol-
ogy. (2 hrs lect, 4 hrs lab)
88808 --002 LEC, 02:00pm-03:50pm MTWTh, SSB 208, 06/09/14-07/03/14, instruction mode: Classroom, Limited to; 24. Cr, 4 cr, 001 LEC, instruction mode: Classroom, Limited to; 24. Dahl, John L

Biol 4731 Entomology
(A-F only; prereq 1012 or IBS Grad student) Structure, life history, ecology, classification, evolution, principles of control, and significance of insects in our society. Field collections, (2 hrs lect, 3 hrs lab and field)
88497 --002 LEC, 01:00pm-03:50pm TTh, Lsci 340, 06/09/14-07/03/14, instruction mode: Classroom, Limited to; 12 , 3 cr, 001 LEC, instruction mode: Classroom

Summer 2014

BUSINESS (Bus)
2101 LSBE, 1218 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011
218-726-7281
http://www.d.umn.edu/lsbe

Labovitz School of Business & Economics
Summer Session

Bus 2300 Fundamentals of Operations Management
(A-F only; prereq CUE major or Business Administration Certificate or college consent; this course cannot be used to fulfill a LSBE major/minor requirement.) Introductory survey of production and operations as a functional area of management, including operations strategy and sustainability; manufacturing and service process design; project management; global supply chain, capacity and inventory management. Current industry best practices, such as lean six-sigma will also be discussed.
88905 --001 LEC, instruction mode: Correspondence: Lunde, Lai La Sha, 2 cr

Bus 2600 Fundamentals of Financial Management
(A-F only; prereq CUE major or Business Administration Certificate or college consent; this course cannot be used to fulfill a LSBE major/minor requirement.) The objective of this course is to help the student to de-
velop an understanding of the concepts and techniques of financial management and decision making. Evaluation of the financial risks, returns, and costs is the necessary framework in which all business policies must be examined. Students are expected to have a basic understanding of the concepts and methods of financial management by the completion of this course. Specific topics of coverage include financial statement analysis, time value of money, risk and return, the valuation of equity and bonds, capital budgeting and the cost of capital analysis. Moreover, the course also serves as a foundation for advanced work in finance.
88907 --001 LEC, 07/07/14-08/01/14, instruction mode: Correspondence, Limited to; 20. Bueh, Bee Q, 2 cr

BUSINESS LAW (Blaw)
3604 LSBE, 1318 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011
218-726-7966

This information is accurate as of: 03/03/2014
University of Minnesota – Class Schedule for Duluth Campus

CAREER EXPLORATION & EDUCATION (CrExpEd)

Summer Session

CrExpEd 3010 Internship Preparation

Course content will include assessment of self (strengths, interests, values, and skills) and the relationship to career plans; development of career goals and goals for internship; identification and evaluation of possible internship sites; development of internship seeking skills; and examination of professional ethics and etiquette.

CrExpEd 3395 Strategic Career Planning

Theoretical base and practical experiences integrating knowledge of self with knowledge of the marketplace. Course emphasizes learning effective job/Internship search strategies.

CHEMICAL ENGINEERING (ChE)

176 Engr. 1303 Ordway, Swenson College of Science & Engineering, Duluth, MN 55812-3011
http://www.d.umn.edu/che

Swenson College of Science & Engineering

Summer

ChE 2111 Material and Energy Balances

Modeling and simulation of chemical processes; computational methods applied to chemical engineering; use of computation and process simulation tools.

ChE 3791 Independent Study

Directed individual study arranged with instructor and head of department before registration.

ChE 3793 Independent Study

Directed individual study arranged with instructor and head of department before registration.

ChE 3894 Chemical Engineering Research

Experience in a selected research area. Student must present a satisfactory written report and oral presentation. Course may also be used for portion of a research proposal.

ChE 4211 Chemical Engineering Laboratory II

For students wishing to do special work in areas useful for professional practice. Course content will include assessment of self (strengths, interests, values, and skills) and the relationship to career plans; development of career goals and goals for internship; identification and evaluation of possible internship sites; development of internship seeking skills; and examination of professional ethics and etiquette.

CHEMISTRY (Chem)

246 Chem. 1309 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

Chem 1153 General Chemistry I (A-F only; prereq One year of high school chem, high school algebra, Math ACT 21 or higher or a grade of C- or Math 1005. Credit will not be granted if already received for Chem 1161. Credit is not granted if CHEM 1161 is taken concurrently.)

Fundamental principles of chemistry exemplified by study of elements, compounds, and their reactions. Covers fundamental concepts of the atom, molecule, stoichiometry, chemical reactions, thermodynamics, gas law, atomic structure, and other selected topics. The companion laboratory, CHEM 1154, should be taken concurrently. The combination of CHEM 1153 and CHEM 1154 meets the lab component of NAT SCI, LE CAT 4.

Chem 1154 General Chemistry Lab I

Basic laboratory skills while investigating the fundamental principles of chemistry. Covers fundamental concepts of the atom and molecule, stoichiometry, acid-base reactions, oxidation-reduction reactions, thermodynamics, characteristics of acids and bases, and spectrophotometry. This laboratory accompanies CHEM 1153. The combination of CHEM 1153 and CHEM 1154 meets the liberal education category 4 requirements.

Chem 1155 General Chemistry II

Fundamental principles of chemistry exemplified by study of elements, compounds, and their reactions. Covers intermolecular forces, properties of liquids, solids and solution, chemical kinetics, chemical equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, and other selected topics. Solid knowledge of college algebra and General Chemistry I is required. The companion laboratory course CHEM 1156 should be taken concurrently.

Chem 1156 General Chemistry Lab II

Covers titration, intermolecular forces, properties of liquids, solids and solution, chemical kinetics, chemical equilibrium, acids and bases, solubility, thermodynamics, electrochemistry, nuclear chemistry, and other selected topics. Solid knowledge of college algebra and General Chemistry I is required. The companion laboratory course CHEM 1156 should be taken concurrently.

CHEM 1211 Material and Energy Balances

Examining the legal and ethical issues faced by professional engineers. Topics include agency, bankruptcy, insider trading and other securities laws, obligations of corporate directors and officers, negotiable instruments and secured lending transactions.

This information is accurate as of: 03/03/2014
University of Minnesota – Class Schedule for Duluth Campus  
Summer 2014

Chem 3097  Internship in Chemistry
(A-F only; prerequisite: permission of department; 6 cr)
Survey of biochemistry, emphasizing enzyme catalysis, cellular energetic metabolism, and medicinal processes.

Chem 3234 Biochemistry Laboratory
(A-F only; course fee in addition to tuition; prerequisite 2522 or 2523 or 2542; previous or concurrent registration in 2522 is required; credit will not be granted if already received for 2212 or 2242)
Laboratory companion to CHEM 2541. Structure and function of proteins, and nucleic acids (RNA, DNA).

CE 3016 Surveying
(A-F only; $62.00 course fee in addition to tuition; prerequisite Math 1297, BSCIE candidate)

CE 4096 Cooperative Education I
(A-F only; max crs 3; 3 repeats allowed; prerequisite CE upper division student, instructor consent; no grad credit)
Practical work experience with an employer closely associated with students academic area. Arranged.

Chem 3232 Biochemistry
(A-F only; prerequisite 2522 or 2533 or 2542)
Experience in a selected area of research. Prior department approval and coordination with faculty sponsor are required.

CHEM 3324 Biochemistry
(A-F only; max crs 12; 12 repeats allowed; prerequisite CE upper division student, instructor consent)
### Comm 4399 Directed Projects in Communication

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Term</th>
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<td>05/19-06/06</td>
<td>1 cr</td>
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### Comm 4397 Internship in Communication

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<th>Title</th>
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<td>1 cr</td>
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### Comm 3310 Research Assistant in Communication

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<td>05/19-06/06</td>
<td>1 cr</td>
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### Comm 3300 Teaching Assistantship in Communication

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<td>05/19-06/06</td>
<td>1 cr</td>
<td>726-7974</td>
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**Please note:**

- Credits for these courses may be applied to electives credit for a Communication 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.

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**Additional Notes:**

- Students work in pre-approved program with a public agency, private organization, or other service agency; work must be in specific area of communication. Application deadline: one week before beginning of registration for the following semester.
University of Minnesota – Class Schedule for Duluth Campus

Summer 2014

May Session

CSD 3130 Language Development and Disorders
(A-F; prereq Pre-IESE major or pre-UCOH, or instructor consent)

88809 --030 LEC, 09:00am-02:25pm MTWThF, ChP 122, 05/19/14-06/06/14, Instruction mode: Classroom, Limited to: 30; Bronson, Kent R, 4 cr
This course is for non CSD majors.

CSD 5230 Advanced Applications in Communication Modalities
(prereq CSD grad or instructor consent)
Advanced seminar and clinical practicum of augmentative and alternative communication (AAC) systems, assistive technologies and visual communication modalities. The decision-making process for identifying AAC candidates, selecting appropriate communication modality systems and developing effective communication programs and strategies involving visual communication modalities.

87894 --030 LEC, 09:00am-02:55pm MTWThF, ChP 124, 05/19/14-06/06/14, Instruction mode: Classroom, Limited to: 16; Mizuko, Mark I, 4 cr
Students will be required to attend the Lamp workshop on Wed, May 21, 2014 from 8am-3pm in Chester Park 122. Summer Session

CSD 1100 Phonetics
(meets LE req of LE CAT3)
Study and practice of Intensive Phonetic Alphabet. English and non-English speech sounds as they occur separately and in connected speech. Variations in speech production are related to regional and/or class distinctions.

88851 --001 LEC, 06/09/14-07/04/14, Instruction mode: Classroom, Limited to: 30; Hyppa Marten, Joline K, 2 cr
This is a tuition line.

CSD 3230 Introduction to Human Communication Disorders
(meets DLE req of Cultural Diversity in the Us) meets LE req of LE CAT3; meets LED req of LE CAT4; meets CSD req of DLE req of Cultural Diversity in the US; meets CSD req of DLE req of Cultural Diversity in the US; meets CSD req of DLE req of Cultural Diversity in the US.
Receptive and expressive human communication disorders. Importance of communication to human behavior; influence that communication disorders exert on broad spectrum of human activities. Professional roles and responsibilities of speech-language pathologists and audiologists.

88850 --001 LEC, 06/09/14-06/01/14, Instruction mode: Classroom, Limited to: 30; Bronson, Kent R, 3 cr
This class is taught online.

CSD 2400 Clinical Observation of Communication Disorders (A-F; only prereq 2230 or instructor consent)
All undergraduate students majoring in Communication Sciences and Disorders are expected to complete 25 hours of clinical observation prior to enrollment in clinical practicum. These observations may be live or video recorded sessions that occur in a variety of clinical settings. The role of the speech language pathologist on the interdisciplinary team that cares for the individual with craniofacial disorders will be described. This will include describing the primary responsibilities of the SLP as well as important interaction s with other team members. The role of the other team members in the management of care for the individual with craniofacial disorders will also be described.

