HOW TO USE THIS SCHEDULE

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

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

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

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

When courses that must be taken in sequence are prerequisites, only the last course of the sequence is listed. When no departmental designation precedes the course number listed as a prerequisite (e.g., “prereq 3221”), that course is in the same department as the course being offered. 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 2001  Principles of Financial Accounting
(A-F; prereq Minimum 15 credits or college consent)
87471 --001 LEC, 11:00am-12:55pm MTWThF, LSB 125, 05/18-06/05/15, instruction mode: Classroom, Limited to: 37; Combined with: 87475 ACCT 2001; Erickson, Loren L, 3 cr (Non-LSBE Students)
87474 --001 LEC, 9:00am-10:55am MTWThF, LSB 125, 05/18-06/05/15, instruction mode: Classroom, Limited to: 37; Combined with: 87477 ACCT 2001; Erickson, Loren L, 3 cr (Non-LSBE Students)

Acct 3010 Intermediate Accounting I
(A-F; prereq LSBE candidate or non-LSBE accounting minor or college consent)
87474 --001 LEC, 08:00am-10:55am MTWThF, LSB 229, 05/18-06/05/15, instruction mode: Classroom, Limited to: 37; Combined with: 87477 ACCT 3010; Reichert, Charles J, 3 cr (Non-LSBE Students)
87470 --002 LEC, 08:00am-10:55am MTWThF, LSB 229, 05/18-06/05/15, instruction mode: Classroom, Limited to: 37; Combined with: 87477 ACCT 3010; Reichert, Charles J, 3 cr (Non-LSBE Students)

Acct 3301 Accounting Information Systems
(A-F; prereq LSBE candidate or non-LSBE accounting minor or college consent)
Overview of financial accounting information systems. Focus on system use, internal controls, security issues, and system design and implementation in computerized accounting procedures within the business organization. Develop proficiency in the use of accounting software.
87971 --001 LEC, 11:00am-01:55pm MTWThF, LSB 237, 05/18-06/05/15, instruction mode: Classroom, Limited to: 27; Combined with: 87985 ACCT 3301; Hisao, Daniel C, 3 cr
87985 --002 LEC, 11:00am-01:55pm MTWThF, LSB 237, 05/18-06/05/15, instruction mode: Classroom, Limited to: 37; Combined with: 87987 ACCT 3301; Hisao, Daniel C, 3 cr

Acct 4510 Fund and Not-For-Profit Accounting
(A-F; prereq LSBE candidate or college consent)
Accounting concepts and processes applied to government, hospital, education, charity, and other not-for-profit entities.
87787 --001 LEC, 08:00am-10:55am MTWThF, LSB 125, 05/18-06/05/15, instruction mode: Classroom, Limited to: 40; Brannan PhD, Rodger L, 3 cr (Summer Session)

Acct 2002 Principles of Managerial Accounting
(A-F; prereq 2001, LSBE student or college consent)
Information accumulation, analysis, and use for managerial decisions. Cost-volume-profit relationships; short- and long-term decisions; standards and budgets; segment and managerial performance evaluation.
87122 --001 LEC, 11:00am-01:30pm MTWTh, LSB 125, 06/06-08/07/15, instruction mode: Classroom, Limited to: 40; Salmela, Karen Ellen, 3 cr
87729 --002 LEC, 06/08-15/07/15, instruction mode: Cor- respondence, Limited to: 40; Jones, Janet R, 3 cr

Acct 3401 Individual Income Taxation
(A-F; prereq Creer Accounting or if granted if already received for ACCT 3152 or 4152; LSBE candidate or approved non-LSBE accounting minor or college consent)
Provides an understanding of how taxes impact personal financial decisions. Takes tax planning minimization perspective and provides 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.
87468 --001 LEC, 06/06-15/07/15, instruction mode: Correspondence, Limited to: 37; Combined with: 87301 ACCT 3401; Skalsberg, Randy, 3 cr
87301 --002 LEC, instruction mode: Correspondence, Limited to: 3; Combined with: 87468 ACCT 3401; Skalsberg, Randy, 3 cr (Non-LSBE Acct minors)

Acct 3796 Internship in Accounting
(S-C; max crs 6; 3 repeats allowed; prereq 3101, depart- ment consent; repeatable for a max of 6 credits; 3 repeat allowed; max 2 credits may be applied to Active Learning Experience.) Participation in an approved program with professional ac- counting firms, businesses, government agencies, or non- profit organizations. Requires minimum 200 hours work experience, 40 hours of written reports, and evaluation studies. Students can take an additional credit for each additional 100 hours of work, up to a maximum of 6 credits. 3 repeats allowed, max 2 credits may be applied to Active Learning Experience.
87211 --001 FWK, 06/08-15/07/15, instruction mode: Independent/Directed Studies; Skalsberg, Randy, 2 cr

Acct 3991 Independent Study
(A-F; max crs 3; 3 repeats allowed; prereq BAC candidate with 80 cr, department consent; credit not available as accounting elective; may take ACCT 3919 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.
87123 --001 IND, 06/06-15/07/15, instruction mode: Independent/Directed Studies; Skalsberg, Randy, 1 cr

AMERICAN INDIAN STUDIES (AmIn)

AmIn 3006 Introduction to American Indian Literature
(A-F; prereq Credit with a grade of C or better in 1010; meets DLE req of Cultural Literacy) Introduces American Indian literature from a variety of tribal perspectives as well as a wide range of genres including oratory, poetry, short stories, and novels. The major tropes and significant theories of American Indian literature will be covered.
87508 --001 LEC, 05/18-15/06/15, instruction mode: Correspondence, Limited to: 25; Bauerkepper, Joseph Karl, 3 cr

AmIn 3393 Projects in American Indian Studies
(A-F; max crs 10; 10 repeats allowed; prereq 1020, 1120, minimum 30 credits, instructor consent; maximum 10 credits between AMIN 3300 and 3393) Directed reading, research, or involvement in social action project or with signi- ficant theories of American Indian literature will be covered.
87671 --001 IND, 06/06-15/07/15, instruction mode: Independent/Directed Studies, Limited to 15, 1-5 cr

AmIn 3420 American Indians in Sports
(A-F only; prereq 30 credits; credit will not be granted if already received for 3100; meets DLE req of Cultural Diversity in the US) Introduces American Indian and Native sports culture from a variety of tribal perspectives as well as a wide range of genres including oratory, poetry, short stories, and novels. The major tropes and significant theories of American Indian literature will be covered.
87508 --001 LEC, 05/18-15/06/15, instruction mode: Correspondence, Limited to: 25; Bauerkepper, Joseph Karl, 3 cr

AmIn 4120 Introduction to American Indian Languages
(A-F; max crs 12; 3 repeats allowed; prerequisite major in American Indian Studies) Supervised lab experience in American Indian agency or project or with significant Indian clientele. Advance, con- current, and honors tracks. 87672 --001 FWK, instruction mode: Independent/Directed Studies, Limited to 10, 4-8 cr

Amin 4990 Directed Research
(A-F; max crs 12; 3 repeats 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 research of an advanced nature in American Indian Studies.
87673 --001 IND, instruction mode: Independent/Directed Studies, Limited to 10, 1-6 cr

AMERICAN SIGN LANGUAGE (ASL)

ASL 2928 American Sign Language Skill Building Workshop
(A-F only; prereq 2002 or instructor consent, no grad credit) Instruction and intensive practice in various subjects related to American Sign Language.
87519 --030 LEC, 09:30am-12:30pm MTWThF, Monn H51, 05/18-15/06/15, instruction mode: Classroom, Limited to 30; Diener EdD, Nancy McFarlin, 3 cr

ANTHROPOLOGY (Anth)

Anth 2469 Native American Anthropology
(S-N only; max crs 6; prereq instructor consent, no grad credit) Supervised experience in an anthropological work related setting; social service, immigration services, school or other, approved by instructor. Setting learning objectives, techniques for measuring progress and report writing will be taught.
87255 --002 FWK, 05/18-15/06/15, instruction mode: Independent/Directed Studies; Jones, Jennifer Elaine, 2 cr

Anth 3888 Anthropology of Food
(A-F; prereq minimum 30 credits; meets DLE req of Sustainability) Advanced survey and comparative study of the relation- ship between food and culture in the past and present. Topics include the domestication and evolution of plants and animals, biological and cultural aspects of the produc- tion, distribution, preparation, and consumption of food, and an analysis of the social and cultural significance of food-including food preferences and taboos, food and reli- gion, food and identity, 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.
87454 --001 LEC, 05/18-15/06/15, instruction mode: Cor- respondence, Limited to 25; Traits, Tim, 3 cr

Anth 4621 Myth and Sacred Symbols
(A-F only; prereq 1604, min 60 cr) Interpretation of myths and sacred symbols found in beliefs and rituals of traditional cultures.
87734 --001 LEC, 06/06-15/07/15, instruction mode: Cor- respondence, Limited to 15; Siring PhD, David, 3 cr
Art 1010  Drawing I
(A-F only; prereq: Art or art education major or pre-GDM BFA or GDM or pre MGD BBA or MGD BBA or art minor or photography minor or art in media minor or instructor consent. Laptop required; digital instruction presented only on the Mac platform.)
Introduction to drawing and the role it plays in the communication, representation, and cultural reference of the visual world. Emphasis on composition, form, space, and perception. Techniques include line, value, and color. Lab experience into two-dimensional form.

Art 1003  Introduction to Design
(A-F only; Credit will not be granted if credit has been received for: ART 1006, ART 1600, ART 1607; pre enr Not for art majors or minors; meets DLE req of Fine Arts; meets LE req of LE CAT) Introductory design course. Introduction to the design shapes public and private experience. From clothes to cars, from websites to street signs, from plates to phones to plazas, design can help or hinder users perform tasks while it helps them construct identity and meaning.

Art 1002  Introduction to Art
(A-F only; Credit will not be granted if credit has been received for: FORS 1000, FORS 1001; pre enr Not for art majors or minors except those in art history; meets DLE req of Fine Arts; meets LE req of LE CAT) Studio course with strong lecture component for those with little or no creative experience in art, introducing various materials, techniques, and concepts. Studio work, lectures, class discussions, viewings, and outside reading.

Art 1600  Introduction to Photography
(A-F only; Credit will not be granted if credit has been received for: ART 1200 or ART 1200M; pre enr Not for art majors or minors or instructor consent) Creation of one or more individual photographic book projects, with emphasis on effective sequencing of images and appropriate supporting text. Portfolio requirements are project-based.

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Art 461  Individual Study in Photography
(A-F only; max crs 9; 3 repeats allowed; prereq 2100, art or art education major or pre-art education major or pre-graphic design major, or art minor or instructor consent; max 9 credits)
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 platform.

Art 4600  Photographs: Digital Portfolio
(A-F only; max crs 3; 3 repeats allowed; prereq 1900, 1607 or 2600, art major or art or photography minor or instructor consent) Intensive digitally-based portfolio development in area of special interest. 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 platform.

Art 4657  Photography: The Photographic Book
(A-F only; max crs 3; 3 repeats allowed; 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 supporting text for the specific body of work. Selected readings in books arts relating to photography. Graduate student book projects are complemented by additional reading.

Art 4691  Individual Study in Photography
(A-F only; max crs 9; 3 repeats allowed; prereq 2100, art or art education major or pre-art education major or pre-graphic design major, or art minor or instructor consent; max 9 credits)
Painting in specialized interest area, using student/ instructor-generated semester goals outline.

Art 3600  Photography: Alternative Processes
(A-F 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 platform.

Art 3100  Painting II
(A-F only; max crs 9; 3 repeats allowed; prereq 2100, art or art education major, pre-art education major or pre-graphic design major, or art minor or instructor consent; max 9 credits)
Painting in specialized interest area, using student/ instructor-generated semester goals outline.

Art 2600  Photography I
(A-F only; Credit will not be granted if credit has been received for: ART 1605, ART 1600, ART 1607; prereq 1013, Art major or Art 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 1101  2-D Digital Design
(A-F only; prereq: Art or art education major or pre-GDM BFA or GDM or pre MGD BBA or MGD BBA or art minor or photography minor or arts in media minor or instructor consent. Laptop required; digital instruction presented only on the Mac platform.)
Two-dimensional studio and graphic design concepts using the computer as a creative tool. Laptop required; digital instruction presented only on the Mac platform.

ART 4600  Photography: Digital Portfolio
(A-F only; max crs 3; 3 repeats allowed; prereq 1900, 1607 or 2600, art major or art or photography minor or instructor consent) Intensive digitally-based portfolio development in area of special interest. 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 platform.

