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Duluth Degree Programs

General Information
At the University of Minnesota Duluth, the Graduate School offers programs for the master of arts in communication sciences and disorders, counseling psychology (emphasizes in college counseling, community counseling, and school counseling), and English (emphasizes in literary studies for concentrated study of literature, English studies, and publishing and print culture). Programs for the master of science are offered in applied and computational mathematics, biology, chemistry, computer science, engineering management, geology, and physics. In addition, the master of business administration, master of fine arts in art (emphasis in graphic design), master of liberal studies, master of music, and master of social work are offered.

All-University M.S./Ph.D. programs in toxicology and water resources science are offered jointly with the Twin Cities campus. In addition, several graduate programs operate at the University of Minnesota Duluth under the aegis of graduate programs on the Twin Cities campus. Cooperative programs offered at both the master’s and doctoral levels include biochemistry; microbiology, immunology and cancer biology; pharmacology, and cellular and integrative physiology. Students interested in these programs should see Degree Programs in this catalog.

All programs are under the jurisdiction of the Graduate School dean and have admission, candidacy, and degree requirements comparable to their counterpart programs on the Twin Cities campus. General Graduate School regulations, including those for minimum degree requirements, apply to programs offered on the Duluth campus (see General Information at the beginning of this catalog).

Financial Aid and Other Assistance
Assistantships are normally granted through individual departments subject to stipulations described in General Information at the beginning of this catalog. Information about these assistantships can be obtained by writing to the department director of graduate studies. With an assistantship appointment of 25 percent or more, hospitalization and medical insurance coverage is provided at no additional cost.

Some residence counseling positions may be available. For information, write to the Housing Office, 149 Lake Superior Hall, University of Minnesota Duluth, MN 55812.

Inquiries regarding loan funds, living accommodations, employment, and placement should be addressed to the Vice Chancellor for Academic Support and Student Life, 297 Darland Administration Building, University of Minnesota Duluth, MN 55812.

Key to Abbreviations

Faculty
Graduate faculty are listed at the beginning of each degree program. After the faculty name, the home department will be listed (unless the department is the same as the program name), followed by the graduate faculty status in the program. Professors emeriti are identified by “(emeritus).”

Membership Categories
Full Membership (FM)—Authorization to advise students at all levels, including the doctorate; serve as a thesis reviewer and an examiner on student examining committees, including service as chair of doctoral committees; and teach courses for graduate credit. In fields that also offer a professional doctorate, some full-member appointments may be restricted to the supervision of students seeking the professional degree.

Associate Membership (AM)—Authorization to advise students at the master’s and specialist certificate levels; serve as a thesis reviewer and an examiner on student examining committees at all levels, but not as chair of doctoral committees; co-advise doctoral students with a full member of the graduate faculty in the same field; and teach courses for graduate credit.

Examining Membership (E)—Authorization to serve as a thesis reviewer and an examiner on student examining committees at all levels, but not as chair; and teach courses for graduate credit.

Tests
The following test abbreviations appear throughout graduate program listings.

GMAT—Graduate Management Admission Test
GRE—Graduate Record Examination
MELAB—Michigan English Language Assessment Battery
TOEFL—Test of English as a Foreign Language

For more information about these individual tests, see page 9 in the General Information section.

Program Descriptions

Brief descriptions of the various degree programs are listed below. Course offerings are listed in the University of Minnesota Duluth Catalog. General information concerning graduate work on the Duluth campus may be obtained from the Graduate School Office—Duluth, 431 Darland Administration Building, University of Minnesota Duluth, MN 55812. Information is also available at <www.d.umn.edu/grad>.

Applied and Computational Mathematics

Contact Information—Department of Mathematics and Statistics, University of Minnesota Duluth, 140 Campus Center, 10 University Drive, Duluth, MN 55812 (218-726-8747; fax 218-726-8399; e-mail math@d.umn.edu; <www.d.umn.edu/math>.