88835 --001 LEC, 09:00am-11:45am MTWThF, ChP 124, 07/14/14-07/25/14, Instruction mode: Classroom, Limited to: 40; Collins, Dana Rose, 2 cr
Course will be taught special term, July 14, 2014 - July 25, 2014 from 9:00 am -11:45 am.

CSD 8232 Mgmt of Communication Disorders in Persons with Traecheostomy, Ventilator Dependant, & Laryngeotomy (A-F; prereq CSD grad student or instructor consent)
Advanced study of the effects of tracheostomy tubes, ventilators and laryngeotomies on the production of speech; diagnostic assessment procedures used in working with individuals with trach vents, or laryngeotomies.

88895 --001 LEC, 09:00am-11:45am MTWThF, ChP 122, 06/09/14-06/16/14, 12:00pm-12:50pm M, ChP 124, 06/27/14-07/04/14, Instruction mode: Classroom, Limited to: Combined with: 88844 CSD 8997, 88846 CSD 8997; John, Lynda Barker, 1 cr
Final Exam 6/16/2014.

CSD 8997 Full-time CSD Graduate Externship in Medical Settings
(A-F only; 43.75 course fee in addition to tuition; max crs 2; prereq CSD grad student, instructor consent)
Supervised graduate clinical practicum under the supervision of an ASHA-Certified speech-language pathologist. Focus is on increasing proficiency to provide students with an opportunity to develop increased independence with clinical skills and establish a breadth and depth of knowledge in providing diagnostic and treatment services under the guidance of ASHA certified professionals. Focus is on increasing speed and efficiency of clinical performance and justifying clinical practice.

88864 --003 FWK, 07:00am-07:50am M, ChP 124, 05/19/14-05/19/14, 07:00am-07:50am M, ChP 124, 06/09/14-06/19/14, 12:00pm-12:50pm F, ChP 124, 06/27/14-07/06/14, instruction mode: Independent/ Directed Studies; Combined with: 88843 CSD 4097, 88845 CSD 8997; John, Lynda Barker, 1 cr
Class meets: May 19, 2014 7:00 am - 7:50 am; June 9, 2014 7:00 am - 7:50 am; and June 27, 2014 12:00 pm- 12:50 pm. All other practicum is arranged.

COMPUTER SCIENCE (CS)

230 HH, 11141 Kirkby Drive, Swenson College of Science & Engi- neering, Duluth, MN 55812-3011
218-726-7607
http://www.d.umn.edu/cs/

Swinson College of Science & Engineering

CS 3996 Internship in Computer Science (S-N only; max crs 3; repeats allowed; prereq Computer science junior, instructor consent)
Practical, Independent computer science experience in commercial, industrial, or educational setting. Department approval required before beginning internship; Class meets: May 16, 2014 7:00 am - 7:50 am; June 9, 2014 7:00 am - 7:50 am; and June 27, 2014 12:00 pm- 12:50 pm. All other practicum is arranged.

CS 4991 Independent Study (A-F; max crs 8; 3 repeats allowed; prereq instructor consent)
Directed study of special interest topics not available in standard curriculum. Must be arranged with instructor before registration. May include readings, research, or special projects.

CS 5991 Independent Study (A-F; max crs 8; 3 repeats allowed; prereq instructor 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.

CS 677 Thesis Credits: Master’s (NSA; max crs 50; 10 repeats allowed; prereq Max 18 or per semester or summer; 10 cr total required (Plan A only))
No description.

CS 8403 –001 FWK, 09/06/14-09/08/14, Instruction mode: Independent/ Directed Studies; Turner, Hudson, 1-4 cr

CS 8777 Thesis Credits: Master’s (NSA; max crs 50; 10 repeats allowed; prereq Max 18 or per semester or summer; 10 cr total required (Plan A only))
No description.

CRIMINOLOGY (CRIM)

228 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-7801
http://www.d.umn.edu/soe/crim/

College of Liberal Arts

May Session

CRIM 335 Criminal Forensic Psychology (A-F only; prereq minor criminology, Crim major)
This course introduces students to the interface of psychology and law, with a specific focus on criminal forensic psychology. The primary goal is to introduce students to the roles and responsibilities of forensic psychologists in the realms of criminal and victim psychology, police and investigative psychology, legal psychology, and correctional psychology.

88789 --001 LEC, 05/19/14-06/06/14, Instruction mode: Correspondence, Limited to: 20; Buffetton-Vollum, Jacqueline, 3 cr
CRIM 4391. Independent Study in Criminology  
(A-F only; max crs 6; requires prepr prof consent; credit will not be granted if already received for SOC 3338)  
Directed reading, research, or involvement in social action leading to preparation of a paper or other product.  
B84405 - 002 IND, 06/09-14/08/14, 14/01/14, instruction mode: Independent/Directed Studies; Weidner, Robert R, 1-6 cr

CRIM 4399. Honors Project Criminology  
(A-F only; max crs 16; prereq 90 credits, approval by department honors program director, no grad credit, maximum 8 credits allowed between SOC 4999 and CRIM 4399; meets HON req of Honors)  
Advanced individual project in any area of criminology, demonstrating sound theoretical and research foundations and resulting in a written report.  
B8592 - 001 IND, instruction mode: Independent/Directed Studies; Weidner, Robert R, 1-8 cr

CRIM 8600. Practicum in Criminology  
(S-N only; max crs 15; 3 repeats allowed; prereq Grad student or instructor consent)  
Supervised direct experience in a criminal justice agency and a concurrent seminar which focus on identification, application, and evaluation of the implementation of concepts, principles, theories and best practices in criminal justice. Experience in law enforcement agencies, juvenile courts, parole and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement, instruction mode: Independent/Directed Studies, Limited to 7; Maahs, Jeffrey Robert, 1-15 cr

CRIM 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))  
Supervised direct experience in a criminal justice agency and a concurrent seminar which focus on identification, application, and evaluation of the implementation of concepts, principles, theories and best practices in criminal justice. Experience in law enforcement agencies, juvenile courts, probation and parole departments, correctional institutions, delinquency control programs and public or voluntary agencies. Orientation sessions precede placement, instruction mode: Independent/Directed Studies, Limited to 7; Maahs, Jeffrey Robert, 1-15 cr

CRIM 8900. Directed Readings  
(A-F only; max crs 6; 6 repeats allowed; prereq Grad student or instructor consent)  
Students conduct intensive and detailed reading in a topic area of their choice under the guidance of a professor.  
B8264 - 001 IND, 05/19-06/06/14, 06/16-06/14, instruction mode: Independent/Directed Studies; Maahs, Jeffrey Robert, 1-6 cr

CULTURAL STUDIES (CSt)  
CSt 3715. Popular Culture  
(A-F only; prereq Minimum 30 credits or instructor consent; meets DLE req of Social Sciences)  
What qualifies as American popular culture, methodology used to study popular culture, and sociological significance of such study.  
89111 - 001 IND, 06/09-14/08/14, 06/14-06/14, instruction mode: Correspondence, Limited to 20; Emad, Mitra C, 4 cr

CSt 4691. Independent Study in Cultural Studies  
(A-F only; max crs B; prereq instructor consent)  
Directed reading, research, or involvement in an issue leading to the preparation of a paper or other product.  
84244 - 001 IND, 05/19-06/06/14, 06/14-06/14, instruction mode: Independent/Directed Studies; Emad, Mitra C, 1-4 cr

CSt 1101. Introduction to Cultural Studies  
(A-F only; meets DLE req of Cultural Diversity in the US; meets DLE req of Social Sciences; meets LE req of LE CAT)  
Examines how cultural practices relate to everyday life by introducing students to each of the four core areas of the Cultural Studies minor: Identity Politics, Media, Cultural Practices, and Social Justice.  
88545 - 001 IND, 06/09-14/04/14, 04/14-04/14, instruction mode: Correspondence, Limited to 15; Manates, Kathryn Ann, 4 cr

CSt 4691. Independent Study in Cultural Studies  
(A-F only; max crs B; prereq instructor consent)  
Directed reading, research, or involvement in an issue leading to the preparation of a paper or other product.  
84243 - 001 IND, 06/09-14/08/14, 08/14-08/14, instruction mode: Independent/Directed Studies; Emad, Mitra C, 1-6 cr

DANCE (DN)  
141 MPAC, 1215 Orean Court, School of Fine Arts, Duluth, MN 55812-3011  
218-726-8562  
http://www.d.umn.edu/theatre/

ECO 3777. Environmental Economics  
(A-F only; prereq minimum 3 credits, LBSE student, pre-business or pre-accounting or Econ BA major or Econ minor or Accounting or Business Administration minor; credit will not be granted if already received for Econ 3777)  
Analyzing free enterprise system through study of product and resources market supply and demand, utility, production and cost, market structure, resource use, market failures, regulatory role of government, and real-world application of these concepts.  
87972 - 001 IND, 08/00-10/30 times 55-24 MTWThF, LBSE 118, 06/19-06/06/14, instruction mode: Correspondence, Limited to 20; Englund, Karen, 3 cr

EDUC 1030. Principles of Economics: Micro  
(A-F only; prereq Minimum 15 credits or department consent; meets DLE req of Social Sciences; meets LE req of LE CAT)  
Analyzing free enterprise system through study of product and resources market supply and demand, utility, production and cost, market structure, resource use, market failures, regulatory role of government, and real-world application of these concepts.  
88104 - 001 IND, 06/19-06/25 times 15-75 MTWThF, LBSE 125, 05/19-06/06/14, instruction mode: Correspondence, Limited to 60; Jurgens, Linda, 3 cr

EDUC 3777. Environmental Economics  
(A-F only; prereq 1023, preferred but not required: 2032; credit will not be granted if already received for Econ 3777)  
Microeconomic analysis of environmental quality as an economic good. Pollution control, benefit-cost analysis, valuation methodologies and their application to air and water quality, hazardous waste management, preservation.
Econ 3910  Economics of Health Care
Econ 3402  Global Economic Issues

University of Minnesota – Class Schedule for Duluth Campus   Summer 2014

10

May Session
Edc 4234  Science, Technology, and Society
(A-F only; prereq Min 30 credits; no grad credit; meets DLE req of Sustainability)
Nontechnical study of historical and cultural impact of natural science and technology on the earth and its inhabitants.
88788 – 030 LEC, 05/19/14-06/14/14, instruction mode: Correspondence, Limited to 25; Gliszcinski, Daniel Joseph, 3 cr
Course will meet in an online learning environment from May 19 - June 6, 2014.