ART 1605  Fundamentals of Photography
(A-F only; Credit will not be granted if credit has been received for: ART 1200 or ART 1200M; pre enr Not for art majors or minors or instructor consent) Creation of one or more individual photographic book projects, with emphasis on effective sequencing of images and appropriate supporting text. Portfolio requirements are project-based.

ART (Art)

ART 3700  Advanced individually supervised projects using both traditional and contemporary photography media and techniques. (A-F only; max crs 10; 10 repeats allowed; prereq 1602 or 1612, instructor consent)
Introduction to methods and material used for water-based screen-printing offers a simple and direct way of creating visual images from hand crafter or digital sources. The instruction of this course allows students to build upon basic concepts in order to develop more complex and personally meaningful work. Projects will include topics addressing social communication, personal motivations, collaborations, and non-traditional uses (i.e., installation or sculptural work). Includes additional information on theoretical, legal, cultural, and historical aspects of screen-printing.

Art 2303 Printmaking I: Screenprinting
(A-F only; Credit will not be granted if credit has been received for: ART 1306; prereq 1009 or 1010, 1011, art or art education major or art minor or instructor consent) Introduction to methods and material used for water-based screen-printing, which offers a simple and direct way of creating visual images from hand crafter or digital sources. The instruction of this course allows students to build upon basic concepts in order to develop more complex and personally meaningful work. Projects will include topics addressing social communication, personal motivations, collaborations, and non-traditional uses (i.e., installation or sculptural work). Includes additional information on theoretical, legal, cultural, and historical aspects of screen-printing.

Art 2300 Ceramics I
(A-F only; prereq 1012, art or art education major or art minor or instructor consent; credit will not be granted if already received for 1400) Advanced handbuilding and surface enhancement, and conceptual support for pottery and/or ceramic sculpture.

Art 4016 Digital Arts: Advanced Projects
(A-F only; max crs 9; 3 repeats allowed; prereq 3017 or 3018 or Instructor consent, no grad credit) Advanced Digital Art Studies: students interested in exploring interdisciplinary or advanced projects using current or emerging technologies. Students develop self-directed focus and original projects. Tracks include: Advanced projects may concentrate on mixed-media print, time-based media, interactive media, installation art, or collaborative art formats. Students hone a body of digital artwork through research experimentation and critique. Laptop required.

Art 4040 Digital Filmmaking: Advanced Projects
(A-F only; max crs 9; 3 repeats allowed; prereq 2040 or 3040 or instructor consent) Advanced digital film projects in narrative, experimental, animation, or documentary formats. Students develop a single ambitious project over the semester, defining their own approach and focus. Develop project pitch, including visual concept, production plans, and storyboards. Hone video production technique and digital video editing skills. Emphasis on collaboration and creative process from pre-production through final craft of short digital film for contemporary audience.

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other studio areas. Graduate students produce a techni- cally and conceptually sophisticated portfolio of drawing, supported by a research paper.

Astronomy (Ast)
371 MWAh, 1023 University Drive, Swenson College of Science & Engineering, Duluth, MN 55812-3009
218-726-8385
http://www.aum.edu/physics

Swenson College of Science & Engineering
Summer Session

Astronomy (Ast)
(A-F only; meets DLE req of Natural Sciences; meets LE req of LE CAT10) Survey of present knowledge of solar system, interstellar space, stars, galaxies, and universe. Historical development of astronomy as a science. Taught in day school and in Individualized Learning Program format. Approved NF 69

Swenson College of Science & Engineering
Summer Session

Behavioral Sciences (BhSc)
265 McFed, 2035 University Drive, University of Minnesota Medical School Duluth, Duluth, MN 55812-3011
218-726-7144
http://www.med.umn.edu/duluth/

Medical School - Duluth Campus
Summer Session

BiSc 5491 Problems in Medical Behavioral Sciences
(A-F only; max crs 6; prereq 64 or upper div or Grad Student, instructor consent; max 6 cr to grad program) Independent study on a tutorial, seminar, or lecture basis. Investigative work, lecture material, and/or appropriate reading and discussions designed according to interest and capabilities of individual student.

BiSc 6562 Social and Behavioral Medicine I
(P: prereq Regis med student) Human psychological development throughout life; normal cognitive, learning, social, and personality develop- ment; problems expressed during various stages of life in the family and other settings. Assessment/treatment described as relevant to practice of family medicine.

BiSc 4944 Graphic Design IV
(A-F only; prereq 3933, no grad credit) Continuation of theory and practice of graphic design. Research-based development of design systems in multiple media.

BiSc 5901 Individual Study in Electronic Arts
(A-F only; max crs 9; 3 repeats allowed; prereq 1014 or 3014, art or art education major or art minor or instructor consent) Individually supervised projects in electronic arts media.

BiSc 5910 Introductory Astronomy
(A-F only; meets DLE req of Natural Sciences; meets LE req of LE CAT10) Survey of present knowledge of solar system, interstellar space, stars, galaxies, and universe. Historical development of astronomy as a science. Taught in day school and in Individualized Learning Program format. Approved NF 69

BiSc 6433 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 4; Combined with: 87915 ART 1405, 87462 ART 2040, 87464 ART 3405, 87465 ART 4400; James, Elizabeth J, 3 cr

BiSc 6434 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 5; Combined with: 87916 ART 4955; Short, David, 3 cr

BiSc 6435 Graphic Design V
(A-F only; prereq 3933, no grad credit) Continuation of theory and practice of graphic design. Advanced projects.

BiSc 6436 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 6; Combined with: 87915 ART 4944; Short, David, 3 cr

BiSc 6437 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 8; Combined with: 87913 ART 1306; Houser, Darren James, 3 cr

BiSc 6438 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 7; Combined with: 87916 ART 4955; Short, David, 3 cr

BiSc 6439 --001 IND, 06/08/15-07/15/15, instruction mode: Classroom, Limited to 10; Pless, Kristen Marie, 3 cr

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

BiSc 7888 --002 IND, instruction mode: Correspondence, 3 cr

BiSc 6564 Social and Behavioral Medicine II
(P: prereq Regis med student) Human psychological development throughout life; normal cognitive, learning, social, and personality develop- ment; problems expressed during various stages of life in the family and other settings. Assessment/treatment described as relevant to practice of family medicine.

BiSc 4943 --001 IND, 05/04/15-06/26/15, instruction mode: Classroom, Limited to 60; Boulger, James G, 4 cr

BiSc 5212 Biology of HIV and AIDS
(A-F only; prereq 1012)
A comprehensive overview of the current AIDS pandemic ranging from molecular to clinical biomedical aspects to societal and psychological aspects. Molecular biology of HIV, the immune system’s response, diagnosis, prevention, treatment, and vaccinations will be included.

Biol 2763 Biology of Women
(S-F only; max crs 2; prereq instructor consent required, biol cell major; 90 cr or 25 cr Biol; max 2 cr may be applied toward Biol major)
Participation in teaching biology lab courses: help set up labs, participate in the teaching of labs, and share in instruction of review labs.
Participation in teaching biology lab courses. Experience includes helping to set up labs, participate in the teaching of labs, and share in the instruction of review labs.

Biol 3994 Undergraduate Research
(S-F only; max crs 6; 6 repeats allowed; prereq A grade of C or better in both 1011 and 1012, 60 cr, department consent required; max 4 cr or may be applied to biol or cell biol major as upper div elective)
Advanced independent work in special fields.

Biol 3996 Internship in Biology
(S-F only; max crs 2; prereq A grade of C or better in both 1011 and 1012, department consent required; max 1 cr or may be applied to biol or cell biol major)
Credit given for professional work experience outside an academic department. Requires prior department approval and coordination with faculty sponsor. Credit given for professional work experience outside an academic department.

BUS 2300 Fundamentals of Operations Management
(A-F only; prereq QM 1501 or BUS Admin 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.

BUS 2600 Fundamentals of Financial Management
(A-F only; prereq QM 1501 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 develop an understanding of the concepts and techniques of financial management in the modern business enterprise. Evaluation of the financial information and 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, Capital Limation, the valuation of equity bonds and notes, capital budgeting and the cost of capital. Moreover, the course also serves as a foundation for advanced study in finance.

BUS 3701 Independent Study
(max crs 3; 3 repeats allowed; prereq BSChE cand, department consent)
Directed individual study arranged with instructor and head of department. All a LSBE major/minor requirement.)

CHE 3031 Computational Methods in Chemical Engineering
(A-F only; prereq QM 140 or QM 1501 or instructor permission; no grad credit)
This course is designed for seniors who will be graduating within two semesters. Students learn and implement effective job search strategies and gain knowledge and skills to be successful in their careers. Self-assessment, discovering career passions and goals, integration of research skills, application of job seeking strategies, and demonstration of professionalism are key components.

CHE 3105 Material and Energy Balances
(Prep Chem 1151 or 1161 or 1153 and 1154, Math 1290 or 1290J or 1290L or 1556)
Elementary principles of chemical processes, emphasizing material and energy balances.

CHE 3111 General Chemistry I
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission)

CHE 3791 Independent Study
(max crs 3; 3 repeats allowed; prereq BSChE cand, department consent)
Directed individual study arranged with instructor and head of department. All a LSBE major/minor requirement.)

Chemical Engineering (Che)
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission; no grad credit)
This course is designed for seniors who will be graduating within two semesters. Students learn and implement effective job search strategies and gain knowledge and skills to be successful in their careers. Self-assessment, discovering career passions and goals, integration of research skills, application of job seeking strategies, and demonstration of professionalism are key components.

Chemistry and Biochemistry (ChE)
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission)

Electrical Engineering (ECE)
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission)

Economics, Business and Management (ECON)
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission)

Lanolin School of Business & Economics
219 LSBE, 1318 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011
218-726-7281
http://www.umn.edu/labe

Swenson College of Science & Engineering
May Session

CHE 2111 Material and Energy Balances
(Prep Chem 1151 or 1161 or 1153 and 1154, Math 1290 or 1290J or 1290L or 1556)
Elementary principles of chemical processes, emphasizing material and energy balances.

CHE 3111 General Chemistry I
(Prep QM 101 or QM 1501 or QM 1501J or instructor permission)

CHE 3791 Independent Study
(max crs 3; 3 repeats allowed; prereq BSChE cand, department consent)
Directed individual study arranged with instructor and head of department. All a LSBE major/minor requirement.)
CHEM 3196 Cooperative Education I (A-F only; max crs 4; prerequisites: CHE 2021 or graduate standing; consent) Practical work experience with an employer closely associated with the student's academic area. Arranged by mutual agreement among student, department, and employer. Formal written report of work completed must be submitted to department at end of experience.

CHEM 3211 Chemical Engineering Laboratory I (A-F only; prerequisites: CHE 2021; instructor consent; meets DLE req of Oral Communication & Languages) Introduction to statistical uncertainty analysis and design of experiments illustrating physicochemical, fluid mechanics, and heat and mass transfer principles. Technical report writing and presentation. Standard laboratory practice and safety.

Swenson College of Science & Engineering Summer Session

Chem 1151 General Chemistry I (A-F only; prerequisites: One year high school chem, high school math, science, and a grade of at least C in Math 1005. Credit will not be granted if already received for 1151 and 1161; meets DLE req of Natural Sciences; meets LE req of LE CAT 4)

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 laws, atomic structure, periodic table, chemical bonding, 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 CAT 4.

Chem 1154 General Chemistry Lab I (A-F only; prerequisites: course fee in addition to tuition; prerequisites: Previous or concurrent enrollment in CHEM 1153; credit will not be granted if already received for CHEM 1151 or 1161; meets DLE req of Natural Sciences; meets LE req of LE CAT 4)

Basic laboratory skills while investigating the fundamental principles of chemistry. Covers fundamental concepts of the atom and molecule, stoichiometry, acid-base reactions, redox reactions, reaction kinetics, thermodynamics, stoichiometric principles of analysis, gas laws, and spectrophotometry. This laboratory accompanies CHEM 1153. The combination of CHEM 1153 and CHEM 1154 meets liberal education category 4 requirements.

Chem 2541 Organic Chemistry I (A-F only; prerequisites: course fee in addition to tuition; prerequisites: Previous or concurrent enrollment in CHEM 1152 or 1162 and 1156, must be taken after or concurrently with CHEM 2542; credit will not be granted if already received for 2521, CHE 3231, ENGR 2010) Structure and bonding, stereochemistry, functional group reactions.

Chem 2542 Organic Chemistry II (A-F only; prerequisites: 2521 or 2541; credit will not be granted if already received for 2542) Functional group reactions, bioorganic chemistry.

Chemistry (Chem) Courses - Summer 2015

University of Minnesota – Class Schedule for Duluth Campus - Summer 2015

This information is accurate as of: 03/02/2015
Survey of biochemistry, emphasizing enzyme catalysis, cellular respiration, and metabolic processes.
78216 – 001 LEC, 09:00am-11:10am MWF, SSB 115, 05/18-05/27/03/15, instruction mode: Classroom, Limited to: 40; Johnson, Joseph L., 3 cr

Chem 3324 Biochemistry Laboratory
(A F only; $80.00 course fee in addition to tuition; prereq 2522 or 2523 or 2524; previous or concurrent registration in 3323)
Identification and analysis of biological molecules with emphasis on the macro-molecules, polysaccharides, proteins, and nucleic acids (RNA, DNA).
78217 – 001 LAB, 09:00am-11:00am TH, SSB 244, 05/18-05/27/05/15, instruction mode: Classroom, Limited to: 15; Johnson, Joseph L., 1 cr

Chem 9994 Directed Research in Chemistry
(max crs 9; candidate, instructor consent; prereq Min 90 cr or grad in the sciences or engineering or instructor consent)
Directed laboratory or theoretical research in the chemical sciences.
87838 – 001 IND, 05/04-05/14/04/15, instruction mode: Independent/Directed Studies, 1-3 cr

Chem 9777 Thesis Credits: Master’s
(NGA; max crs 24; 12 repeats allowed; prereq graduate student; max 12 cr per semester or summer, 10 cr total required (Plan A only))
Master’s thesis credits.
87590 – 001 IND, instruction mode: Independent/Directed Studies, -1-2 cr
87591 – 002 IND, instruction mode: Independent/Directed Studies, 1-2 cr

COACHING (CC)
110 SpHC, 1216 Oordt College, College of Education and Human Service Professions, Duluth, MN 55812-3101
82176-7120 http://www.d.umn.edu/hs/perp

College of Education & Human Service Professions
Summer Session

CC 3997 Coaching Practicum
(S-N; $43.75 course fee in addition to tuition; prereq Coaching minor and instructor consent; Supervised coaching in a school or agency setting. Coaching practicum must be arranged with the instructor before registration.)

CLA 1199 Applied Leadership Practicum
(S-N; max crs 3; 3 repeats allowed; prereq instructor consent; Course for students who are RockStars at Bulldog Welcome Week. For information on being a RockStar contact the UMD Office of Student Life.)

COMMUNICATION (Comm)
459 ABHP, 1121 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
110 SpHC, 1216 Ordean Court, College of Education and Human Service Professions, Duluth, MN 55812-3011
82176-7120 http://www.d.umn.edu/clb/

College of Liberal Arts (CLA)
Summer Session
CLA 1199 Applied Leadership Practicum
(S-N; max crs 3; 3 repeats allowed; prereq instructor consent; Course for students who are RockStars at Bulldog Welcome Week. For information on being a RockStar contact the UMD Office of Student Life.)

COMMUNICATION (Comm)
459 ABHP, 1121 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
82176-7120 http://www.d.umn.edu/comm/

College of Liberal Arts
May Session
Comm 1112 Public Speaking
(A-F; credit will not be granted if credit has been received for: COMM 1511; meets DLE req of Oral Communication) Application of the theoretical bases of rhetoric to the public speaking situation.

78094 – 001 LEC, 09:00am-12:30pm MTWTh, ABHP 425, 05/18-05/27/05/15, instruction mode: Classroom, Limited to: 25; Nelson, Elizabeth Jean, 3 cr

Comm 1211 Foundations of Mass Communication
(A-F only; meets DLE req of Social Sciences; meets LE req of LE CAT3) Theories, research, regulation, and ethical concerns surrounding contemporary mass media. Identifies U.S. media's role within the international marketplace. Survey of contemporary media content, industry structures, technology, and delivery systems.

87166 – 001 IND, 05/18-05/27/05/15, instruction mode: Independent/Directed Studies, Limited to: 3, 1-3 cr

Comm 3997 Coaching Practicum
(S-N; max crs 3; 3 repeats allowed; prereq instructor consent; Supervised coaching in a school or agency setting. Coaching practicum must be arranged with the instructor before registration.)

87166 – 001 IND, 05/18-05/27/05/15, instruction mode: Independent/Directed Studies, Limited to: 3, 1-3 cr

Comm 5000 Senior Seminar
(A-F only; max crs 6; prereq 1000, 1112 or 1115, 2025, 2030 with a C or better; Min 90 cr, Comm major, instructor consent) Advanced study and individual research on a selected topic or theme in communication; senior seminar course for communication majors.

87524 – 001 LEC, 01:00pm-04:30pm MTWTh, ABHP 425,
COMMUNICATION SCIENCES AND DISORDERS (CSD)
182 CHPk, 31 West College St, College of Education and Human Service Professions, Duluth, MN 55812-1106
218-726-7974
http://www.umo.edu/csd
College of Education & Human Service Professions

CSD 3130 Language Development and Disorders
(A/F; prereq Pre-IESE major or pre-UECH, or instructor consent)
87387 –030 LEC, 09:30am-10:25am MTWTh, ChPk 124, 05/18-05/21-05/24, 08:00am-10:25am MTWTh, ChPk 124, 15/05/21-05/24, 08:00am-11:15am MTWTh, ChPk 124, 15/05/21-05/25/15, 08:00am-11:15am MTWTh, ChPk 124
This course is for non-CSD majors.

CSD 5230 Advanced Applications in Communication Modalities
(prelim CSD grad or instructor consent)
Advanced seminar and clinical practicum of augmentative and alternative communication (AAC) systems, assistive technologies and communication modalities. The decision-making process for identifying AAC candidates, selecting appropriate communication modalities and developing effective communication programs and strategies involving visual communication modalities.
87027 –030 LEC, 08:00am-10:25am MTWTh, ChPk 122, 05/18-05/20-05/21, 08:00am-04:00pm Th, ChPk 122, 05/21-05/23-05/25, 08:00am-11:15am MTWTh, ChPk 122, 05/16-05/20-05/21, 08:00am-11:15am MTWTh, ChPk 122
This course is taught on line.

CSD 2230 Introduction to Human Communication Disorders
(A/F; meets DLE req of Cultural Diversity in the US; meets DLE req of Social Sciences; meets LE req of LEIP CAT06)
Study and practice of International Phonetic Alphabet. English and non-English speaking students will attend separately and in connected speech. Variations in speech production as related to regional and/or class distinctions.
87778 –001 LEC, 06/08-15/07/03-15/08, instruction mode: Classroom, Limited to 30; Mitsu, Mark Isamu, S
Correspondence, Limited to 30; Hyppa Martin, Jolene R, 2 cr
This course is taught on line.

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. This course will provide students with the opportunity to observe the assessment and treatment of individuals with communication disorders that encompass all ages and across the big nine categories of communication disorders.
87776 –001 DIS, instruction mode: Correspondence, Limited to 30; Bronson, Kent R, 1 cr
This course is taught on line.

CSD 4097 Introduction to Clinical Practicum in Communication Disorders
(A/F; $43.75 course fee in addition to tuition; prereq CSD candidate, C grade or better in 3241, 25 hours clinical observation)
Clinical practicum with speech, language, and/or hearing impaired persons in an on-campus clinic under supervision of an ASHA-certified speech-language pathologist.
1 cr seminar per wk
87770 –001 FWK, 07:00am-07:30am M, ChPk 124, 05/18-05/20-05/24, 07:00am-07:30am M, ChPk 124, 05/16-05/19-05/22, 12:00pm-12:30pm F, ChPk 124,
06/26-06/26/15, 07:00am-11:00am; Course is Arranged.
This course is taught online from July 20-24, 2015.

CSD 5205 Pediatric Dysphagia
(prelim CSD grad or instructor consent)
Anatomy and physiology of normal pediatric swallowing; study etiology, assessment, diagnosis, and management of pediatric swallowing and feeding disorders.
87775 –001 LEC, 05/04-05/24/15, 08:00am-11:00am W, ChPk 122, 06/17-06/19-06/21, 08:00am-10:30am Th, ChPk 122, 06/18-06/20/15, 08:00am-10:25am MTWTh, ChPk 122, 06/22-05/07/15/15/08-00am-10:25am MTWTh, ChPk 122
Correspondence, Limited to 16; 1 cr
Course is Arranged.
This course is taught online from July 20-24, 2015.

CSD 5260 Seminars in Orofacial Disorders
(prelim CSD 3013)
This course will focus on the origin and potential effects of craniofacial disorders in an individual’s feeding, communication, and psychosocial development. Surgical procedures aimed at repairing craniofacial disorders and at improving velopharyngeal function will be discussed. The role of the speech language pathologist on the interdisciplinary team that cares for the individual with craniofacial disorders will be reviewed. 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 and care for the individual with craniofacial disorders will also be described.
87451 –001 LEC, 09:30am-12:15pm MTWTh, ChPk 122, 07/13-07/16/24/15, 08:00am-11:00am MTWTh, ChPk 122, 07/13-07/16/24/15, 08:00am-11:00am MTWTh, ChPk 122, 07/13-07/16/24/15, 08:00am-11:00am MTWTh, ChPk 122
Correspondence, Limited to 34; Collins, Dana Rose, 2 cr
Course will be taught special term, July 13 - 2015 7:00 am - 7:50 am; and June 26, 2015 12:00 pm-12:50 pm. All other practicums are arranged.

CSD 8232 Mgmt of Communication Disorders in Persons with Tracheostomy, Ventilator Dependency, & Laryngectomy
(A/F; prereq CSD grad student or instructor consent)
Advanced study of the effects of tracheostomy tubes, ventilators and laryngectomies on the production of speech; diagnostic and therapeutic procedures used in working with individuals with trach vents, or laryngectomies.
87781 –001 LEC, 08:00am-10:45am MTWTh, ChPk 122, 06/08-06/15-discrete instruction mode: Classroom, Limited to 16; Collins, Dana Rose, 1 cr
Final Exam 6/15/2015.

CSD 8997 Graduate Practicum in Communication Disorders
This course is taught online from July 20-24, 2015.
CRIM 3358 Sociology of Gangs
(A-F only; max cs 8; 6 repeats allowed; prereq Grad student or instructor consent) Directed study of special interest topics not available in the standard curriculum. Must be arranged with the instructor before registration. May include readings, research, or special projects.

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

CRIM 8900 Directed Readings
(A-F only; max cs 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.

CRIM 3338 Sociology of Gangs
(A-F only; prereq 30 credits or instructor consent; credit will not be granted if already received for SOC 3338) Street and prison gangs in America at the national, state, and local level. Sociological research and theories relative to gang formation and the economics related to street and prison gangs.

CRIM 4340 Race, Crime and Justice
(A-F only; prereq 1303 or SOC 5110 or Anth 1604 or Cst 1101, 60 credits or grad student or instructor consent; credit will not be granted if already received for SOC 4340) Examines the intersection of race/ethnicity, gender, and class within the U.S. criminal justice system, with some attention given to global trends and international comparisons. Considers the racialized effects of crime control and criminal justice practices, including law enforcement, prosecution, sentencing, police-military community relations, and the disproportionate representation of racial/ethnic groups in the prison system. Explores attitudes and perceptions of crime/$232 from the perspective of racial/ethnic minorities, and differential crime rates among majority/minority groups.

CRIM 4391 Independent Study in Criminology
(A-F only; max cs 6; 6 repeats allowed; prereq instructor consent; maximum 6 credits allowed between SOC 4991 and CRIM 4391, no grad credit) Directed reading, research, or involvement in social action leading to preparation of a paper or other product.

CRIM 8600 Practicum in Criminology
(S-N only; max cs 15; 5 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, probation and parole departments, correctional institutions, delinquency control programs and public or private voluntary agencies. Orientation sessions precede placement. Student must submit internship application during the first 30 days of the preceding spring or fall semester.

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

Not applicable.
Summer 2015

Econ 3412 The Computer in Education
(A-F only; $17.51 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-assisted instruction.
87141 --001 LEC, 08:00am-03:00pm MTWThF, MonH 209, 05/18/15-06/22/15, instruction mode: Partially Online, Limited to 20; Combined with: 87652 EDUC 3412; McCarthy PhD, David Albert; Pepelnjak, Erin Kay, 4 cr Course meets from June 8-26, 2015 in an online learning environment, with a face-to-face meeting on Saturday, June 13, 2015.
87974 --001 LEC, 08:00am-04:00pm S, MonH 120, 07/11-07/15, instruction mode: Primarily Online, Limited to 20; Han, Insoon, 4 cr Course meets from June 8-July 31, 2015 in an online learning environment, with a face-to-face meeting on Saturday, June 13, 2015.