Edc 7040 Principles of Adult Education
(Phi) Philosophy and application of adult education principles.
88619 – 030 LEC, 05/19/14-06/14/14, instruction mode: Correspondence, Limited to 25; Hazaerebsing, Nedra A, 3 cr
Course will meet in an online learning environment from May 19 - June 6, 2014.

Summer Session
Edc 1100 Human Diversity
(A-F only; meets DLE req of Cultural Diversity in the US; meets LE req of LE CAT6; prereq 1022, 1023, Edc major or minor or LSBE candidate)
Introduction to human cultural diversity. Topics include the global distribution of cultural differences, including ethnicity, gender, age, and social class differences in people. Social, political, and economic implications of human diversity in modern society. Practical in community agency.
88274 – 001 LEC, 06/09/14-06/14/14, instruction mode: Correspondence, Limited to 75; Hazaerebsing, Nedra A, 3 cr
This course will be conducted in an on-line learning environment. A 30 hr practicum will be required and arranged by the student in their local area. The practicum has very specific requirements and should not be arranged until the course begins and approval is given on the chosen practicum site by the Instructor and the Office of Civic Engagement at UMD.

Edc 1101 Education in Modern Society
(A-F only; meets DLE req of Humanities; meets LE req of LE CAT5)
Survey of educational institutions and practices used in different sectors of society. Historical and philosophical foundations of education.
88220 – 001 LEC, 06/09/14-06/14/14, instruction mode: Correspondence, Limited to 75; Goldbrudtnewsen, Frank A, 3 cr
This course will be conducted in an on-line learning environment, June 7 - July 4, 2014.

Edc 1201 Managing Planet Earth
(A-F only; meets DLE req of Sustainability; meets LE req of LE CAT8; prerequisite: 1022, 1023, Edc major or minor or LSBE cand)
Environmental education; exploration of key concepts and policies that govern how nature works; potential solutions to environmental and resource problems.
88856 – 001 LEC, 06/09/14-06/14/14, instruction mode: Correspondence, Limited to 30; Roark, Elizabeth Ann, 3 cr
This course will meet in an on-line learning environment through August 1, 2014.

Edc 3412 Computer in Education
(A-F only; $71.75 course fee in addition to tuition; prereq Pre education or education majors or candidates)
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.
88012 – 001 LEC, 06/30/14-08/14/14, instruction mode: Coursework, Limited to 20; Combined with: 88601 EDUC 5412, 4 cr
Course meets in an online learning environment from June 30-August 1, 2014.

Edc 4229 Teaching Middle School Mathematics
(A-F only; prereq Instructor consent; no grad credit)
The development of middle school concepts through problem-based investigations and applications of standards provides the basis for examining the teaching and learning of mathematics in grades 5 - 8.
88822 – 001 DIS, 09/01/13-09/26/13, MTWTh, MonH 121, 06/16/14-06/26/14, instruction mode: Classroom, Limited to 20; Combined with: 88823 EDUC 5229;
Wohlhuter, Kay A., 4 cr
Course meets with Educ 5229-1.

Edc 5229 Teaching Middle School Mathematics
(A-F only;)
The development of middle school concepts through problem-based investigations and applications of standards provides the basis for examining the teaching and learning of mathematics in grades 5 - 8.
88823 – 001 DIS, 09/01/13-09/26/13, MTWTh, MonH 121, 06/16/14-06/26/14, instruction mode: Classroom, Limited to 5; Combined with: 88822 EDUC 4229;
Wohlhuter, Kay A., 2 cr
This course meets with Educ 4229-1.

Educ 5412 The Computer in Education
(A-F only;)
Introduction to computer use in instructional settings. PC and Mac platforms. Develops basic skills using software commonly used by educators. Teaching strategies using computer-assisted instruction.
88801 – 001 LEC, 06/30/14-08/14/14, instruction mode: Correspondence, Limited to 4; Combined with: 88812 EDUC 3412, 4 cr
Course meets in an online learning environment from June 30-August 1, 2014.

Educ 5414 Using Technology for the Administrative Tasks of Teaching
(A-F only; $71.75 course fee in addition to tuition; prereq Min 60 cr or cell grad, 3412 or 5412, 5413 or instructor consent)
Develops basic computer and educational technology skills focusing on using microcomputers for administrative tasks of teaching.
88609 – 001 LEC, 08/09/14-04/04/14, MTWTh, MonH 239, 08/14/14-09/14/14, instruction mode: Classroom, Limited to 24; McCarthy PhD, David Albert, 4 cr
This course will meet from 8:00 am-2:00 pm each day, with breaks scheduled from 11:00 am until 4:00 pm.

Educ 5990 Research Project
(S; max cr 36; 6 repeats allowed; prereq Instructor consent)
Faculty-supervised research project required for MEd
88790 – 001 LEC, 08:30am-10:00pm Su, TBA, 06/15/14-06/15/14, instruction mode: Primarily Online; Williams, Jason, 6 cr
Registration for M.Ed. Tribal cohort 5 only. This course will be conducted in an online learning environment from June 9 - August 6, 2014.

88791 – 002 LEC, 08:30am-10:00pm Su. TBA, 06/15/14-06/15/14, instruction mode: Primarily Online; Rice, Lynn M, 4 cr
Registration for M.Ed. Tribal Cohort 5 only. This course will be conducted in an online learning environment from June 9 - August 6, 2014, with a face-to-face meeting on Sunday, June 15, 2013; in MonH 55, meets with Educ 5990, sections 1 and 3.

88792 – 003 LEC, 08:30am-10:00pm Su., TBA, 06/15/14-06/15/14, instruction mode: Primarily Online; Rauschenfels, Diane, 4 cr
Registration for M.Ed. Tribal Cohort 5 only. This course will be conducted in an online learning environment from June 9 - August 6, 2014, with a face-to-face meeting on Sunday, June 15, 2013; in MonH 55, meets with Educ 5990, sections 1 and 3.

88793 – 004 IND, 05/19/14-06/14/14, instruction mode: Independent/Directed Studies; Johnson, Christopher William, 1-6 cr
Registration for M.Ed.EE students only.
88794 – 005 IND, 05/19/14-06/14/14, instruction mode: Independent/Directed Studies; Munson, Bruce H, 1-6 cr
Registration for M.Ed.EE students only.

Edc 7001 Introduction to Graduate Study
(A-F only; prereq M.Ed.candidate or instructor consent; credit will not be granted if already received for EHS 7001)
Expectations of graduate study, scholarly writing and online learning. Develops skills in using the Internet for scholarly research and writing, culminating in writing of a literature review.
88617 – 001 LEC, 09:00am-04:00pm Su, MonH 151, 06/14/14-06/14/14, instruction mode: Primarily Online; Limited to 25; Onczewski, Anil Jackie, 2 cr
Registration for M.Ed. Cohort 24 only; course will meet in an online learning environment from June 9-July 11, 2014 with a face-to-face meeting on Saturday, June 14, 2014 in MonH 151.

Edc 7004 Foundations of Educational Research
(A-F only; prereq M.Ed student or MEd student or instructor consent; credit will not be granted if already received for EHS 7004)
Provides foundational knowledge in being a consumer 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 research statement and investigating current literature and research on that topic. Includes emphasis on ethical and responsible research protocol with underlying ethical and research policies.
88814 – 001 LEC, 09:00am-04:00pm Su, MonH 151, 07/12/14-07/12/14, instruction mode: Primarily Online, Limited to 25; Wohlhuter, Kay A., 2 cr
Registration for M.Ed. Cohort 24 only; course meets from July 7 - August 1, 2014 in an online learning environment,
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>CRs</th>
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<th>Prerequisites</th>
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<tr>
<td>EduAd 5911</td>
<td>Leadership and Personal Growth</td>
<td>Johnson, Christopher William</td>
<td>3 cr</td>
<td>25</td>
<td>EdD or EdM in Educational Administration, M.Ed., or instructor consent.</td>
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<tr>
<td>EduAd 5918</td>
<td>Continuous Improvement Processes for Schools</td>
<td>Falk, Dennis R</td>
<td>3 cr</td>
<td>10</td>
<td>Ed.D. student or instructor consent.</td>
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<td>EduAd 6999</td>
<td>Internship: Principals Additional Field</td>
<td>Williams, Julia M.</td>
<td>3 cr</td>
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<td>Ed.D. student or instructor consent.</td>
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<td>Engl 4097</td>
<td>Internship for English Majors</td>
<td>Rosandich PhD, Ryan G</td>
<td>1-18 cr</td>
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<td>EMgt 8994</td>
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<td>1-4 cr</td>
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<td>EMgt 9991</td>
<td>Independent Study in Management</td>
<td>Rosandich PhD, Ryan G</td>
<td>1-18 cr</td>
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<td>Independent study; instructor approval.</td>
</tr>
</tbody>
</table>

This information is accurate as of: 03/03/2014
ENED 5907 Graduate Internship (S-N; max crs 3; prereq 8906, instructor consent)
Supervised practical experience in an approved business, agency, or organization seeking student interns with strong skills and/or knowledge in English. Placement is in a variety of work fields, including publishing, museumship, librarianship, theatre, and public service.
ENGL 5991 Independent Study (max crs 8; 8 repeats allowed; prereq instructor consent, maximum 6 credits may be applied to grad program)
Students choose projects in consultation with their instructor.
ENVIRONMENTAL EDUCATION (EnEd)
110 SpHC, 1216 Ordean Court, College of Education and Human Service Professions
Email: Jen.Lloyd@umn.edu
http://www.d.umn.edu/teper/
College of Education & Human Service Professions
May Session
EnEd 3290 Outdoor Leadership Field Experience
(A-F only; $286.00 course fee in addition to tuition; prereq 3309)
Practice, theory, and methods involved in leadership development including a detailed analysis of the qualities and roles of leaders in outdoor educational settings.
ENGL 5901 Independent Study
(A-F; max crs 3; 3 repeats allowed; prereq 60 credits, instructor consent; no grad credit; credit will not be granted if already received for Rec 4996)
Supervised field experience in outdoor education.
ES 3590 Sustainable Food Systems
(A-F only; meets DLE req of Sustainability)
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.
ES 4097 Internship
(S-N; prereq 4090 or 5040, ES major. No grad credit; credit will not be granted if already received for ES 4001)
Practical experience in some field of environmental work, under direction of a faculty adviser and a work-site adviser.
ES 4997 Internship
(A-F; max crs 3; 3 repeats allowed; prereq 60 credits, instructor consent; no grad credit; credit will not be granted if already received for ES 4001)
Directed readings and projects for students who wish to do independent advanced study or work on topics not normally covered in other courses.
FAMILY MEDICINE (FMed)
141 5th Med. 1035 University Drive, University of Minnesota School Duluth, Duluth, MN 55812-3011
218-726-8552
http://www.fm.umn.edu/
Medical School - Duluth Campus
Summer Session
FMed 5591 Independent Study
(max crs 12; 4 repeats allowed; prereq department consent)
Intensive, independent study project of student's interest in medical research. Interdisciplinary fellowship, preceptorship in rural health care delivery, or another medical area approved by Department of Family Medicine.
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<tr>
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<td>FORS 1100</td>
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<td>FORS 1101</td>
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<td>FORS 2201</td>
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<td>FORS 2203</td>
<td>International Education</td>
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<td>FORS 3175</td>
<td>HLTH 3990 Holistic Health the Hawaiian Way</td>
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**FOREIGN STUDIES (FORS)**