Econ 7001 Foundations of Teaching and Learning: Curriculum Theory and Design
(A-F only; prereq MEd student or MEd student or instructor consent; credit will not be granted if already received for EHS 7004) Offers a synthesis of previous courses, reviewed from the context of ethics and ethical dilemmas that touch on diversity, systems change, educators’ roles, professional competencies, and the NCTM’s Principles and Standards. Course meets from June 8-July 10, 2015 with a face-to-face meeting on Sunday, June 14, 2015.
87651 --001 LEC, 08:00am-04:00pm S, MonH 151, 06/14-07/16/14, instruction mode: Primarily Online, Limited to 20; Brice, Lynn M, 4 cr Course meets in an online learning environment from June 8-July 10, 2015, with a face-to-face meeting on Sunday, June 14, 2015.

Econ 8016 Theory and Practice of Qualitative Research Methods
(A-F; prereq B105 or equivalent, EdD. majors or instructor consent) Qualitative research traditions and methods, and practice with the skills and attitudes necessary to successfully conduct qualitative research.
87937 --001 LEC, 04:00pm-08:00pm M, MonH 151, 06/08-06/15-06/18, 04:00pm-08:00pm W, MonH 151, 07/01-07/05-07/11, instruction mode: Primarily Online, Limited to 20; Marchel, Mary Ann, 3 cr Course meets in an online learning environment from June 8-July 3, 2015, with a face-to-face meeting on Monday, June 8, 2015 and Wednesday, July 1, 2015.

Econ 8888 Thesis Credit: Doctoral (NGA; max crs 10 or 9999, 9 or 9999, 9999 abolished; prereq Max 18 cr per semester or summer; 24 cr required) (no description)
87532 --001 IND, 05/18-06/01-06/21/15, instruction mode: Independent/Directed Studies; Brice, Lynn M, 1-24 cr Registration for EdD Cohorts only.

EDUCATIONAL ADMINISTRATION (EdAd)
120 MontH150 EduE, 412 Library Drive, College of Education and Human Service Professions, Duluth, MN 55812-3029 218-726-7323 http://www.d.umn.edu/edad/ College of Education & Human Service Professions Summer Session
### University of Minnesota – Class Schedule for Duluth Campus

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTAL SCIENCE (ESci)</td>
<td>229 HH, 1114 Kirby Drive, Swenson College of Science &amp; Engineering, Duluth, MN 55812-3011</td>
<td>Ken Lloyd, 1-6 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>110 SpHC, 221 St. Mary's Court, College of Education and Human Service Professions, Duluth, MN 55812-3011</td>
<td>Mageau, Michael T, 1-3 cr, Ken Lloyd, 1-6 cr</td>
<td>3</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>330 Human Biomechanics</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<td>Provided.</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>4700 Statistics and Research Methods in Exercise Science</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>4960 Internship</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>4961 Independent Study</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>7001 Clinical Family Medicine</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>7100 Clinical Family Medicine</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<td>Exercise Science Athletic Training (ESA)</td>
<td>7201 Corporate Finance</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>Exercise Science Athletic Training (ESA)</td>
<td>7301 Information Technology in Business</td>
<td>Mageau, Michael T, 1-3 cr</td>
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### FINANCE & MANAGEMENT INFORMATION SYSTEMS (FMIS)

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANAGEMENT INFORMATION SYSTEMS (FMIS)</td>
<td>3350 LSBE, 1318 Kirby Drive, Labovitz School of Business and Economics, Duluth, MN 55812-3011</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
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<tr>
<td>MANAGEMENT INFORMATION SYSTEMS (FMIS)</td>
<td>3351 Business Communications</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
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<tr>
<td>MANAGEMENT INFORMATION SYSTEMS (FMIS)</td>
<td>3352 Information Technology in Business</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
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</tr>
</tbody>
</table>

### College of Liberal Arts

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Education and Human Service Professions</td>
<td>339 Human Biomechanics</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
<tr>
<td>College of Education and Human Service Professions</td>
<td>4700 Statistics and Research Methods in Exercise Science</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>College of Education and Human Service Professions</td>
<td>4960 Internship</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>College of Education and Human Service Professions</td>
<td>4961 Independent Study</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
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<tr>
<td>College of Education and Human Service Professions</td>
<td>7001 Clinical Family Medicine</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
<tr>
<td>College of Education and Human Service Professions</td>
<td>7100 Clinical Family Medicine</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>College of Education and Human Service Professions</td>
<td>7201 Corporate Finance</td>
<td>Mageau, Michael T, 1-3 cr</td>
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<tr>
<td>College of Education and Human Service Professions</td>
<td>7301 Information Technology in Business</td>
<td>Mageau, Michael T, 1-3 cr</td>
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</tr>
</tbody>
</table>

### Fall 2015

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Code</th>
<th>Instructor</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine (FMed)</td>
<td>591 Independent Study</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
<tr>
<td>Family Medicine (FMed)</td>
<td>6462 Family Medicine Preceptorship</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Subject</th>
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<th>Instructor</th>
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<tbody>
<tr>
<td>FMed 591 Independent Study</td>
<td>141 SpHC, 2205 University Drive, University of Minnesota Medical School, Duluth, MN 55812-3011</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
<tr>
<td>FMed 6462 Family Medicine Preceptorship</td>
<td>001 SpHC, 2205 University Drive, University of Minnesota Medical School, Duluth, MN 55812-3011</td>
<td>Mageau, Michael T, 1-3 cr</td>
<td>3</td>
<td>Provided.</td>
</tr>
</tbody>
</table>

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This information is accurate as of: 03/02/2015
FORS 3205 GEOG 3205 Mapping in Belize

FMIS 3612 Managerial Finance (A-F only; prerequisite: BS or candidate or approved Finance major or college consent) Intermediate conceptual and analytical applications in capital budgeting, managerial accounting, capital, cash management, equity financing, mergers and acquisitions, business reorganizations, international financial management.

87411 --001 LEC, 11:00am-01:55pm MTWTh, LSBE 229, 06/08/15-07/15/15, instruction mode: Classroom; Dhatt, Manjeet, 3 cr

FMIS 3644 Investment Fundamentals (A-F only; prerequisite: BS or candidate or approved Finance major or college consent) Comprehensive introduction to nature, problems, and procedures of evaluating particular securities and portfolio construction. Survey of basic principles of security analysis, analytical techniques, and investment policy for individual and institutional investors. Introduction to computer-assisted investment analysis.

87283 --001 LEC, 02:00pm-04:40pm MTWTh, LSBE 225, 07/16/15-07/31/15, instruction mode: Classroom, Limited to 40, 3 cr

FMIS 3649 International Finance (A-F only; prerequisite: BS or candidate or college consent) Comprehensive framework and analysis for financial management of international firms. International financial markets, exchange rates and international firms, elements of international investments, financing decisions, and strategy formulation.

87257 --001 LEC, 08:00am-10:55am MTWTh, LSBE 129, 07/16/15-07/31/15, instruction mode: Classroom, Limited to 40, 3 cr

FORS 4100 HLTH 4100 History of Health in Italy (A-F only; prerequisite: $6.00 per credit course fee in addition to tuition; Credit will not be granted if credit has been received for: HLTH 4120; prerequisite Minimum 30 credits, no grade credit; admitted to an approved study abroad program, required consent from the International Education Office.)

Taught on site in Italy. Investigating the foundations of public and community health using primary historical sites in the area now unified as Italy. Analyze the impact of social and cultural factors on community health from early civilizations through the Renaissance, with emphasis on the Black Death. Examine the role of arts used to convey health information for non-literate populations. Relate to aspects of preventative health care and promoting healthy communities in the present. Study Abroad.

87704 --001 LEC, 05/18/15-05/16/15, instruction mode: Study Abroad, Limited to 8; Tornabene, Ladona L, 3 cr

87489 --001 LEC, 05/18/15-05/16/15, instruction mode: Study Abroad, Limited to 16; Tornabene, Ladona L, 1-20 cr

FORS 5990 HLTH 5100 History of Health in Italy (A-F; per credit course fee in addition to tuition; max crs 20; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course.

87495 --001 LEC, 05/18/15-05/16/15, instruction mode: Study Abroad, Limited to 8; Tornabene, Ladona L, 1-20 cr

This course is an 18-day study abroad program. For travel dates, costs, application procedures, and other information, visit the UMD International Education Office website.

FORGE 407 508 Business Law for International Students (A-F; prerequisite credit will not be granted if already received for: MGMT 3051, 3 crs; prerequisite department consent) For students wishing to do special work in the fields of law and business.

87218 --001 LEC, 05/25/15-05/30/15, instruction mode: Classroom; Abbott, Donald, 3 cr

87257 --001 LEC, 08:00am-10:55am MTWTh, LSBE 129, 07/16/15-07/31/15, instruction mode: Classroom, Limited to 40, 3 cr

FMIS 3691 Independent Study Finance (A-F; Credit will not be granted if credit has been received for: FMIS 3291; max crs 3; prerequisite department consent) For students wishing to do special work in the fields of Finance.

87110 --001 IND, 06/08/15-07/31/15, instruction mode: Independent/Directed Studies; Li, Duhai, 3 cr

87624 --001 LEC, 05/15/15-06/12/15, instruction mode: Study Abroad, Limited to 10; Aune, Alison Judith, 3 cr

FORS 3205 GEOG 3205 Mapping in Belize (A-F only; prerequisite $6.00 per credit course fee in addition to tuition; Credit will not be granted if credit has been received for: GEOG 3205; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course; taught on site in Belize. Novice mappers to the geospatially processed data to create informative and cartographically derived outputs; a map. Through this international experience, students will be exposed to the geospacially proficient student will be exposed to the meaningful field experience and lab practice within cartographic and geographic skills will be combined to render valuable information about the Maya Gold landscape. Students will utilize Global Positioning System (GPS) and remote sensing techniques to create informative and cartographically derived outputs; a map. Through this international experience, students will be exposed to a unique cultural experience where they will learn what is important to Mayan culture by observing the dynamics of this landscape. Time spent in Belize will expose each student to the eclectic mingling of Mestizo, Mopan and Kekchi Maya, Garifuna, Creoles, Lebanese, East Indian and Chinese peoples.

87225 --002 LEC, 05/15/15-06/15/15, instruction mode: Study Abroad, Limited to 1; Carlson MS, Kate, 3 cr

12 This information is accurate as of: 03/02/2015

Summer 2015

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

87675 --002 FWK, 05/18/15-06/05/15, instruction mode: Independent/Directed Studies; Charleux, Laure, 3 cr

GIS 5591 Independent Study in GIS (A-F; max crs 6; prerequisite instructor consent) Independent problems for postbaccalaureate students interested in doing advanced work in selected fields of GIS.

87654 --001 IND, 06/08/15-07/15/15, instruction mode: Independent/Directed Studies; Charleux, Laure, 1-3 cr

GIS 5919 Internship in GIS (A-F; max crs 8; prerequisite GIS major with minimum 60 credits and instructor consent)

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

87656 --001 FWK, instruction mode: Independent/Directed Studies; Charleux, Laure, 3-4 cr

GEOGRAPHIC INFORMATION SCIENCE (GIS) 329 Cina, 1123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011 218-726-6300 http://www.d.umn.edu/geog/ College of Liberal Arts

FORGE 407 508 Business Law for International Students (A-F; prerequisite credit will not be granted if already received for: MGMT 3051, 3 crs; prerequisite department consent) For students wishing to do special work in the fields of law and business.

87218 --001 LEC, 05/25/15-05/30/15, instruction mode: Classroom; Abbott, Donald, 3 cr

87257 --001 LEC, 08:00am-10:55am MTWTh, LSBE 129, 07/16/15-07/31/15, instruction mode: Classroom, Limited to 40, 3 cr

FMIS 3691 Independent Study Finance (A-F; Credit will not be granted if credit has been received for: FMIS 3291; max crs 3; prerequisite department consent) For students wishing to do special work in the fields of Finance.

87110 --001 IND, 06/08/15-07/31/15, instruction mode: Independent/Directed Studies; Li, Duhai, 3 cr

87624 --001 LEC, 05/15/15-06/12/15, instruction mode: Study Abroad, Limited to 10; Aune, Alison Judith, 3 cr

FORS 3205 GEOG 3205 Mapping in Belize (A-F only; prerequisite $6.00 per credit course fee in addition to tuition; Credit will not be granted if credit has been received for: GEOG 3205; prerequisite Admission to an approved study abroad program requires consent from the International Education Office.)

Study abroad course; taught on site in Belize. Novice mappers to the geospatially processed data to create informative and cartographically derived outputs; a map. Through this international experience, students will be exposed to the meaningful field experience and lab practice within cartographic and geographic skills will be combined to render valuable information about the Maya Gold landscape. Students will utilize Global Positioning System (GPS) and remote sensing techniques to create informative and cartographically derived outputs; a map. Through this international experience, students will be exposed to a unique cultural experience where they will learn what is important to Mayan culture by observing the dynamics of this landscape. Time spent in Belize will expose each student to the eclectic mingling of Mestizo, Mopan and Kekchi Maya, Garifuna, Creoles, Lebanese, East Indian and Chinese peoples.