**UMD-Academic Affairs**

**Summer Session**

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**GEOGRAPHIC INFORMATION SCIENCE (GIS)**

**College of Liberal Arts**

**May Session**

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<td>GIS 3952</td>
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<td>GIS 3956</td>
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**Summer Session**

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<td>GIS 3952</td>
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<td>GIS 3956</td>
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**Summer 2014**

**GEOGRAPHIC (Geog)**

**Geog 2306 Environmental Conservation**

**Geog 3981 Research in Geography**

**Geog 3991 Independent Study in Geography**

**Geog 3997 Internship in Geography**

**Geog 5910 Independent Study in Geography**

**Geog 1304 Human Geography**

**Geog 2552 Introduction to Maps and Geospatial Information**

**College of Liberal Arts**

**May Session**

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<td>Independent Study in GIS</td>
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<td>GIS 3953</td>
<td>Internship in GIS</td>
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<tr>
<td>GIS 3954</td>
<td>Independent Study in GIS</td>
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This information is accurate as of: 03/03/2014
University of Minnesota – Class Schedule for Duluth Campus   Summer 2014

GEOLOGY (Geol) 229 HH, Illi-Kirkby Drive, Swenson College of Science & Engineering, Duluth, MN 55812-2011 218-276-8385

May Session

Geol 301 Independent Study (max crs 4; 4 repeats allowed; prereq instructor consent) Directed readings and projects on topics not normally covered in other courses.

Health

Health (Hlth)

Hlth 1100 Health and Wellness Strategies for Life (A-F only; meets LE req of LE CAT8) A lecture series introducing students to health and wellness encompassing physical, emotional, 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.

Hlth 1700 First Responder (A-F only; $34.00 course fee in addition to tuition) Principles of emergency response and accident prevention in the home and community. Leads to Red Cross first emergency responder certification.

Hlth 3341 Encountering Death and Grief: A Cross-Cultural Journey (A-F only; credit will not be granted if already received for 5341; meets DLE req of Cultural Diversity in the US) Grief, loss, death, dying, and bereavement in our society as understood by children, adolescents, and adults. Review of research and current literature; education program planning strategies for individuals associated with schools, agencies, organizations, or workplaces.

Hlth 4996 Internship in Health Education (A-F only; prereq credit will not be granted if already received for 5341; meets DLE req of Cultural Diversity in the US) Supervised entry-level health education practical experience. To activate your account go to https://www.umn.edu/initiate and follow the directions.

Hlth 3101 Community Health (A-F only; prereq Minimum 30 credits) Health promotion and disease prevention at local, state, and national levels. Comparison between health problems of individuals and those of groups. Analysis of functions and roles of voluntary and official agencies. Exploration of community-based programs.

Hlth 3202 Drug Education (A-F only; prereq Minimum 30 credits) Overview of concepts of marketing, analysis, selection, and decision making regarding health care, products, services, and providers.

Hlth 4996 Internship in Health Education (A-F only; prereq credit will not be granted if already received for 5341; meets DLE req of Cultural Diversity in the US) Supervised entry-level health education practical experience. To activate your account go to https://www.umn.edu/initiate and follow the directions.

Graduate School (Grad) UMD-Academic Affairs Summer Session

Grad 999 Graduate School Academic Status (NGA; 90 repeats allowed; prereq Grad Students Only) A zero-credit registration mechanism for Grad School students who must register solely to meet the Grad School’s registration requirement. Registration requirements established by departments and agencies within or outside the University (which include, but are not restricted to registration required to hold an assistantship, athletic eligibility, maintenance of legal visa status or defer loans) are NOT met by Grad 999.

Grad 8002 -001 IND, instruction mode: Independent/Directed Studies, Limited to 300, 0 cr

Graduate School (Grad) UMD-Academic Affairs Summer Session

Health (Hlth)

Hlth 1100 Health and Wellness Strategies for Life (A-F only; meets LE req of LE CAT8) A lecture series introducing students to health and wellness encompassing physical, emotional, 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.

Hlth 1700 First Responder (A-F only; $34.00 course fee in addition to tuition) Principles of emergency response and accident prevention in the home and community. Leads to Red Cross first emergency responder certification.

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Hlth 4996 Internship in Health Education (A-F only; prereq credit will not be granted if already received for 5341; meets DLE req of Cultural Diversity in the US) Supervised entry-level health education practical experience. To activate your account go to https://www.umn.edu/initiate and follow the directions.

Graduate School (Grad) UMD-Academic Affairs Summer Session

Grad 999 Graduate School Academic Status (NGA; 90 repeats allowed; prereq Grad Students Only) A zero-credit registration mechanism for Grad School students who must register solely to meet the Grad School’s registration requirement. Registration requirements established by departments and agencies within or outside the University (which include, but are not restricted to registration required to hold an assistantship, athletic eligibility, maintenance of legal visa status or defer loans) are NOT met by Grad 999.

Grad 8002 -001 IND, instruction mode: Independent/Directed Studies, Limited to 300, 0 cr

Graduate School (Grad) UMD-Academic Affairs Summer Session

GEOLOGY (Geol) 229 HH, Illi-Kirkby Drive, Swenson College of Science & Engineering, Duluth, MN 55812-2011 218-276-8385

May Session

Geol 301 Independent Study (max crs 4; 4 repeats allowed; prereq instructor consent) Directed readings and projects on topics not normally covered in other courses.

Health

Health (Hlth)

Hlth 1100 Health and Wellness Strategies for Life (A-F only; meets LE req of LE CAT8) A lecture series introducing students to health and wellness encompassing physical, emotional, 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.

Hlth 1700 First Responder (A-F only; $34.00 course fee in addition to tuition) Principles of emergency response and accident prevention in the home and community. Leads to Red Cross first emergency responder certification.

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Hlth 3101 Community Health (A-F only; prereq Minimum 30 credits) Health promotion and disease prevention at local, state, and national levels. Comparison between health problems of individuals and those of groups. Analysis of functions and roles of voluntary and official agencies. Exploration of community-based programs.

Graduate School (Grad) UMD-Academic Affairs Summer Session

Grad 999 Graduate School Academic Status (NGA; 90 repeats allowed; prereq Grad Students Only) A zero-credit registration mechanism for Grad School students who must register solely to meet the Grad School’s registration requirement. Registration requirements established by departments and agencies within or outside the University (which include, but are not restricted to registration required to hold an assistantship, athletic eligibility, maintenance of legal visa status or defer loans) are NOT met by Grad 999.

Grad 8002 -001 IND, instruction mode: Independent/Directed Studies, Limited to 300, 0 cr
University of Minnesota – Class Schedule for Duluth Campus

Summer 2014

Arranged.

HEALTH CARE MANAGEMENT (HCM)
213L LSBH, 1318 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011
218-726-6695
http://lsbe.d.umn.edu/healthcare/healthcare.php

Labovitz School of Business & Economics
Summer Session

HCM 4591 Independent Study
(A-F; max crs 3; prereq LSBE candidate, instructor consent, no grad credit)
Special work in health care management that extends beyond or in greater depth than regular course offerings.
88216 --001 IND, 06/09/14-08/14/14, instruction mode: Independent/Directed Studies; Schultz, Jennifer, 1-3 cr

HCM 4597 Internship
(A-F; prereq LSBE candidate, consent of program director or internship director, no grad credit)
Work-integrated learning program providing practical experiences within the health services industry. Students participate in approved program within cooperating businesses, governmental agencies, or civic organizations. Requires a minimum of 200 hours of work experience, assigned written reports, and performance evaluations.
88170 --001 F WK, instruction mode: Independent/Directed Studies, 3 cr

HEALTH, PHYSICAL EDUCATION AND RECREATION (HPER)
110 SpHC, 1216 Ordean Court, College of Education and Human Service Professions, Duluth, MN 55812-3011
218-726-7120
http://www.d.umn.edu/hper/

College of Education & Human Service Professions
May Session

HPER 3300 Health and Physical Education in the Elementary School
(A-F only; prereq ELED Major)
Developing health and physical education programs for the elementary school classroom teacher. Emphasis on planning appropriate health and physical education lessons and teaching developmental movement experiences.
88353 --003 LE, 01:00pm-05:10pm MTWThF, SpHC 8, 05/19/14-06/14/14, 1-3 cr

History (Hist)
265 ABAH, 1121 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-7253
http://www.d.umn.edu/hist

College of Liberal Arts
Summer Session

Hist 1027 Introduction to Islam
(A-F; meets DLE req of Humanities; meets LE req of LE CATT; meets LEIP req of LEIP CAT07)
This course is an introduction to Islam delivered fully online through MOODLE. It starts with the history of the pre-Islamic Middle East, the life of the Prophet Muhammad; and the emergence of Islam. It follows the course of the Sunni and Traditions; the tenets of the faith, sectarian differences; gender and the family, and Islam’s encounter with the Occident.
88857 --001 LE, 06/09/14-07/04/14, instruction mode: Correspondence, Limited to 25; Stanfield-Johnson, Rosemary, 3 cr

Hist 1400 Modern World History from 1500 to present
(A-F only; meets DLE req of Humanities; meets LE req of LE CATT; meets LEIP req of LEIP CAT07)
This course surveys the evolution of the world from relatively isolated regions around 1500 to the global interdependence whose trends continues to the present day. This course will examine the emergence of the interdependence among major civilizations, especially between the West and the East. This latest interaction was initiated by the European colonizations and sustained by the contributions of other civilizations. Major themes and issues of the course include the social, cultural, political, economic, demographic, and environmental ramifications of the global interaction.
88655 --001 LE, 06/09/14-07/04/14, instruction mode: Correspondence, Limited to 45; Fang, Jiang, 3 cr

Hist 3091 Directed Readings in History
(A-F only; max crs 16; 16 repeats allowed; prereq instructor consent)
By arrangement in the department: individual study of material below the research level or formal study of history at an accredited institution abroad.
88906 --001 IND, 06/09/14-07/04/14, instruction mode: Independent/Directed Studies; Matthews, Steve, 1-4 cr

Hist 3346 History of Hollywood
(A-F only; prereq credit will not be granted if already received for HIST 3246)
Study of American cinema in terms of how Hollywood functioned, what kind of films it produced, and why. Through the lens of Hollywood, the core issues of American life in the twentieth century will be examined.
88321 --001 LE, 06/09/14-07/04/14, instruction mode: Correspondence, Limited to 20; Pogorelchin, Alex S, 3 cr

Industrial Engineering (IE)
105 VKH, 1305 Ordean Court, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-6161
http://www.umn.edu/ie

Swenson College of Science & Engineering
May Session

IE 4491 Independent Study
(A-F only; max crs 4; 4 repeats allowed; prereq BSIE or BSME candidate, department consent)
Directed individual study arranged with instructor and department head before registration.
88689 --002 IND, 05/19/14-06/06/14, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

IE 4596 Cooperative Education
(A-F only; Credit will not be granted if credit has been received for: ME 4416; max crs 2; prereq BSIE candidate, no grad credit)
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.
88158 --001 F WK, 06/09/14-07/04/14, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1 cr

IE 4596 Cooperative Education II
(A-F only; Credit will not be granted if credit has been received for: ME 4416; prereq 4416 or ME 4419; no grad credit)
Advanced 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.
88969 --001 F WK, instruction mode: Independent/Directed Studies, Limited to 5; Rosandich PhD, Ryan G, 2 cr

IE 4941 Independent Study
(A-F only; max crs 4; 4 repeats allowed; prereq BSIE or BSME candidate, department consent)
Directed individual study arranged with instructor and department head before registration.
88162 --001 IND, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

IE 5991 Independent Study in Industrial Engineering
(max crs 6; 6 repeats allowed; prereq MSEM candidate, department 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 special projects.
88163 --001 IND, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

International Studies (IntS)
304 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-7534
http://www.umn.edu/pol/

College of Liberal Arts
Summer Session

IntS 1191 International Study
(A-F only; max crs 15; 15 repeats allowed; prereq department consent)
For students who want to take an independent study course while traveling or living in a foreign country. Course must be approved by supervising faculty member and director of international studies.
87999 --001 IND, instruction mode: Independent/Directed Studies, Limited to 3.1 cr

Journalism (Jour)
457 H, 1201 Ordean Court, College of Liberal Arts, Duluth, MN 55812-3011
218-726-8112
http://www.d.umn.edu/wirt/

College of Liberal Arts
May Session

Jour 3700 Media Law and Ethics
(A-F only; prereq Writ 1120)
Examines laws, regulations and major court decisions that affect journalists and news organizations. Topics include First Amendment principles of press freedom, libel, invasion of privacy, prior restraint, access to information, and the regulation of electronic media content.
88542 --001 FWK, 04/21/14-09/01/14, instruction mode: Correspondence, Limited to 20; Wesner, Keston, 3 cr

Jour 4102 Editing II: Newsroom Practice
(A-F; Credit will not be granted if credit has been received for: JOUR 5102; prereq 2001, 2001B, 3001; no grad credit)
Experience in a working newsroom. Apply skills from other journalism classes to plan, produce and manage an online news publication. Basic principles as well as practical skills with advanced computing tools.
88842 --001 FWK, 04/21-09/01/14, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

Jour 5107 Journalism Internship
(S-N; Credit will not be granted if credit has been received for: JOUR 4107; max crs 3; prereq 2001, 3000; no grad credit)
Supervised professional experience as a working staff member with a newspaper, magazine, broadcast station or other communications organization.
88124 --001 FWK, 04/21-09/01/14, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

Linguistics (Ling)
420 H, 1201 Ordean Court, College of Liberal Arts, Duluth, MN 55812-3011
218-726-8112
http://www.d.umn.edu/wirt/

College of Liberal Arts
Summer Session

Ling 3591 Independent Study in Linguistics
(A-F only; max crs 6; 6 repeats allowed; prereq 1112 or instructor consent, department consent)
Directed reading and/or research.
87964 --001 IND, 04/21-09/01/14, instruction mode: Independent/Directed Studies; Park, Chongwon, 3 cr

Ling 8591 Independent Study in Linguistics
(A-F only; max crs 6; 6 repeats allowed; prereq department approval)
Directed reading and/or research.
87965 --001 IND, 04/21-09/01/14, instruction mode: Independent/Directed Studies; Park, Chongwon, 1-3 cr

Management Studies (MGIS)
365A LSBH, 1318 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011
218-726-8992
http://lsbe.d.umn.edu/mgtsstudies/mgtsstudies.php

Labovitz School of Business & Economics
May Session

This information is accurate as of: 03/03/2014
MGT 3401 Organizational Behavior and Management
(A-F; prereq LSB student or business administration minor or college consent)
Introduction to organizations, management processes, and understanding behavior at work. Covers the effects of the external environment, organizational structure, job design, teams, and leadership on employees, present new models, and examine behavior.

87981 -001 LEC, 11:00am-01:55pm MTWThF, LSB 129, 05/19/14-06/14/14, instruction mode: Classroom, Limited to: 33; Combined with: 88049 MGS 3401; Mencl, Jennifer, 3 cr

MGT 3801 Human Resource Management
(A-F; prereq LSB candidate or approved non-LSBE business administration 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.

88013 -001 LEC, 08:00am-10:55am MTWThF, LSB 135, 05/19/14-06/14/14, instruction mode: Classroom, Limited to: 33; Combined with: 88050 MGS 3801; Xiu, Lin, 3 cr

MGT 4481 Strategic Management
(A-F; prereq 3401, 3801, MKTG 3701, FMS 3301, FMS 3601, 90 credits, LSB student or college consent; no grad credit)
Integration of basic functions of marketing, finance, production, and behavioral sciences. Emphasis on organizational environments and strategies and implementation of competitive strategies that respond to social, political, and economic conditions from a top management perspective.

87984 -001 LEC, 11:00am-01:55pm MTWThF, LSB 233, 05/19/14-06/14/14, instruction mode: Classroom, Limited to: 40; Aggarwal, Praveen, 3 cr

MGT 3401 Organizational Behavior and Management
(A-F; max crs 3; prereq 3401, 3801, LSB student candidate, instructor consent)
Requires design and development of community-related project involving volunteers. Interns identify project, contact appropriate persons, obtain approval and submit written proposal. Requires completion of minimum of 100-300 hours, maintenance of weekly journal, oral skills in a chosen business or industry sector.

87982 -001 FWK, 04/21/14-06/14/14, instruction mode: Independent/Directed Studies, Limited to: 10; Kaas, Duane A, 1.5 cr

MGT 4421 Leadership
(A-F; prereq 3401, LSB student or college consent) A survey of the leadership literature aimed at the development of an understanding of leaders and the leadership process. Examination of such questions as: Who is a leader? What is the nature of leadership as a process? How do leaders influence others? What is participative leadership? What is charismatic and transformational leadership?

87983 -001 LEC, 07/07/14-08/14/14, instruction mode: Correspondence, 3 cr

MKTG 4472 Entrepreneurship
(A-F; prereq LSB student or college consent) Seminar on the fundamentals of entrepreneurship, the characteristics of entrepreneurs, and the life cycle of a new venture: creating and starting a new venture; financing the new venture; managing, growing, and ending the new venture.

88896 -001 LEC, 06/09/14-08/14/14, instruction mode: Correspondence, Limited to: 40; Joshi, Ill, 3 cr

MKTG 4475 Negotiations, Bargaining and Conflict Resolution
(A-F; prereq LSB student, 3401 or instructor consent) Combines analytical material on the negotiation process, with a series of negotiating experiences, to develop your understanding of, and skills in, negotiating and resolving conflicts in business. Covers topics and strategies appropriate for use between people, departments, organizations, and countries, across a variety of industries.

88897 -001 LEC, 11:00am-01:30pm MTWThF, LSB 233, 06/09/14-07/14/14, instruction mode: Classroom, 3 cr

MKTG 4481 Strategic Management
(A-F; prereq 3401, 3801, MKTG 3701, FMS 3301, FMS 3601, 90 credits, LSB student candidate or college consent; no grad credit)
Integration of basic functions of marketing, finance, production, and behavioral sciences. Emphasis on organizational environments and development and implementation of competitive strategies that respond to social, political, and economic conditions from a top management perspective.

88899 -001 LEC, 06/09/14-08/14/14, instruction mode: Correspondence, Limited to: 40; Liang, Xin, 3 cr

MARKETING (MKTG)
385 LSB, 2138 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011

MKTG 3701 Principles of Marketing
(A-F; prereq LSB candidate or approved non-LSBE business administration minor or college consent) Marketing as a process of exchange management. Emphasis on conceptual tools necessary to deal with both strategic marketing management issues and tactical management of product, price, promotion, and distribution.

88212 -001 LEC, 08:00am-10:55am MTWThF, LSB 233, 05/19/14-06/14/14, instruction mode: Classroom, Limited to: 40; Aggarwal, Praveen, 3 cr

MKTG 3751 Marketing Ethics
(A-F; prereq 3701, LSB student candidate or college consent) Introduces a broad range of ethical issues encountered by marketing practitioners, and helps discover, develop, and test personal sets of guidelines for making judgments when such issues arise.

88300 -001 DIS, 11:00am-01:55pm MTWThF, LSB 125, 05/19/14-06/14/14, instruction mode: Classroom, Limited to: 40; Castleberry Sr, Stephen Byron, 3 cr

This information is accurate as of: 03/03/2014
MBA 8911 Financial Management
(A only; prereq FMS 3601 or equivalent, MBA student or college consent)
Overview of the fundamental concepts and principles of financial management and how these analyses are implemented by financial managers in making strategic financial decisions. (A, Y) Topics include development in capital market theory, capital budgeting analysis in terms of the NPV and real options approaches, costs of capital, long term financing, capital structure analysis and international financial strategies.

89162 --800 LEC, 03:00pm-09:00pm F, TBA, ROCHESTER, 05/30-06/30 09:00am-12:30pm S, TBA, ROCHESTER, 06/03-06/31 06:00am-09:00pm F, TBA, ROCHESTER, 06/13-06/14 09:00am-12:30pm S, TBA, ROCHESTER, 06/14-06/16 09:00am-12:30pm F, TBA, ROCHESTER, 06/27-07/24 08:00am-12:30pm S, TBA, ROCHESTER, 07/25-08/04 06:00pm-09:00pm F, TBA, ROCHESTER, 07/11-07/14 08:00am-12:30pm S., TBA, ROCHESTER, 07/12-07/14 12:12am-01:12am, instruction mode: Classroom, Limited to: 25; Wong, Shee Q, 3 cr

MBA 8910 Improvisational Theater for Business
(A only; max crs: 3; 3 repeats allowed; prereq MBA student or instructor consent)
This course is intended to help students develop a platform to bet a better understanding of themselves and their relationship with others in order to develop some key soft skills that are important in the modern business environment. It applies the principles of improvisational theater to help students explore and develop their ability to handle risky, uncertain situations and respond effectively and efficiently.