87225 --002 LEC, 05/15/15-06/15/15, instruction mode: Study Abroad, Limited to 1; Carlson MS, Kate, 3 cr

12 This information is accurate as of: 03/02/2015

University of Minnesota – Class Schedule for Duluth Campus
Geog 3991. Independent Study in Geography (A-F; max crs 6; 6 repeats allowed; prereq instructor consent) For students interested in doing advanced work in selected fields of geography.

Geog 3997. Internship in Geography (max crs 8; 8 repeats allowed; prereq Geography major, 60 credits, instructor consent) Scheduled assignments with direct supervision in public agencies or relevant private firms.

Geog 4999. Honors Project Geography (A-F; prereq minimum 90 credits, approval by department honors program director; no grad credit; meets HON req of Honors) Advanced individual project in any area of Geography, GIS/Science, Urban and Regional Studies, or Environment and Sustainability demonstrating sound theoretical and research foundations and resulting in a written report.

Geog 5991. Independent Study in Geography (A-F; max crs 6; 6 repeats allowed; prereq Maximum 4 credits can be applied to graduate program; instructor consent) Independent projects for postbaccalaureate students interested in doing additional work in selected fields in geography.

GEOLOGY (Geol) 229 HH, 1114 Kirby Drive, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-8385 http://www.d.umn.edu/dees/

Swenson College of Science & Engineering Summer Session

Geol 3901. Independent Study (max crs 4; 4 repeats allowed; prereq instructor consent) Directed readings and projects on topics not normally covered in other geology courses.

Geol 3996. Field Internship in Geological Sciences (S-N only; max crs 4; prereq 2312) Credit given for professional field work experience outside an academic department. Requires prior departmental approval and coordination with faculty sponsor.

Geol 4091. Geologic Problems and Research (A-F only; max crs 4; prereq instructor consent, no grad credit) Individual research in lab or field problems.

Geol 4500. Field Geology (A-F only; prereq 300, department consent; no grad credit) Geologic mapping of sedimentary, igneous, and metamorphic terranes; topographic mapping of Quaternary deposits and landforms; topographic maps and aerial photographs, including preparation of geologic maps and cross sections, and map unit description.

Geol 5091. Geologic Problems (max crs 4; 4 repeats allowed; prereq Graduate Student or instructor consent) Individual research in lab or field problems.

Geol 5094. Geologic Research (A-F only; max crs 6; prereq instructor consent) Individual research in lab or field problems.

Geol 8094. Geologic Research (A-F only; max crs 6; prereq instructor consent) Individual research in lab or field problems.

Geol 8333. Master's (NGA; prereq Master's student, adviser and DGS consent) (No description)

Geol 8444. Doctoral (NGA; prereq predoctoral student, adviser and DGS consent) (No description)

Geol 8666. Doctoral Pro-Thesis Credits (NGA; 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 or 24 cr total; course registration required for the doctoral students admitted summer 2007 and beyond; doctoral students allowed to register up to a 4 times totaling 60 cr) (No description)

Geos 8777. Thesis Credit: Master's (NGA; max crs 50. 10 repeats allowed; prereq Max 18 cr per semester or summer; 10 cr required (Plan A only))

Geos 8888. Thesis Credit: Doctoral (NGA; max crs 50. 10 repeats allowed; prereq (max 18 cr per semester or summer; 24 cr required) (No description)

Hlth 1470. Human Nutrition (A-F only; meets DLE req of Natural Sciences; meets LE req of Sustainability; meets LEIP req of LEIP CAT08) A lecture series introducing students to health and wellness encompassing nutritional, physical, emotional and spiritual aspects of health and well-being with emphasis on behavioral, environmental and social influences on developing a satisfying and productive lifestyle in our society.

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 responder certification.

Hlth 1900. CPR, AED for the Professional Rescuer (A-F only; $34.00 course fee in addition to tuition) Techniques of cardiopulmonary resuscitation involving one and two rescuers. Leads to American Red Cross certification for infant/child/adult CPR and AED.

Hlth 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth, legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.

GERMAN (Ger) 457 H, 1205 Ordway Court, College of Liberal Arts, Duluth, MN 55812-2011
218-726-7851 http://www.umn.edu/fi/it/languages/German.php

College of Liberal Arts Summer Session

Ger 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth, legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.

Hlth 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth, legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.

Hlth 2100. 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 responder certification.

Hlth 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth,legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.

Hlth 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth, legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.

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Hlth 2040. Berlin: Myth, Legend and Reality (A-F only; meets DLE req of Humanities; meets LE req of LE CAT5; meets LEIP req of LEIP CAT08) Analysis of Berlin the metropolis from the turn of the 20th century to today, through films, music, texts and essays, to determine where myth, legend, and reality merge and separate, and to comprehend the importance of Berlin in German and European historical, political and social developments. Taught in English.
Hlth 3101 Community Health (A-F only; prerequisites: BIOL 1001 or BIOL 1011; one semester college chemistry; credit will not be granted if already received for B1761) Study of the structure and function of the human body covering the cells and tissues of the integumentary, skeletal, muscular, circulatory, respiratory, digestive, genital, urinary, and reproductive systems. Laboratory experiences employ videos, models, skeletons, and pre-dissected human prosections. Intended for athletic training, exercise science, health education and health education majors as well as other health related professions. 87207 --002 LAB, 11:00am-11:55am MWF, SPHC 207, 07/06/15-07/31/15, instruction mode: Classroom, Limited to 30: Nierengarten, Mark Edward, 4 cr. 001LEC, 08:00am-10:40am MTWThF, SPHC 207, 07/06/15-07/31/15, instruction mode: Classroom, Limited to 30: Nierengarten, Mark Edward

Hlth 2030 Applied Human Anatomy (A-F only; prerequisites: exercise science or physical education and public health or prevention and environmental education major and candidate, [Biol 1001 or Biol 1011] and one semester college chemistry; credit will not be granted if already received for B1761) Study of the structure of the human body covering the cells and tissues of the integumentary, skeletal, muscular, circulatory, respiratory, digestive, genital, urinary, and reproductive systems. Laboratory experiences employ videos, models, skeletons, and pre-dissected human prosections. Intended for athletic training, exercise science, health education and health education majors as well as other health related professions. 87207 --002 LAB, 11:00am-11:55am MWF, SPHC 207, 07/06/15-07/31/15, instruction mode: Classroom, Limited to 30: Nierengarten, Mark Edward, 4 cr. 001LEC, 08:00am-10:40am MTWThF, SPHC 207, 07/06/15-07/31/15, instruction mode: Classroom, Limited to 30: Nierengarten, Mark Edward

HCM 4996 Internship in Health Education (S-A-F only; $43.75 course fee in addition to tuition; max crs 15. 3 repeats allowed; prereq health education major, instructor consent; no grad credit) Supervised entry level, field based, practical experience related to work experience, public service, and professional activities in health care, public health and promotion or environmental and public health and promotion or environmental agencies. The tenets of the Qur’an and the family, and Islam’s encounter with the Occident. It follows the survey of the Qur’an and Traditions; the tenets of the faith, sectarian differences; gender and the family, and Islam’s encounter with the Occident. 87783 --001 LEC, 05/18/15-06/05/15, instruction mode: Correspondence, Limited to 25: Stanfield-Johnson, Rosemary, 3 cr. 87786 --001 LEC, 05/18/15-06/05/15, instruction mode: Correspondence, Limited to 25: Stanfield-Johnson, Rosemary, 3 cr. 87785 --001 LEC, 05/18/15-06/05/15, instruction mode: Correspondence, Limited to 25: Stanfield-Johnson, Rosemary, 3 cr. Arranged.

HCM 4991 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. 87330 --001 IND, 06/08/15-07/31/15, instruction mode: Independent/Directed Studies, Limited to 10: Schultz, Jennifer, 1.3 cr

HCM 4997 Internship (A-F; prereq LSBE candidate or Health Management minor, 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. 87290 --001 FWK, instruction mode: Independent/Directed Studies; Dauner, Kim Nicholas, 3 cr

Health, Physical Education and Recreation (HPER) HPER 3300 Health and Physical Education in the Elementary School (A-F only; $43.75 course fee in addition to tuition; 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. 87449 --030 LEC, 05/18/15-06/05/15, SPHC 210, 05/18/15-06/05/15, 01:00pm-02:15pm MWFThF, 01:00pm-02:15pm MWFThF, SPHC 190A, 05/18/15-06/05/15, instruction mode: Partially Online, Limited to 29: Skrbich, Karen O.; Carlson, Jane A.K., 3 cr

College of Liberal Arts

HISTORY (Hist) 269 ABAH, 1122 University Drive, College of Liberal Arts, Duluth, MN 55812-3011 218-726-7253 https://www.umn.edu/college-of-liberal-arts/historic.php

College of Business & Economics

Health Care Management (HCM)

Hist 1027 Introduction to Islam (A-F only; meets DLE req of Humanities; meets LE req of LE CAT) 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 survey of the Qur’an and Traditions; the tenets of the faith, sectarian differences; gender and the family, and Islam’s encounter with the Occident. It follows the survey of the Qur’an and Traditions; the tenets of the faith, sectarian differences; gender and the family, and Islam’s encounter with the Occident. https://lsbe.d.umn.edu/healthcare/healthcare.php

Hist 3097 Internship in History (A-F only; max crs 6; 6 repeats allowed; prereq 60 credits, instructor consent) Supervised opportunity to pursue local or regional history under auspices of local museums, historical societies, commemorative commissions. Written and oral presentation of completed project. 87836 --001 FWK, instruction mode: Independent/Directed Studies, Limited to 3: Matthews, Steve, 1.3 cr

Hist 3346 History of Hollywood (A-F only; prereq credit will not be granted if already received for HIST 3346) 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 identity and ideology that shaped the history of the American people will be examined. 87418 --001 LEC, 05/18/15-06/05/15, instruction mode: Correspondence, Limited to 20: Pogrebski, Alexis E., 3 cr

College of Liberal Arts
JOURNALISM (Jour)
547 H. 1201 Ordway Court, College of Liberal Arts, Duluth, MN 55812-3011
218-726-8131
http://www.d.umn.edu/jmie

Jour 2400 Community and Journalism
(A-F only; prereq Credit will not be granted if already received for: 3400; meets DLE req of Global Perspectives) Examines the role of journalism in defining communities. Exposure to various concepts of community and the role journalism has in defining these communities on both a local and global scale. Analyze a specific case study of one community journalism entity, and explore the ramifications of technology on the transformation of community.
87965 – 001 LAB, 05/18-15/06/15, instruction mode: Correspondence, Limited to 20; Hatcher, John, 3 cr
Jour 3700 Media Law and Ethics
(A-F; max crs 6) 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.
87617 – 001 LEC, 05/18-15/06/15, instruction mode: Correspondence, Limited to 20; Wesner, Keanston, 3 cr
Summer Session

MgtS 3491 Independent Study
(A-F only) Independent/Directed Studies arranged with instructor and department head. May include readings, research and/or special projects.
87285 – 001 IND, instruction mode: Independent/Directed Studies; 1-4 cr

LINGUISTICS (Ling)
420 H. 1201 Ordway Court, College of Liberal Arts, Duluth, MN 55812-3011
218-726-8131
http://www.d.umn.edu/writ/

Ling 3591 Independent Study in Linguistics
(A-F only; max crs 6; 4 repeats allowed; prereq MSEM candidate, department consent) Directed individual study arranged with instructor and department head before registration. May include readings, research and/or special projects.
87284 – 001 IND, instruction mode: Independent/Directed Studies; 1-4 cr
Ling 3599 Independent Study in Linguistics
(A-F only; max crs 6; 4 repeats allowed; prereq MSEM candidate, department consent) Directed individual study arranged with instructor and department head before registration. May include readings, research and/or special projects.
87284 – 001 IND, instruction mode: Independent/Directed Studies; 1-4 cr
Labovitz School of Business & Economics
http://lsbe.d.umn.edu/marketing/marketing.php

MARKETING (MKTG)

University of Minnesota – Class Schedule for Duluth Campus   Summer 2015

MKTG 3741  Fundamentals of Selling
(A-F; prereq 3401, MKTG 3701, FMS 3301 or MGT 3301, FMS 3601, 90 credits, LSBE candidate or college consent; no grad credit)
Integration of basic functions of marketing, finance, production, and behavioral sciences. Emphasis on organizational sales process and development and implementation of competitive strategies that respond to social, political, and economic conditions from perspective of top management.
87915 --001 LEC, 08/05-08/15, MTWThF, MTTWH, LSBE 125, 08/05-08/15/31, instruction mode: Classroom, Limited to 40; Jones III, 3 cr

MKTG 3701 Principles of Marketing
(A-F; prereq LSBE candidate or approved non-LSBE Human Resources Management minor or college consent)
Principles of selling, the process of selling products, and the ability to develop long-term partnerships with customers. Emphasis on marketing, planning, communication, and presentation skills.
87919 --001 LEC, 08/05-08/15, MTWThF, MTTWH, LSBE 125, 08/05-08/15/31, instruction mode: Classroom, Limited to 40; Krak, John L, 3 cr

MKTG 3776 Marketing Analytics Summer Internship
(A-F; prereq Marketing Analytics Major or Minor)
The Marketing Analytics Summer Internship provides students with an opportunity to work as a member of a marketing analytics measurement team for a minimum of 100 hours during the summer. During the internship, students have the opportunity to apply their analytic knowledge and skills to contribute to a business or industry sector.
87956 --001 LEC, 05/04-05/14/15, instruction mode: Independent/Directed Studies, Limited to 20; Pitterle, Sara Louise, 1 cr

MKTG 3751 Independent Study
(A-F; max crs 3; prereq department consent)
For students wishing to do special work in marketing that extends beyond, or in greater depth than, regular course offerings
87328 --001 IND, 06/08-07/15/31, instruction mode: Independent/Directed Studies, Limited to 10; Vaydiana-than, Rajiv, 3 cr

MKTG 3797 Marketing Internship
(A-F; prereq LSBE candidate, consent of internship director; credit will not be granted if already received for MKTG 3797)
Work-integrated learning program providing practical experiences within students’ major. Students participate in approved program within cooperating businesses, governmental agencies, or civic organizations. Requires minimum of 200 hours work experience, assigned written reports, and performance evaluations.
87909 --001 LEC, 06/08-07/15, MTWThF, MTTWH, LSBE 225, 06/08-07/15/31, instruction mode: Classroom, Limited to 40; Liang, Xin, 3 cr

MKTG 3701 Principles of Marketing
(A-F; prereq LSBE candidate or approved non-LSBE business administration minor or college consent)
Principles of marketing being a process of exchange. Emphasis on conceptual tools necessary to deal with both strategic marketing management issues and tactical management of product, price, promotion, and distribution.
87268 --001 LEC, 06/08-07/15, MTWThF, MTTWH, LSBE 125, 06/08-07/15/31, instruction mode: Classroom, Limited to 40; Castleberry Sr, Stephen Byron, 3 cr Summer Session

MKTG 3701 Principles of Marketing
(A-F; prereq LSBE candidate or approved non-LSBE business administration minor or college consent)
Marketing as a process of exchange. Emphasis on conceptual tools necessary to deal with both strategic marketing management issues and tactical management of product, price, promotion, and distribution.
87268 --001 LEC, 06/08-07/15, MTWThF, MTTWH, LSBE 125, 06/08-07/15/31, instruction mode: Classroom, Limited to 40; Castleberry Sr, Stephen Byron, 3 cr Summer Session

MKTG 3776 Marketing Analytics Summer Internship
(A-F; prereq Marketing Analytics Major or Minor)
The Marketing Analytics Summer Internship provides students with an opportunity to work as a member of a marketing analytics measurement team for a minimum of 100 hours during the summer. During the internship, students have the opportunity to apply their analytic knowledge and skills to contribute to a business or industry sector.
87956 --001 LEC, 05/04-05/14/15, instruction mode: Independent/Directed Studies, Limited to 20; Pitterle, Sara Louise, 1 cr

MKTG 3751 Independent Study
(A-F; max crs 3; prereq department consent)
For students wishing to do special work in marketing that extends beyond, or in greater depth than, regular course offerings
87328 --001 IND, 06/08-07/15/31, instruction mode: Independent/Directed Studies, Limited to 10; Vaydiana-than, Rajiv, 3 cr

MKTG 3797 Marketing Internship
(A-F; prereq LSBE candidate, consent of internship director; credit will not be granted if already received for MKTG 3797)
Work-integrated learning program providing practical experiences within students’ major. Students participate in approved program within cooperating businesses, governmental agencies, or civic organizations. Requires minimum of 200 hours work experience, assigned written reports, and performance evaluations.
87909 --001 LEC, 06/08-07/15, MTWThF, MTTWH, LSBE 225, 06/08-07/15/31, instruction mode: Classroom, Limited to 40; Liang, Xin, 3 cr

MKTG 4751 Retailing
(A-F; prereq MKTG 3701 or MKTG 3701 or concurrent registration, no grad cr)
This course covers marketing in the travel and tourism industry including the special challenges among complementary and competitive organizations to market an area or region to travelers.
87222 --001 LEC, 06/08-07/15, MTWThF, MTTWH, LSBE 225, 06/08-07/15/31, instruction mode: Correspondence, Limited to 40; T: Marketing for Non-Profit, Wilde, Nicole Deanna, 3 cr

MKTG 3751 Independent Study
(A-F; max crs 6; 8 repeats allowed; prereq MKTG college student, college consent)
Provides opportunities 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 course offerings.
87183 --001 IND, 06/08-07/15/31, instruction mode: Independent/Directed Studies, Limited to 20; Vaydiana-than, Rajiv, 3 cr

MKTG 3795 Special Topics (Various Topics to be Assigned)
(A-F; max crs 8; 8 repeats allowed; prereq MBA student or department approval)
Special topics on an integrative, interdisciplinary study of problems in accounting, economics, and business administration.
88027 --001 LEC, 06/08-08/30/30, TBA, 233, 07/21-07/31/30, instruction mode: Classroom, Limited to 20; T: Global Issues in Employment; David, Jennifer Gregory, 5 cr
Class will meet on 7/21, 7/23, 7/28, and 7/30.

MASTER OF LIBERAL STUDIES (MLS)
College of Liberal Arts

MLS 8991 Directed Study
(A-F; max crs 6; 8 repeats allowed; prereq MLS candidate or department consent)
Individualized study under the supervision of the director of the liberal studies program.
87834 --001 IND, 07/06-07/31/35, instruction mode: Classroom, Limited to 5; 1, 8 cr

MATH 1160 Finite Mathematics and Introduction to Calculus
(A-F; prereq Math ACT 21 or higher or SSP 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. Topics include basic concepts of solving equations and inequalities as well as an introduction to function concepts and graphing for polynomial, rational, logarithmic, and exponential functions.
87281 --001 LEC, 09:00am-11:30am MTWThF, Library 215, 08/15-09/15/31, instruction mode: Classroom, Limited to 30; Edmmond, Eric Michael, 5 cr Summer Session

Summer 2015
Math 1250 Precalculus Analysis

(A-F only; prerequisite Math ACT 24 or higher or a grade of at least C in Math 1250 or department consent)

First part of a standard introduction to calculus of functions of a single variable. Limits, continuity, derivatives, integrals, and their applications.

87030 --002 LEC, 08:00am-10:00am MWF, Talbot 203, 05/18/15-07/03/15, instruction mode: Classroom, Limited to 30; Li, Xuan, 4 cr

Math 1269 Calculus I

(A-F only; credit will not be granted if credit has been received for: MATH 1290 or 1296 or 1597; meets DLE req of Logic & Quantitative Reasoning; meets LE req of LE CAT2)

First part of a standard introduction to calculus of functions of a single variable. Limits, continuity, derivatives, integrals, and their applications.

87030 --002 LEC, 08:00am-10:00am MWF, Talbot 203, 05/18/15-07/03/15, instruction mode: Classroom, Limited to 30; Li, Xuan, 4 cr

Math 1270 Calculus II

(A-F only; credit will not be granted if credit has been received for: MATH 1290; prerequisite a grade of at least C- in 1290 or 1296 or 1597; meets DLE req of Logic & Quantitative Reasoning; meets LE req of LE CAT2)

Second part of a standard introduction to calculus. Vectors, functions of several variables, partial derivatives, multiple integrals, and vector fields.

87031 --001 LEC, 09:30am-11:30am MWF, Morrill 208, 05/18/15-07/03/15, instruction mode: Classroom, Limited to 30; Li, Xuan, 5 cr

Math 3097 Internship

(S-N only; max crs 3; 3 repeats allowed; prerequisite Math major, department consent)

Practical, independent work in commercial, government, or industrial setting. Department approval required before beginning project.

87047 --001 FWK, instruction mode: Independent/Directed Studies; Fei, Guihua, 1 cr

Math 3098 FWK

87048 --001 FWK, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1 cr

Math 3099 FWK

87050 --002 FWK, instruction mode: Independent/Directed Studies; Green, Richard F, 1 cr

Math 3120 Mathematics Tutorial Project

(S-N only; max crs 4; 4 repeats allowed; prerequisite 1290 or 1296 or 1597, SSP 3003, instructor consent, a grade of C- or better is required in all prerequisite courses)

Primarily for tutoring 1xxx mathematics courses, under supervision of mathematics department member.

87060 --002 FWK, instruction mode: Independent/Directed Studies; Liu, Xuan, 1 cr

Math 3280 Differential Equations with Linear Algebra

(A-F only; 75 course fee in addition to tuition; prerequisite a grade of at least C- in 1297 or 1597)

First, second, and higher order equation series; Laplace transforms; linear algebra; computer software; modeling applications; introduction to vectors; matrix algebra, eigenvalues.

87071 --002 LEC, 09:30am-11:30am F, Kipke 143, 07/07/15-07/15/15, instruction mode: Classroom, Limited to 30; Zimmermann, Laura Joan, 4 cr

Math 3326 Vectors and Matrices

(A-F only; prerequisite 1297 or 1597 or instructor consent, a grade of C- or better is required in all prerequisite courses)

Introduction to mathematical logic, predicates and quantifiers, sets, proof techniques, propositional and mathematical induction, recursive algorithms, analysis of algorithms, assertions and loop invariants, complexity measures of algorithms, combinatorial counting techniques, relations, graph theory.

88054 --001 LEC, 09:30am-11:30am MTWTh, SSE 32, 05/18/15-07/03/15, instruction mode: Classroom, Limited to 30; Froncek, Dalibor, 4 cr

Math 3941 Undergraduate Colloquium

(S-N only; prerequisite Math major or minor, department consent; must register during semester of 16th point)

Exposure to UMD mathematics-related colloquia. Sixteen points required; one for attending a colloquium; one for writing an anonymous report on a colloquium (at least four must be earned through giving a colloquium).

87134 --001 LEC, 06/08/15-07/15/15, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1 cr

Math 5991 Independent Study

(A-F only; max crs 8; 8 repeats allowed; prerequisite department consent; Maximum 6 credits to a grad program.)

Directed individual reading and/or research in mathematics; must be arranged with instructor and department head before registration.

87650 --001 FWK, instruction mode: Independent/Directed Studies; Li, Yang, 1 cr

87651 --002 FWK, instruction mode: Independent/Directed Studies; Lettner, Carmen Marie, 1 cr

Math 5998 Thesis Credits: Master's

(A-F only; up to 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite department consent; Maximum 6 credits to a grad program.)

87655 --019 IND, instruction mode: Independent/Directed Studies; Li, Yang, 1.5 cr

Math 6298 Calculus III

(A-F only; 75 course fee in addition to tuition; prerequisite a grade of at least C- in 1297 or 1597)

Third part of a standard introduction to calculus. Cylindrical and spherical coordinates, vector functions, vector-valued functions, partial derivatives, multiple integrals, vector fields, Green's and Stokes' theorems.

87755 --019 IND, instruction mode: Independent/Directed Studies; Limited to 9; Li, Yang, 1.5 cr

Math 3297 Internship

(S-N only; max crs 3; 3 repeats allowed; prerequisite Math major, department consent)

Practical, independent work in commercial, government, or industrial setting. Department approval required before beginning project.