89230 --001 LEC, 06:00pm-09:30pm MTWTH, LSB 233, 07/17-07/24, instruction mode: Classroom, Limited to: 30; Isbey, Tom K, 1 cr

MBA 8891 Independent Study
(A only; max crs: 6; 6 repeats allowed; prereq college consent)
Provides opportunity for focused, integrative or interdisciplinary projects or research, under the guidance of a faculty member in various areas of business administration that extend beyond or in greater depth than regular courses.

88993 --001 IND, 06/09-06/14/01 08:00am-11:00am, instruction mode: Independent/Directed Studies, Limited to: 20; Vaidyanathan, Raji, 1-3 cr

MBA 8894 Directed Research
(A only; max crs: 3; 3 repeats allowed; prereq MBA student, college consent)
Directed research.

88867 --002 IND, 04/21-04/21 09:00am-11:00am, instruction mode: Independent/Directed Studies, Limited to: 10; Vaidyanathan, Raji, 1-3 cr

MBA 8895 Special Topics: (Various Titles to be Assigned)
(A- F only; max crs: 8; 8 repeats allowed; prereq MBA student or department consent)
Special topics on or integrative, interdisciplinary study of problems in accounting, economics, and business administration.

89123 --001 LEC, 07/28-08/28 29/14-09:00am, instruction mode: Correspondence, Limited to: 30; Leadership & Organization; Bourne, Kristina, 1-3 cr

MATHMATICS (Math)
140 SCC, 1171 University Drive, Swenson College of Science & Education, Duluth, MN 55812-3011
http://www.umsystem.edu/math
Swenson College of Science & Engineering
Summer Session
Math 1005 College Algebra
(A only; prereq Math ACT 20 or higher or SFR 0103 or department consent)
Computer based, on site course with students working at a semi-self paced taking notes in a guided notebook and completing online homework while asking the instructor questions as needed. Course topics include basic concepts solving equations, inequalities and graphs as well as an introduction to function concepts and graphing for polynomial, rational, logarithmic, and exponential functions.

88781 --001 LEC, 09:30am-11:30am MTWTH, SBE 304, 07/06-08/07 09:00am-11:00am, instruction mode: Classroom, Limited to: 30; Schmelter, Sally, 1-3 cr

Math 1140 Mathematics for Elementary Education I
(A only; prereq Pre-ESE and Math ACT 18 or higher or a grade of at least C- in SSP 103 or department consent; credit will not be granted if already received for Math 1141; meets DLE requirement of Logic & Quantitative Reasoning) Subject matter for effective elementary teaching. Problem solving and structure of number systems.

88856 --001 LEC, 10:00am-12:00am M, SBE 306, 05/13-05/14/07, instruction mode: Classroom, Limited to: 30; Diet, Diana Lynn, 3 cr

Math 1140 Finite Mathematics and Introduction to Calculus
(A only; prereq Math ACT 24 or higher or a grade of at least C- in Math 1005 or department consent; if you have received credit for 1290 or 1296 or 1596, you will not receive credit for Math 1140; meets DLE requirement of Logic & Quantitative Reasoning; meets LE requirement of CAT2) Elementary functions, matrices, graphical and algebraic methods for solving systems of linear equations and inequalities, introduction to linear programming, and abbreviated treatment of calculus with emphasis on business and social science applications.

88721 --001 LEC, 09:00am-11:00am MTWTH, SSC 120, 07/17-07/24/14, instruction mode: Classroom; Limited to: 30; Lattier, Carmen Marie, 5 cr

Math 1250 Precalculus Analysis
(A only; prereq Math ACT 24 or higher or a grade of at least C- in Math 1005 or department consent; meets DLE requirement of Logic & Quantitative Reasoning; meets LE requirement of CAT2) Inequalities, analytical geometry; relations, functions, and graphs; exponential, logarithmic, and trigonometric functions; complex numbers and De Moivre's Theorem; permutations, combinations, binomial theorem, and mathematical induction.

88071 --001 LEC, 09:00am-11:30am MTWTH, SBE 32, 05/15-05/16/04, instruction mode: Classroom, Limited to: 30; Fei, Guilua, 4 cr

Math 1296 Calculus I
(A-F only; Credit will not be granted if credit has been received for: Math 1290, Math 1596H, Math 1596; prereq Math ACT 27 or higher or a grade of at least C- in Math 1250 or dept consent; meets DLE requirement of Logic & Quantitative Reasoning; meets LE requirement of CAT2) First part of a standard introduction to calculus of functions of a single variable. Limits, continuity, derivatives, integrals, and their applications.

87897 --001 LEC, 09:30am-11:30am MTWTH, SBE 51, 05/15-05/16/04, instruction mode: Classroom, Limited to: 30; Peckham, Bruce B L, 5 cr

Math 1297 Calculus II
(A-F only; Credit will not be granted if credit has been received for: Math 1097; prereq A grade of at least C- in Math 1290 or 1296 or 1596; meets DLE requirement of Logic & Quantitative Reasoning) Second part of a standard introduction to calculus. Vectors, applications of integrals, transcendental functions, series, and multivariable functions and partial derivatives.

87898 --001 LEC, 09:30am-11:25am MTWTH, SBE 51, 07/07-07/08/22, instruction mode: Classroom, Limited to: 30; Franczek, Dolab, 5 cr

Math 3091 Independent Study
(A only; max crs: 8; 8 repeats allowed; prereq department consent)
Directed reading and/or research in mathematics. Must be advised with instructor and department head before registration.

Math 3210 Mathematics Tutorial Project
(S only; max crs: 4; 4 repeats allowed; prereq: 1290 or 1296 or 1596, SFR 3003, instructor consent, a grade of C- or better is required in all prerequisite courses) Primarily for tutoring 10xx mathematics courses, under supervision of mathematics department member.

Math 3280 Differential Equations with Linear Algebra
(A only; 71.75 course fee in addition to tuition; prereq A grade of at least C- in 1290 or 1597 or 2008-1) First, second, and higher order equations; series methods; Laplace transforms; systems; software; modeling applications; introduction to vectors; matrix algebra. Eigenvalues.

Math 87902 --001 LAB, 09:00am-10:00am MTWTH, SBE 414, 06/16-07/04/14, instruction mode: Classroom, Limited to: 30; Li, Zhanzhi, 4 cr
Math 3296 Calculus III
(A-F only; 5 cr; course fee in addition to tuition; prereq: A grade of at least C- in 1297 or 1597)
Third part of a standard introduction to calculus. Conic sections, vectors, vector-valued functions, partial derivatives and multiple integrals, vector fields, Green’s and Stokes’ theorems.
88353 –002 LAB, 08:10am-10:10am M, T, W, Th, F, F H, 470, 05/19/14-07/07/14, instruction mode: Classroom, Limited to: 30; Hampton, Marshall E, 4 cr, 001 LEC, 09:30am-10:50am M, T, W, Th, F, 12:30pm MTWTh, 1-16 cr, instruction mode: Classroom, Limited to: 30; Hampton, Marshall E, PC reserved until 11:50AM.

Math 3326 Vectors and Matrices
(A-F only; prereq 1297 or 1597 with a grade of C- or better)
Solving systems of linear equations; matrix algebra; determinants; an introduction to vector spaces, subspaces, linear independence, span, basis, coordinates, matrix transformations, eigenvalues, eigenvectors, matrix factorizations, and applications to computer graphics.
88589 –001 LEC, 09:30am-11:00am MTWTh, SBE 17, 05/19/14-07/07/14, instruction mode: Classroom, Limited to: 30; Gu, Wenhao, 3 cr

Math 3941 Undergraduate Colloquium
(S-N only; prereq Math major or minor, department consent; must register during semester of 160th point)
Exposure to UMD mathematics-related colloquia. Sixteen points required: one for attending a colloquium; one for writing an acceptable report on a colloquium (at least four must be earned through writing); up to eight for giving a colloquium.
87901 –001 LEC, 06/09/14-08/01/14, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1 cr

Math 5991 Independent Study
(A-F only; max crs 8; 8 repeats allowed; prereq department consent; Maximum 6 credits to a grad program.)
Directed individual study with instructor consent. May include readings, research and/or in mathematics; must be arranged with instructor and department head before registration.
87930 –001 IND, instruction mode: Independent/Directed Studies; Fei, Guihua, 1-4 cr
87931 –002 IND, instruction mode: Independent/Directed Studies; Franke, Daniel, 1-4 cr
87932 –003 IND, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1-4 cr
87933 –004 IND, instruction mode: Independent/Directed Studies; Green, Richard F, 1-4 cr
87934 –005 IND, instruction mode: Independent/Directed Studies; Greene, John Robert, 1-4 cr
87935 –006 IND, instruction mode: Independent/Directed Studies; James, Barry R, 1-4 cr
87936 –007 IND, instruction mode: Independent/Directed Studies; James, Kang Ling, 1-4 cr
87937 –008 IND, instruction mode: Independent/Directed Studies; Lattner, Cameron, 1-4 cr
87938 –009 IND, instruction mode: Independent/Directed Studies; Lenz, Kathryn E, 1-4 cr
87939 –010 IND, instruction mode: Independent/Directed Studies; Liu, Zhanyi, 1-4 cr
87940 –011 IND, instruction mode: Independent/Directed Studies; McFarland, Robert L, 1-4 cr
87941 –012 IND, instruction mode: Independent/Directed Studies; Peckham, Bruce B L, 1-4 cr
87942 –013 IND, instruction mode: Independent/Directed Studies; Peckham, Bruce B L, 1-4 cr
88387 –014 IND, instruction mode: Independent/Directed Studies; Chiu, Steven, 1-4 cr
88393 –015 IND, instruction mode: Independent/Directed Studies; Chiu, Steven, 1-4 cr
88406 –016 IND, instruction mode: Independent/Directed Studies; Trogdon, Steven Arman, 1-4 cr
88185 –017 IND, instruction mode: Independent/Directed Studies; Stech, Harlan W, 1-4 cr
88002 –018 IND, instruction mode: Independent/Directed Studies; Li, Xuan, 1-4 cr
88388 –019 IND, instruction mode: Independent/Directed Studies; Li, Yang, 1-4 cr