87049 --001 FWK, instruction mode: Independent/Directed Studies; Fei, Guihua, 1 cr

Math 3003 FWK

87050 --002 FWK, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1 cr

Math 3005 FWK

87051 --003 FWK, instruction mode: Independent/Directed Studies; Gallian, Joseph A, 1 cr

Math 3007 FWK

87053 --005 FWK, instruction mode: Independent/Directed Studies; James, Barry R, 1 cr

Math 3064 FWK

87056 --008 FWK, instruction mode: Independent/Directed Studies; Lettner, Carmen Marie, 1 cr

Math 3065 FWK

87057 --010 FWK, instruction mode: Independent/Directed Studies; Liu, Xuan, 1 cr

Math 3066 FWK

87058 --012 FWK, instruction mode: Independent/Directed Studies; Li, Yang, 1 cr

Math 3067 FWK

87059 --014 FWK, instruction mode: Independent/Directed Studies; Lettner, Carmen Marie, 1 cr

Math 3068 FWK

87060 --016 FWK, instruction mode: Independent/Directed Studies; Trogdon, Steven Arman, 1 cr

Math 3069 FWK

87061 --017 FWK, instruction mode: Independent/Directed Studies; Hampton, Marshall E, 1 cr

Math 3070 FWK

87062 --018 FWK, instruction mode: Independent/Directed Studies; James, Barry R, 1 cr

Math 3071 FWK

87063 --019 FWK, instruction mode: Independent/Directed Studies; James, Kang Ling, 1 cr

Math 3120 Mathematics Tutorial Project

(S-N only; max crs 4; 4 repeats allowed; prerequisite 1290 or 1296 or 1597, SSP 3003, instructor consent, a grade of C- or better is required in all prerequisite courses)

Primarily for tutoring 1xxx mathematics courses, under supervision of mathematics department member.

87064 --010 FWK, instruction mode: Independent/Directed Studies; Limited to 9; Chiou, Steven, 1 cr

Math 3121 Differential Equations with Linear Algebra

(A-F only; prerequisite 1297 or 1597 or instructor consent, a grade of C- or better is required in all prerequisite courses)

First, second, and higher order equation series; Laplace transforms; linear algebra; computer software; modeling applications; introduction to vectors; matrix algebra, eigenvalues.

87071 --002 LEC, 09:30am-11:30am F, Kipke 143, 07/07/15-07/15/15, instruction mode: Classroom, Limited to 30; Zimmermann, Laura Joan, 4 cr

Math 3122 Thesis Credits: Master's

(A-F only; up to 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite department consent; Maximum 6 credits to a grad program.)

87655 --019 IND, instruction mode: Independent/Directed Studies; Limited to 9; Li, Yang, 1.5 cr

Math 8777 Thesis Credits: Master's

(A-F only; max crs 20; 20 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required) (NGA; max crs 50; 10 repeats allowed; prerequisite Maximum 18 credits per semester or summer; 10 credits total required)
Phar 3601 Basic Human Physiology for the Health Professions
(A-F; prereq Medical terminology and anatomy)
For pre-health professional students to prepare for more in-depth courses in normal functions (physiology) for the major human organ systems and diseases (pathophysiology) in those systems.

Phar 3700 Fundamentals of Pharmacotherapy
(A-F; Credit will not be granted if credit has been received for: Phar 3700; prereq Medical terminology and admission to a graduate program or instructor consent)
Drug therapy, Emphasizes recognition of brand/generic drug names, their therapeutic classes and common uses. Use of drug information resources.

Phar 5201 Applied Health Science Terminology
(prereq Basic knowledge of human anatomy/physiology.)
Self-study course. Medical terms, how to apply them when documenting/reporting patient care procedures.

Phar 5206 Applied Health Literacy and Communication
(A-F; Credit will not be granted if credit has been received for: Phar 3806; Phar 3807, and 5206 are equivalent to the online Duluth Phar 3206 and 5206 and credit will not be granted if credit has been received for: Phar 3806; Phar 3807, and 5206 are equivalent to the online Duluth Phar 3206 and 5206)
Health literacy issues. Misunderstandings in health-related communication. Ways in which health literacy impacts public health. Ways in which health literacy can be improved/steps individual health-care professionals can take to ensure that patients have a better understanding of their health-related issues.

Phar 5700 Advanced Fundamentals of Pharmacotherapy
(A-F; Credit will not be granted if credit has been received for: Phar 3700; prereq Medical Terminology and admission to a graduate program or instructor consent)
Drug therapy, Emphasizes recognition of brand/generic drug names, their therapeutic classes and common uses. Use of drug information resources.

Phil 1001 Critical Thinking
(A-F only; meets DLE req of Logical & Quantitative Reasoning; meets LE req of LE CAT7)
Patterns of reasoning encountered in everyday life, including advertising, editorials, news articles. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid misuses of reasoning.

Phil 1007 Philosophy and World Religions
(A-F only; meets DLE req of Global Perspectives; meets LE req of LE CAT7)
Comparative philosophical examination of teachings and practices of several major world religions selected from ancient polytheism, Christianity, Judaism, Islam, Taoism, Buddhism, Hinduism, and various Native American and African religions.

Phy 4772 Elective Practice Experience I
(A-F; prereq Pharm.D. I, II, III, MN Board of Pharmacy Intern, criminal background check, BLS CPR certification, proof of negative Mantoux test or [explanation of positive test], proof of chicken pox immunity)
Five weeks of experiential learning or outpatient pharmacy practices where direct patient contact and care occurs for 5 weeks, or experience in a non-patient care setting, sites vary widely from governmental agencies to pharmacy associations to specialized practices.

Phys 3949 Directed Study I
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phy 3952 Directed Study II
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phy 3953 Directed Study III
(max crs 10; prereq instructor consent)
Directed research in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phys 3992 Directed Study IV
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phy 3993 Directed Study V
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phys 4994 Directed Study VI
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phys 7217 Elective Practice Experience V
(A-F only; meets DLE req of Logical & Quantitative Reasoning; meets LE req of LE CAT7)
Patterns of reasoning encountered in everyday life, including advertising, editorials, news articles. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid misuses of reasoning.

Swenson College of Science & Engineering
This information is accurate as of: 03/02/2015

371 NW 105th Street, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-7142
http://www.d.umn.edu/physics

University of Minnesota – Class Schedule for Duluth Campus   Summer 2015

Phar 6294 Directed Study I
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phar 6295 Directed Study II
(max crs 10; prereq instructor consent)
Directed studies in pharmacy practice, pharmaceutics, medicinal chemistry, and experimental or clinical pharmacology.

Phar 6296 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 6297 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 6298 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 6299 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 6300 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 6301 -001 IND, 06/15/08/15, instruction mode: Independent/Directed Studies, Limited to 5, 1 cr

Phar 7111 Elective Practice Experience I
(A-F; prereq Pharm.D. I, II, III, MN Board of Pharmacy Intern, criminal background check, BLS CPR certification, proof of negative Mantoux test or [explanation of positive test], proof of chicken pox immunity)
Five weeks of experiential learning or outpatient pharmacy practices where direct patient contact and care occurs for 5 weeks, or experience in a non-patient care setting, sites vary widely from governmental agencies to pharmacy associations to specialized practices.

87319 – 001 FWK, 06/15/08/15, instruction mode: Classroom, Limited to 60, 4 cr

Phar 7121 Elective Practice Experience II
(A-F; prereq Pharm.D. I, II, III, MN Board of Pharmacy Intern, criminal background check, BLS CPR certification, proof of negative Mantoux test or [explanation of positive test], proof of chicken pox immunity)
Five weeks of experiential learning or outpatient pharmacy practices where direct patient contact and care occurs, or experience in a non-patient care setting. Sites vary widely from governmental agencies to pharmacy associations to specialized practices.

87320 – 001 FWK, 06/15/08/15, instruction mode: Classroom, Limited to 60, 4 cr

Phar 7123 Elective Practice Experience III
(A-F; prereq Pharm.D. I, II, III, MN Board of Pharmacy Intern, criminal background check, BLS CPR certification, proof of negative Mantoux test or [explanation of positive test], proof of chicken pox immunity)
Experience in inpatient or outpatient pharmacy practices where direct patient contact and care occurs for 5 weeks, or experience in a non-patient care setting, sites vary widely from governmental agencies to pharmacy associations to specialized practices.

87321 – 001 FWK, 06/15/08/15, instruction mode: Classroom, Limited to 60, 4 cr

Phar 7121 Elective Practice Experience V
(A-F only; $3,500.00 course fee in addition to tuition; prereq Pharm.D. I, II, III, MN Board of Pharmacy Intern, criminal background check, BLS CPR certification, proof of negative Mantoux test or [explanation of positive test], proof of chicken pox immunity)
Five weeks of experiential learning or outpatient pharmacy practices where direct patient contact and care occurs for 5 weeks, or experience in a non-patient care setting, sites vary widely from governmental agencies to pharmacy associations to specialized practices.

87343 – 001 FWK, 06/15/08/15, instruction mode: Classroom, Limited to 20, 4 cr

PHILOSOPHY (Phil)
369 ABAA. 1121 University Driv e, College of Liberal Arts, Duluth, MN 55812-3011
218-726-8548
http://www.d.umn.edu/phil/

College of Liberal Arts
May Session

Phil 1008 Critical Thinking
(A-F only; meets DLE req of Logical & Quantitative Reasoning; meets LE req of LE CAT7)
Patterns of reasoning encountered in everyday life, including advertising, editorials, news articles. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid misuses of reasoning.

87347 – 001 LEC, 05/18/05/15, 05/15/05/15, instruction mode: Correspondence, Limited to 25; Ford, Jason, 4 cr

Summer Session

Phil 1001 Introduction to Philosophy
(A-F only; Credit will not be granted if credit has been received for: PHIL 1101; meets DLE req of Humanities; meets LE req of LE CAT7)
Introduction to philosophical heritage through examination of several classic philosophical problems such as the existence of God, nature of knowledge, free will versus determinism, and the relation of mind to body.

87476 – 001 LEC, 06/08/05/15, 05/15/05/15, instruction mode: Correspondence, Limited to 25; Robert, Ward, 3 cr

Phil 1007 Philosophy and World Religions
(A-F only; meets DLE req of Global Perspectives; meets DLE req of Humanities; meets LE req of LE CAT7; meets LEIP req of LEIP CAT7)
Comparative philosophical examination of teachings and practices of several major world religions selected from ancient polytheism, Christianity, Judaism, Islam, Taoism, Buddhism, Hinduism, and various Native American and African religions.

87786 – 001 LEC, 06/15/07/03/15, 05/15/07/03/15, instruction mode: Correspondence, Limited to 25; Saint, Michelle Elaine, 3 cr

PHYSICS (Phys)
371 NW 105th Street, Swenson College of Science & Engineering, Duluth, MN 55812-3011
218-726-7142
http://www.d.umn.edu/physics

Swenson College of Science & Engineering
This information is accurate as of: 03/02/2015

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Phys 2013  General Physics I
(NGA; prereq Master’s student, adviser and DGS consent) (No description)

87150 --001 IND, 05/18-15/06-05/15, instruction mode: Independent/Directed Studies, 1 cr
Hours arranged.

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

87393 --001 IND, 05/18-15/06-05/15, instruction mode: Independent/Directed Studies, 1 cr
Hours arranged.

Summer Session

Phys 1001 Introduction to Physics
(A F only; prereq Algebra, trig and meets DLE req of Natural Sciences; Noncalculus general physics course primarily for certain preprofessional fields. Topics in mechanics, heat, and sound.

87209 --002 LAB, 10:00am-11:50am TTh, MWAH 275, instruction mode: Laboratory; Not all cr will be accepted if already received for PHY 1201 or 1202. Johnson, Darrin Eric, 5 cr

87877 --003 LAB, 12:00pm-01:50pm TTh, MWAH 275, instruction mode: Laboratory; Johnson, Darrin Eric, 5 cr

Phys 2013 General Physics I
(A F only; prereq or concurrent enrollment in PHY 2014. Prerequisite of Math 1290 or 1296 or 1996; credit will not be granted if already received for PHY 1201 or 2014. Credit for Phys 2013 only)

Calculus-based introduction to Newtonian Mechanics, fluid mechanics, and heat exemplified by laboratory study. This laboratory accompanies PHYs 2013 and 2014 and should be taken concurrently.

87775 --002 DIS, 08:00am-09:40am F, MWAH 397, instruction mode: Classroom; Johnson, Darrin Eric, 4 cr

Summer Session

Phys 8777 Thesis Credits: Master’s
(NGA; prereq Master’s student, adviser and DGS consent) (No description)

87392 --002 IND, instruction mode: Independent/Directed Studies, 1 cr
Hours arranged.

POLITICAL SCIENCE (Pol)

May Session

Pol 3097 Government Internship
(S-N only; max crs 12; 10 repeats allowed; prereq 60 cr; 4 cr max from 3097, 3197; 3297 may be applied toward advanced political science major requirements; instructor consent)

Scheduled work assignments with direct supervision in performance of governmental functions; full- or part-time employment.