Math 8994 Directed Research
(A-F only; max crs 12; 12 repeats allowed; prereq instructor consent)
TBD
87944 –001 IND, instruction mode: Independent/Directed Studies; Fei, Guihua, 1-4 cr
87945 –002 IND, instruction mode: Independent/Directed Studies; Franke, Daniel, 1-4 cr
87946 –003 IND, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1-4 cr
87947 –004 IND, instruction mode: Independent/Directed Studies; Green, Richard F, 1-4 cr
87948 –005 IND, instruction mode: Independent/Directed Studies; James, Barry R, 1-4 cr
87950 –007 IND, instruction mode: Independent/Directed Studies; James, Kang Ling, 1-4 cr
87951 –008 IND, instruction mode: Independent/Directed Studies; Lenz, Kathryn E, 1-4 cr
87953 –010 IND, instruction mode: Independent/Directed Studies; Liu, Zhanyi, 1-4 cr
87954 –011 IND, instruction mode: Independent/Directed Studies; McFarland, Robert L, 1-4 cr
87955 –012 IND, instruction mode: Independent/Directed Studies; Peckham, Bruce B L, 1-4 cr
87956 –013 IND, instruction mode: Independent/Directed Studies; Chiu, Steven, 1-4 cr
87957 –015 IND, instruction mode: Independent/Directed Studies; Stech, Harlan W, 1-4 cr
88187 –017 IND, instruction mode: Independent/Directed Studies; Stech, Harlan W, 1-4 cr
88612 –018 IND, instruction mode: Independent/Directed Studies; Li, Xuan, 1-4 cr
88642 –019 IND, instruction mode: Independent/Directed Studies; Li, Yang, 1-4 cr

ME 4196 Cooperative Education
(A-F only; Credit will not be granted if credit has been received for E 4195; 4 cr; max crs 2; prereq BMSE candidate, instructor consent, no grad credit)
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.
88166 –001 FWK, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1 cr

ME 4296 Cooperative Education II
(A-F only; Credit will not be granted if credit has been received for IE 4295; 1 cr; 4 or IE 4296; no grad credit)
Advanced 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.
88662 –001 FWK, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 2 cr

ME 4491 Independent Study in Mechanical Engineering
(max crs 4; 4 repeats allowed; prereq Senior standing in engineering discipline, instructor consent)
Directed study of special interest not available in standard curriculum. Must be arranged with instructor before registration. May include readings, research and/or special projects.
88154 –001 IND, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

ME 5991 Independent Study in Mechanical Engineering
(max crs 6; 6 repeats allowed; prereq MSEM candidate, department 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 special projects.
88165 –001 IND, instruction mode: Independent/Directed Studies; Rosandich PhD, Ryan G, 1-4 cr

MEDICAL AND MOLECULAR PHYSIOLOGY (Phsl)
308 Smed, 235 University Dr. University of Minnesota Medical School Duluth, Duluth, MN 55812-3011
218-726-8512
http://www.med.umn.edu/phsl/about/home.html

Medical School - Duluth Campus

Phsl 8777 Thesis Credits: Master’s
(GA; max crs 50; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only))
(No description)
88019 –001 IND, 05/19/14-06/06/14, instruction mode: Classroom; Schwartz, Wendy, 1-18 cr

Phsl 8888 Thesis Credits: Doctoral
(GA; max crs 100; 10 repeats allowed; prereq Max 18 cr per semester or summer; 24 cr required)
88020 –001 IND, 05/19/14-06/06/14, instruction mode: Classroom; Schwartz, Wendy, 1-24 cr
Summer Session

MEDICINE (Med)
124 Smed. 235 University Dr. University of Minnesota Medical School Duluth, Duluth, MN 55812-3011
218-726-8555
http://www.med.umn.edu/med/

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 a human Discliose based topics.
88333 –001 DIS, 06/09/14-08/01/14, instruction mode: Classroom; Wittmers Jr, Lorentz E, 0 cr

Med 205 On Campus Native Americans Into Medicine
(S-N; 5 repeats allowed; prereq Department consent)
Utilizing a system based approach students will learn about the development, structure, normal and abnormal function and evaluation of a given human organ system. Students will participate in lectures, group discussion, ep- portfolio interactions, and individual research paper/poster presentations on the chosen organ system. Students will expand knowledge in the area of assessment through physical diagnosis and evaluation of the given organ sys- tem. Students will learn skills such as basic life support.
88334 –001 LEC, instruction mode: Classroom; Wittmers Jr, Lorentz E, 0 cr

Med 205 Distance Native Americans Into Medicine
(S-N; 5 repeats allowed; prereq Department consent)
Utilizing a system based approach students will learn about the development, structure, normal and abnormal function and evaluation of a given human organ system. Students will participate in lectures, group discussion, ep- portfolio interactions, and individual research paper/poster presentations on the chosen organ system. Students will expand knowledge in the area of assessment through physical diagnosis and evaluation of the given organ sys- tem. Students will learn skills such as basic life support.
88335 –001 LEC, instruction mode: Classroom; Wittmers Jr, Lorentz E, 0 cr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Med 601</td>
<td>Ethnic and Folk Music of the World</td>
<td>Cooper, James M; O'Hara, Thomas</td>
<td>3 cr</td>
<td>(NGA; max 6 cr per semester or summer; 10 cr required)</td>
</tr>
<tr>
<td>Med 602</td>
<td>Basic Science II</td>
<td>Marcus A; Pierce, John Charles; Campbell, Jennifer Lee; Inselman, Rachel Laura; Wold, Stanley R; Pierce, Alice O.,</td>
<td>2 cr</td>
<td>(NGA; max 10 cr per semester or summer; 4 repeats allowed; prereq Music major; no credit for non-Music majors)</td>
</tr>
<tr>
<td>Mu 1001</td>
<td>Introduction to Music</td>
<td>Buckstead, Brian Lee</td>
<td>1 cr</td>
<td>(meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)</td>
</tr>
<tr>
<td>Mu 1004</td>
<td>Music in Film</td>
<td>Christensen MD, Raymond G,</td>
<td>4 cr</td>
<td>(A-F; $315.00 course fee in addition to tuition; max crs 18; 9 repeats allowed; prereq Music major)</td>
</tr>
<tr>
<td>Mu 1311</td>
<td>Voice-Major</td>
<td>Trachte, George J</td>
<td>1-10 cr</td>
<td>(A-F only; max crs 10; prereq Upper div sci major, instructor consent)</td>
</tr>
<tr>
<td>Mu 1312</td>
<td>Voice-Non-Major</td>
<td>Christensen MD, Raymond G,</td>
<td>1-24 cr</td>
<td>(meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)</td>
</tr>
<tr>
<td>Mu 1350</td>
<td>Violin - Non-Major</td>
<td>Trachte, George J</td>
<td>1-10 cr</td>
<td>(A-F only; max crs 10; prereq Upper div sci major, instructor consent)</td>
</tr>
<tr>
<td>Mu 1352</td>
<td>Violin - Major</td>
<td>Trachte, George J</td>
<td>1-10 cr</td>
<td>(A-F only; max crs 10; prereq Upper div sci major, instructor consent)</td>
</tr>
<tr>
<td>Mu 3333</td>
<td>FTE's Master's</td>
<td>Ruben, Justin Henry</td>
<td>1 cr</td>
<td>(A-F; $315.00 course fee in addition to tuition; max crs 18; 9 repeats allowed; prereq Music major)</td>
</tr>
</tbody>
</table>

**MUSIC (Mu)**

- **Mu 1001** Introduction to Music (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)
- **Mu 1004** Music in Film (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)
- **Mu 1311** Voice-Major (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)
- **Mu 1312** Voice-Non-Major (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)
- **Mu 1350** Violin - Non-Major (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)
- **Mu 1352** Violin - Major (prereq Not for music majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT9; meets LEIP req of LEIP CAT09)

**Medical School - Duluth Campus**

- **Phel 8666** Doctoral Pro-Thesis Credits (NGA; max crs 12; prereq Max 6 cr per semester or summer; 10 cr required) |
- **Phel 8888** Thesis Credits: Doctoral (NGA; max crs 100; 10 repeats allowed; prereq Max 18 cr per semester or summer; 24 cr required) |
This information is accurate as of: 03/03/2014
Summer 2014

POLITICAL SCIENCE (Pol)

304 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-7534 http://www.d.umn.edu/pol/

College of Liberal Arts

May Session

Pol 3025 Popular Culture and Politics

(A-F only; prereq 45 or 60 cr or soc sci or instructor consent)
Evolution of the presentation of American political institu-
tions, officials, and policy issues in mass entertainment. How
accurate are the portrayals? How influential is Holly-
wood’s view of American government? How do Americans
know what they think they know about politics?

Pol 3097 Government Internship

(S-N only; max crs 12; 12 repeats allowed; prereq 60 cr; 4 cr
max from 3097, 3197, 3297 may be applied toward
advanced Pol major requirements; instructor consent)
Scheduled work assignments with direct supervision in
performance of governmental functions; full- or part-time
employment.

Pol 3197 Nongovernmental Internship

(S-N only; max crs 12; 12 repeats allowed; prereq 60 cr; 4 cr
max from 3097, 3197, 3297 may be applied toward
advanced Pol major requirements; instructor consent)
Supervised, scheduled work assignments in performance of
political functions in nongovernmental organizations;
full- or part-time employment. Not all outside work is
eligible; see department head for requirements.

PSYCHOLOGY (Psy)

320 Bohl, 1207 Ortean Court, College of Education and Human
Service Professionals, Duluth, MN 55812-3010
218-726-7117 http://www.d.umn.edu/psy/

This information is accurate as of: 03/03/2014
Psy 3223 Gender in Society
(A-F only; meets DLE req of Global Perspectives; meets LE CD req of LECD CAT06)

Psy 3061 Physiological Psychology
(A-F only; prereq 1003 or instr consent)

Psy 3211 Group Dynamics
(A-F only; prereq 1003 or instr consent)

Psy 3371 Child and Adolescent Psychology
(A-F only; prereq 1003 or instructor consent)

Psy 3520 Introduction to Industrial/Organizational Psychology
(A-F only; prereq 1003 or instructor consent)

Psy 3015 Topics in Human Sexuality
(A-F only; Credit will be awarded if credit has been received for: PSY 3216; prereq 1003 or instr consent)

Psy 3231 Psychology of Drug Use
(A-F only; prereq 1003 or instructor consent)

Psy 3211 Abnormal Psychology
(A-F only; prereq 1003 or instructor consent)
Introduction to the field of industrial/organizational psychology. Major content areas within the field will be covered, including selection, training, performance evaluation, motivation, work stress, organizational culture, teams, and leadership.

88338 -005LEC, 05/19-08/01/14, instruction mode: Correspondence, Limited to 30; Luong, Alexandre, 4 cr

Online-Individualized Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate? and follow the directions.

Psy 3524 Basic Helping Skills (A-F only)

Rationale for and practice of basic skills needed for effective professional helping, using historical, philosophical, biological and experimental perspectives. Course topics include attention, perception, knowledge representation, memory, language, thinking, reasoning, and decision-making.