87259 --001 FWK, 05/18-15/06-05/15, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-12 cr

Pol 3197 Nongovernmental Internship
(S-N only; max crs 6; 6 repeats allowed; prereq 60 cr; 4 cr max from 3097, 3197; 3297 may be applied toward advanced political science major requirements; instructor consent)

Supervised, scheduled work assignments in performance of political functions in nongovernmental organizations; full- or part-time employment; maximum of 12 cr total required (Plan A only)

87159 --001 FWK, 05/18-15/06-05/15, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-12 cr

Pol 4191 Independent Study
(A F only; max crs 6; 6 repeats allowed; prereq 8 cr in political science, or 6 cr in other social sciences, instructor consent)

Advanced study and research under supervision of a staff member. Student must consult with instructor before registration.

87160 --001 IND, 05/18-15/06-05/15, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-4 cr
Summer Session

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 political science major requirements; instructor consent)

Scheduled work assignments with direct supervision in performance of governmental functions; full- or part-time employment.

87260 --003 FWK, 06/08-15/07-15/15, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-12 cr

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 political science major requirements; instructor consent)

Supervised, scheduled work assignments in performance of political functions in nongovernmental organizations; full- or part-time employment.

87263 --003 FWK, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-12 cr

Pol 4191 Independent Study
(A F only; max crs 6; 6 repeats allowed; prereq 8 cr in political science, or 6 cr in other social sciences, instructor consent)

Advanced study and research under supervision of a staff member. Student must consult with instructor before registration.

87298 --003 IND, instruction mode: Independent/Directed Studies, Limited to 3; Youde, Jeremy Roger, 1-4 cr

PSYCHOLOGY (Psy)

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

College of Liberal Arts

May Session

Psy 1003 General Psychology
(A F only; meets DLE req of Social Sciences; meets LE req of LE CAT5)

Scientific study of behavior; current knowledge of biological, social, and cognitive areas of psychology. Assessment, research methods, human development, personality, mental disorders, and therapy.

87433 --050 LEC, 05/18-15/07-15/15, instruction mode: Correspondence, Limited to 15; Gordon, Randall A, 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 the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your access go to https://www.umn.edu/initiate? and follow the directions.

Psy 2003 Psychology: Discipline and Profession
(A F only; prerequisites in psychology or psychology major)

Orientation to psychology: the major discipline, and professions available. Subfields of psychology, ethical issues, careers, preparation for graduate school, and opportunities for professional development. Introduction to research, available resources and preparation for writing assignments required in upper-division psychology courses.

87573 --050 LEC, 05/18-15/07-15/15, instruction mode: Correspondence, Limited to 30; Marsh, Karen Linda, 1 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 the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your account go to https://www.umn.edu/initiate? and follow the directions.

Psy 2011 Developmental Psychology
(A F only; meets DLE req of Cultural Diversity in the US; meets DLE req of Social Sciences; meets LE req of LE CAT4; meets LCD req of LCD CAT6) Major processes in human development, conception through lifespan; biological and cultural influences on physical-motor, cognitive, social, and emotional development; effects of diverse cultural traditions and values; social policy implications.

87502 --050 LEC, 05/18-15/07-15/15, instruction mode: Correspondence, Limited to 30; Levenson, Katey Rae, 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 the semester. No exceptions. Initial course information will be sent to you via your UMD email account. To activate your access go to https://www.umn.edu/initiate? and follow the directions.
University of Minnesota – Class Schedule for Duluth Campus

Psy 223 Gender in Society (A-F only; prereq Elem Algebra, Math placement test) Descriptive statistics; introduction to correlational analysis and regression; sampling techniques and statistical inference; applications of simple and factorial design analysis of variance and other parametric and nonparametric hypothesis testing in the behavioral sciences.

Psy 3020 Statistical Methods (A-F only; prereq 1003 or instr consent) Physiological basis of behavior, including central and peripheral nervous systems, sensory processes as they relate to perception, cognition, emotion, motivation, intelligence, and learning. Same as Campus Bulletin

Psy 3081 History and Systems of Psychology (A-F only; prereq 1003 or instructor consent) Survey of historical development and current status of contemporary systems and theories in psychology.

Psy 3524 Basic Helping Skills (A-F only; prereq 1003 or instr consent) Principles and processes of interaction in groups; structure and functioning of groups; leadership, communication, decision making; social influence; aspects of sensitivity and framework, etiology, risk and protective factors, and treatment. Ethical considerations, research methodology, and diversity considerations in child clinical psychology will also be covered.

Psy 3122 Child and Adolescent Abnormal Psychology (A-F; prereq 1003, 2021) Overview of psychological disorders common among children and adolescents, including theoretical approaches, diagnostic criteria, developmental trajectory and framework, etiology, risk and protective factors, and treatment. Ethical considerations, research methodology, and diversity considerations in child clinical psychology will also be covered.

Psy 3123 Psychology of Drug Use (A-F only; prereq 1003 or instructor consent) Basic understanding of drug effects: tolerance and withdrawal; commonality among drugs of abuse; how psychoactive chemicals and selected therapeutic drugs are thought to work; reward centers in brain.

Psy 3215 Topics in Human Sexuality (A-F only; prereq 1003 or instructor consent) Basic understanding of drug effects: tolerance and withdrawal; commonality among drugs of abuse; how psychoactive chemicals and selected therapeutic drugs are thought to work; reward centers in brain.
**University of Minnesota – Class Schedule for Duluth Campus**

**Summer 2015**

Course meets in an online learning environment from May 18 to June 5, 2015, with instruction taking place in class on the following Tuesdays, May 19, May 26 and June 2, 2015.

**SOPED 3109 Working with Challenging Behavior in Young Children**
(Competency A: Only: prereq Admission to the unified early childhood studies program)

Provides information needed to evaluate and implement behavior change programs that are appropriate for young children who exhibit challenging behaviors. A key element will be functional assessment procedures and a range of preventative behavioral interventions.

**SPEd 4250 Foundations of Autism Spectrum Disorders**
(Competency A: Only; Credit will not be granted if credit has been received for: SPRD 5295; prereq: No Grad cr)

Includes history, definitions, assessment, characteristics, legal aspects, varying perspectives, and etiology of the Autism Spectrum Disorders.

**SPEd 4250 Foundations of Autism Spectrum Disorders - May Session**
(Competency A: Only; Credit will not be granted if credit has been received for: SPRD 5295; prereq: No Grad cr)

Course will meet in an online learning environment.

**SPEd 4343 Foundations in Special Education**
(Competency A: Only; Credit will not be granted if credit has been received for: SPRD 5433; prereq Min 45 cr, postbacc grad or spec minor, no grad credit)

Overview of children with disabilities. Special emphasis will be placed on characteristics of exceptional children, the legal aspects of educating students with disabilities, and assessment, instructional, and collaborative strategies.

**SPEd 4345 Parent and Professional Communication and Collaboration**
(Competency A: Only; Credit will not be granted if credit has been received for: SPRD 5433; prereq 4433, 4470, postbacc or spec minor or instructor consent, no grad credit)

Course will meet in an online learning environment.

**SPEd 5250 Foundations of Autism Spectrum Disorders**
(Competency A: Only; Credit will not be granted if credit has been received for: SPRD 4250; prereq Admitted to unified early childhood studies major or instructor consent)

Course will meet in an online learning environment.

**SPEd 5280 Assessment of Students with Autism Spectrum Disorders**
(Competency A: Only; prereq 4250, Instructor consent)

This course will focus on assessment procedures used by practitioners in the field of special education - specifically in Autism. Students will learn a variety of standardized and informal assessment measures, referral, evaluation, planning, and programming. Students will also learn to interpret and integrate evaluation results in the planning and programming process in working with students with Autism.
SpEd 5361 Characteristics of Developmental Disabilities (A-F only; prereq Departmental consent)
Overview of children with moderate to severe developmental disabilities. Special emphasis will be placed on characteristics, etiology, implications of medical conditions, and the developmental aspects of educating students with developmental disabilities. Assessment, Instructional, and collaborative strategies will be introduced.

SpEd 5435 Parent and Professional Communication and Collaboration
(Credit will not be granted if credit has been received for: SPED 4435; prereq 4433 or 5433, postbac grad or instructor consent)
Group process, problem solving, decision making, collaboration, and teamwork applied to the special education process. Techniques for working with parents, professionals, and community agencies when planning and implementing Individualized Educational Plans. Because this course is taught concurrently with 4433, it will require one or more of the following: paper or project.

Th 5997 Internship in Professional Theatre
(S-N only; max crs 12; 12 repeats allowed; prereq department approval; 1 cr for each 45 hrs work)
Internship with a cooperating professional, commercial, or repertory theatre.

218-726-8892
http://www.d.umn.edu/medweb/toxicology/

Medical School - Duluth Campus

Medical Research (Txcl)

Directed Studies, Limited to 5; Harvey, Mark A, 1-3 cr

Urs 3097 Internship in Urban and Regional Studies
(S-N; max crs 8; 8 repeats allowed; prereq URS major, jr or sr, instructor consent)
Scheduled assignments with direct supervision in public agencies or relevant private firms.

Wrs 8060 Directed Studies in Water Resources Science
(NGA; max crs 6; 6 repeats allowed; prereq instructor consent)
Directed studies in water resources science.

Wrs 8333 FTE: Master’s
(NGA; prereq Master’s student, adviser and DGS consent) (No description)

Wrs 8444 FTE: Doctoral
(NGA; prereq Doctoral student, adviser and DGS consent) (No description)

Wrs 8666 Doctoral Pre-Thesis Credits
(NGA; 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)) (No description)

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

Urb 329 Clin, 123 University Drive, College of Liberal Arts, Duluth, MN 55812-3011
218-726-6300
http://www.d.umn.edu/go/College of Liberal Arts

Statistics (Stat)

Stat 3411 Engineering Statistics
(A-F only; prereq MATH 2297 with a grade of C- or better, cannot be applied to a math or statistics major)
Statistical considerations in data collection and experimentation. Descriptive statistics, least squares, elementary probability distributions, confidence intervals, significance tests, and analysis of variance as applied analysis of engineering data.

Stat 3611 Introduction to Probability and Statistics
(A-F only; prereq A grade of at least C- in Math 1290 or Math 1296)
Basic probability, including combinatorial methods, random variables, mathematical expectation, Binomial, normal, and other standard distributions. Moment-generating functions. Basic statistics, including descriptive statistics and sampling distributions. Estimation and statistical hypothesis testing.

87644 --001 LEC, 05/18-06/15, instruction mode: Classroom, Limited to 40, Song, Min, 3 cr

Summer Session

Theatre (Th)

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

School of Fine Arts

May Session

Th 1051 Introduction to Film
(A-F only; meets DLE req of Fine Arts; meets LE req of LE CAT9)
History and genres of film; how movies are made. Watching and analyzing films and developing an articulate and discerning viewpoint. (2 hrs lect, 2.5 hrs lab)
87152 --001 LEC, 09/30-10/22, instruction mode: Classroom, Limited to 20; Isbell, Tom, K 3 cr

Th 1451 Stage Makeup
(A-F only; prereq 2001 or 1801 or instructor consent)
Introduction to principles and materials of stage makeup and their application in developing a character makeup for theatrical productions.

87346 --001 LEC, 01/00-01/25, instruction mode: Classroom, Limited to 15; Dennis, Patricia, 3 cr

Summer Session

Th 5991 Independent Study in Theatre

This information is accurate as of: 03/02/2015
University of Minnesota – Class Schedule for Duluth Campus

Summer 2015

Writ 5591; max crs 6; prereq instructor consent, no grad credit

Practical writing experience with a media organization, publisher, business, or government agency.

Students choose projects with their instructor.

Writ 4591; -001 FWK, 05/04/15-05/09/15, instruction mode: Independent/Directed Studies, Limited to 5; Hatchet, John, 1-3 cr

Writ 4591; -001 FWK, 05/04/15-05/09/15, instruction mode: Independent/Directed Studies, Limited to 5; Hatchet, John, 1-3 cr

Writ 5197; max crs 3; 3 repeats allowed; prereq instructor consent, Coll Grad or Grad student

Practical writing experience with a media organization, publisher, business, or government agency.

Writ 3110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.

Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

Writ 5110; max crs 3; 6 repeats allowed; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of: Advanced Writing, Social Sciences

Writ 3110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.

Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

Writ 5110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.

Writ 3110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.

Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

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Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

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Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

Writ 5110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.

Writ 5110; -001 LEC, 09:30am-10:45am MTWTh, SBE 50, instruction mode: Classroom, Limited to 25; gibbins, crystal spring, 3 cr

Writ 5110; max crs 6; prereq instructor consent, no grad credit

A minimum GPA of 2.5 is required to enroll in online sections of Advanced Writing.
Writ 8994 Directed Research in Writing Studies
(A-F only; max crs 3; 3 repeats allowed; prereq Credit will not be granted if already received for Comp 8994, 8902; 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.
87384 -001 IND, 05/04-09/04/15, instruction mode: Independent/Directed Studies, Limited to 5; Beard, David Edward, 1-3 cr