88531 -005LEC, 05/19-08/01/14, instruction mode: Correspondence, Limited to 30; Stowiak PhD, Julie M, 3 cr

Psy 3525 Behavior Analysis in the Workplace (A-F only; prereq 1003)

Introduction to performance management in the context of understanding workplace behavior using a non-traditional approach to management based on principles derived from the field of behavior analysis. Major content areas within the field will be covered, including measurement of performance and results of performance, analysis, of performance data and environments in which performance occurs, and the design, implementation, and evaluation of practical solutions to produce positive, effective workplace performance change.

89206 -005LEC, 05/19-08/01/14, instruction mode: Correspondence, Limited to 30; Stowiak PhD, Julie M, 3 cr

Psy 3621 Cognition (A-F only; prereq 1003 or instructor consent)

An overview of cognitive processes, using historical, philosophical, and experimental perspectives. Course topics include attention, perception, knowledge representation, memory, language, thinking, reasoning, and decision-making.

Psy 3707 Organizational Psychology (A-F only; prereq 1003)

Overview of organizational psychology within industrial/organizational psychology. Leadership, job satisfaction, motivation theories, goal setting, organizational behavior, organizational development, and industrial relations.

Psy 4500 Health Psychology (A-F only; prereq 1003, min 60 or instructor consent)

Concepts, issues, and methods of health psychology; health maintenance and illness prevention integrating biological, psychological, and social factors; utilization of health psychological assessments; and interdisciplinary aspects of health psychology.

88535 -005LEC, 05/19-08/01/14, instruction mode: Correspondence, Limited to 30; Lalacce, Rick A, 3 cr

Online-Individualized Instruction - Students must be registered and begin the course at the start of the semester, and complete all requirements by the end of semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate? and follow the directions.

RECREATION (Rec)

110 SPhc, 1216 Ordean Court, College of Education and Human Service Professions, Duluth, MN 55812-3011

218-726-7120

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

College of Education & Human Service Professions

May Session

SW 5095 Special Topics: (Various Titles to be Assigned) (max crs 12; 12 repeats allowed)

Seminar, 4 cr

Soc 2010 African American Families (A-F only; prereq 8101 or instructor consent)

Students will learn about African American family strengths, values and norms; and about the social history and current status of African Americans in the child welfare system. They will also explore best practice in providing child welfare services to African American families.

88812 -001LEC, 09:00am-02:00pm S, Bohll 112, 06/07-14/06-07/14, 09:00am-02:00pm S, Bohll 112, 06/07-14/06-07/14, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112, 07/14-16/07-14/07, 09:00am-02:00pm S, Bohll 112. This will be a hybrid course and specific information regarding face-to-face course time and computer time will be discussed in the first class meeting.

This information is accurate as of: 03/03/2014
SPECIAL EDUCATION (SpEd)

SpEd 4250 Foundations of Autism Spectrum Disorders
(A-F only; Credit will not be granted if credit has been received for: SPED 5250; preq No Grad cr)
Includes history, definitions, assessment, characteristics, legal aspects, varying perspectives, and etiology of the Autism Spectrum Disorders.
SpEd 4430 Foundations in Special Education
(A-F only; $43.75 course fee in addition to tuition; Credit will not be granted if credit has been received for: SPED 5433; preq Min 45 cr, postbac grad or spmed minor, no grad credit)
SpEd 4433, it will require one or more of the following: paper, presentation, and/or project related to the special education process. Techniques for working with parents, professionals, paraprofessionals, and community agencies when planning and implementing Individualized Education Plans. Because this course is taught concurrently with SpEd 4435, it will require one or more of the following: paper, presentation, and/or project related to the special education process. Techniques for working with parents, professionals, paraprofessionals, and community agencies when planning and implementing Individualized Education Plans.

SOCIology (Soc)

Soc 1101 Introduction to Sociology
(A-F only; meets DLE req of Cultural Diversity in the US; meets DLE req of Social Sciences; meets LE req of LE CAT6; meets LEO req of LEO CAT6)
Introduction to sociological concepts and their application.

Swenson College of Science & Engineering

Summer 2014

STATISTICS (Stat)

140 SCC, 1117 University Drive, Swenson College of Science & Engineering, Duluth, MN 55812-3000
218-726-8747
http://www.d.umn.edu/math

Swenson College of Science & Engineering

Summer Session

Stat 1411 Introduction to Statistics
(A-F only; prereq Math ACT 21 or higher or a grade of at least C in SPSP 103 or department approval; meets DLE req of Logic & Quantitative Reasoning; meets LE req of LE CAT2)
Statistical ideas involved in gathering, describing, and analyzing observational and experimental data. Experimental design, descriptive statistics, correlation and regression, probabilistic models, sampling, and statistical inference.

Soc 4999 Honors Project Sociology
(A-F only; max crs 90; approval by dept honors program director; no grad credit; maximum 8 credits allowed between SOC 4999 and CRIM 4391; preq of Honors)
Soc 4999 Honors Project Sociology
(A-F only; max crs 90; approval by dept honors program director; no grad credit; maximum 8 credits allowed between SOC 4999 and CRIM 4391; preq of Honors)
Soc 4999 Honors Project Sociology
(A-F only; max crs 90; approval by dept honors program director; no grad credit; maximum 8 credits allowed between SOC 4999 and CRIM 4391; preq of Honors)
Soc 4999 Honors Project Sociology
(A-F only; max crs 90; approval by dept honors program director; no grad credit; maximum 8 credits allowed between SOC 4999 and CRIM 4391; preq of Honors)

Soc 4999 Independent Study in Sociology
(A-F only; max crs 6; 6 repeats allowed; prereq instructor consent; maximum 6 credits allowed between SOC 4991 and CRIM 4391)
Directed reading, research, or involvement in social action related to the student’s major, minor, or cror major. 4857, WRIT 31xx; no grad credit)
Supervised internship of at least 300 hours in a setting related to academic preparation and career interests.

Soc 4534 Parent and Professional Collaboration and Collaboration
(Credit will not be granted if credit has been received for: SPED 4435, it will require one or more of the following: paper, presentation, and/or project related to the special education process. Techniques for working with parents, professionals, paraprofessionals, and community agencies when planning and implementing Individualized Education Plans. Because this course is taught concurrently with SpEd 4435, it will require one or more of the following: paper, presentation, and/or project related to the special education process. Techniques for working with parents, professionals, paraprofessionals, and community agencies when planning and implementing Individualized Education Plans.

Shawn Morris

This information is accurate as of: 03/03/2014

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Coursework for the University of Minnesota – Class Schedule for Duluth Campus

**Summer 2014**

**URS 3991 Independent Study in Urban and Regional Studies**
- (max crs 6; prereq instructor consent)
- For students interested in doing advanced work in urban and regional studies.

**WS 3981 Independent Study**
- (only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor 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.

**WRS 8444 FTE: Doctoral**
- (NGA; prereq Doctoral student, adviser and DGS consent)
- Directed readings, research, and/or projects on topics of interest to the student not covered in regular course offerings. Students contract with an individual faculty member.

**WRS 8888 Thesis Credits: Doctoral**
- (max crs 12; prereq Max 6 cr per semester or summer; doctoral student who has not passed prelim oral; no required consent for the first two registrations up to 12 cr; departmental consent for the third and fourth registrations up to an additional 12 cr or 24 cr total; for doctoral students admitted summer 2007 and beyond; doctoral students admitted prior to summer 2007 may register up to 4 times totaling 60 cr)

**WRS 8888 Thesis Credits: Master's**
- (max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor consent)
- Directed readings, research, and/or projects on topics of interest to the student not covered in regular course offerings. Students contract with an individual faculty member.

**Writing Studies (WRS)**
- (S-N only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor 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 experience.

**WURS 3097 Internship**
- (S-N only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor consent)
- Students contract with an individual faculty member and with a site supervisor, set goals, fulfill requirements for credit earned, and submit written and oral evaluations of experience.

**URS 3991 Independent Study in Urban and Regional Studies**
- (max crs 6; prereq instructor consent)
- For students interested in doing advanced work in urban and regional studies.

**WS 3981 Independent Study**
- (only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor 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 contract with an individual faculty member and with a site supervisor, set goals, fulfill requirements for credit earned, and submit written and oral evaluations of experience.

**WRS 8888 Thesis Credits: Doctoral**
- (NGA; max crs 10; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only))
- Directed readings, research, and/or projects on topics of interest to the student not covered in regular course offerings. Students contract with an individual faculty member.

**WRS 8888 Thesis Credits: Master's**
- (NGA; max crs 10; 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr total required (Plan A only))
- Directed readings, research, and/or projects on topics of interest to the student not covered in regular course offerings. Students contract with an individual faculty member.

**Writing Studies (WRS)**
- (S-N only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor 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 experience.

**WURS 3097 Internship**
- (S-N only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor consent)
- Students contract with an individual faculty member and with a site supervisor, set goals, fulfill requirements for credit earned, and submit written and oral evaluations of experience.

**Writing Studies (WRS)**
- (S-N only max crs 9; 3 repeats allowed; prereq 1000, 2101, 3100, 15 cr or WS-related courses, WS major or minor, 53 cr, instructor 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 experience.
University of Minnesota – Class Schedule for Duluth Campus

Summer 2014

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 3140 Advanced Writing: Human Services
(A-F only; prereq 1120 or equivalent, min 60 cr; credit will not be granted if already received for Comp 3140)
Study and practice of writing tasks in education as well as other fields related to the human service professions. Designed to prepare students to master their use of Edited Standard Written English while producing professional documents, including a major research project with an oral presentation. Assignments focus on audience, purpose, and the process of writing as they relate to the workplace.

Writ 3150 Advanced Writing: Science
(A-F only; prereq 1120 or equivalent, min 60 cr; credit will not be granted if already received for COMP 3150)
Study and practice of writing tasks in science, 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 4187 Internship in Writing
(S-N; Credit will not be granted if credit has been received for: WRIT 5197; max crs 6; prereq instructor consent, no grad credit)
Practical writing experience with a media organization, publisher, business, or government agency.

Writ 4591 Independent Study
(A-F only; Credit will not be granted if credit has been received for: WRIT 5591; max crs 6; 6 repeats allowed; prereq instructor consent, no grad credit)
Students choose projects with their instructor.

Writ 5197 Internship in Writing
(S-N; Credit will not be granted if credit has been received for: WRIT 4187; max crs; 3 repeats allowed; prereq instructor consent, Coll Grad or Grad student)
Practical writing experience with a media organization, publisher, business, or government agency.

Writ 5591 Independent Study
(Credit will not be granted if credit has been received for: WRIT 4591; max crs 6; 6 repeats allowed; prereq College grad or grad student, credit will not be granted if already received for Comp 5991, max 3 cr may be applied to Grad prog, instructor consent)
Students choose projects with their instructor.

Writ 8994 Directed Research in Writing Studies
(A-F only; max crs 3; 3 repeats allowed; prereq Credit will not be granted if credit has been received for Comp 8994; B902; instructor 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: 03/03/2014