Professor
Sabra S. Anderson, AM
Joseph A. Gallian, AM
Richard F. Green, AM
Barry R. James, AM
Kang Ling James, AM
Zhuangyi Liu, AM
Ronald R. Regal, AM
Harlan W. Stech, AM
Jiann Shiou Yang, Electrical and Computer Engineering, AM

Associate Professor
Guifua Fei, AM
Carmen M. Latterell, AM

Curriculum—This program is for those wishing to pursue careers that use applied mathematics and statistics in science, industry, business, and teaching, and for those wishing to go on for Ph.D. degrees in mathematics or statistics. It emphasizes the use of modern modeling techniques and computational methods, with areas of concentration available in continuous modeling, probability/statistics, and discrete mathematics. The faculty is drawn largely from the Department of Mathematics and Statistics, but includes members from the Departments of Computer Science, Electrical and Computer Engineering, and Chemical Engineering.

Program Descriptions

Brief descriptions of the various degree programs are listed below. Course offerings are listed in the University of Minnesota Duluth Catalog. General information concerning graduate work on the Duluth campus may be obtained from the Graduate School Office—Duluth, 431 Darland Administration Building, University of Minnesota Duluth, MN 55812. Information is also available at <www.d.umn.edu/grad>.
Admission Requirements—Applicants should have completed an undergraduate degree in mathematics or statistics. However, a student with a degree in another major, and with a substantial background in mathematics or statistics (e.g., computer science or engineering), may also qualify; students lacking certain prerequisites may make up deficiencies concurrently with graduate work.

GRE General Test scores are required. Students whose native language is not English must submit their TOEFL scores.

M.S. Degree Requirements
The M.S. is offered under both Plan A (with thesis) and Plan B (without thesis). All students must complete at least 33 credits, of which at least 17 must be from approved mathematics or statistics courses or seminars (including a graduate seminar and two of the three core courses) and 6 must be from a minor or related field (statistics is a related field). Plan A also requires 10 thesis credits; Plan B requires a 2-credit project and an additional 8 credits from approved graduate-level mathematics, statistics, or related-field courses. 4xxx courses (maximum of 8 credits) may be applied to the degree.

Language Requirements—None.

Final Exam—The final exams are written and oral.

Minor Requirements for Students Majoring in Other Fields—A master's minor requires 6 credits in approved Math or Stat courses.

Art—Graphic Design
Contact Information—Department of Art, University of Minnesota Duluth, 317 Humanities Building, 10 University Drive, Duluth, MN 55812 (218-726-7800; fax 218-726-6532; e-mail art@d.umn.edu; <www.d.umn.edu/art/design/mfa/>).

Professor
Gloria Brush, AM
Leif G. Brush, AM
James C. Kueg, AM
Thomas G. Kovacs, AM
Dean Lettenstrom, AM

Associate Professor
Alyce B. Coker, AM
Janice D. Knetz, AM
Robert A. Repinsky, AM
Robyn S. Roslak, AM

Assistant Professor
Alison J. Auehenkel, AM
Sarah Bauer, AM
Kenneth R. Fitzgerald, AM
Stephen J. Hilyard, AM
Catherine Jo Ishino, AM
Suzanne Szucs, AM

Lecturer
Martin D. Dewitt, AM

Curriculum—Graphic design is the manipulation of type and image for communication. Traditionally, this has meant design for the print medium, but the same

Biology
Contact Information—Department of Biology, University of Minnesota Duluth, 221 Life Science Building, 10 University Drive, Duluth, MN 55812 (218-726-6262; fax 218-726-8142; e-mail biol@d.umn.edu; <www.d.umn.edu/biology/gradprograms/gradprog.htm>).

Professor
Matthew Andrews, AM
Lester R. Drewes, Biochemistry and Molecular Biology, AM
Conrad E. Firling, AM
Stephen C. Fedman, AM
Muhammad R. U. Karim, AM
Andrew R. Klemmer, AM
Gerald J. Niemi, AM
John Pastor, AM
Arlen R. Severson, Anatomy and Cell Biology, AM
George J. Trachte, Pharmacology, AM

Associate Professor
Alice Adams, Medical Microbiology and Immunology, AM
Benjamin L. Clarke, Medical Microbiology and Immunology, AM
Stephen W. Downing, Anatomy and Cell Biology, AM
Donna J. Forbes, Anatomy and Cell Biology, AM
Cecilia Giulivi, Chemistry, AM
Randall E. Hicks, AM
Linda L. Holmstrand, AM
Jon M. Holy, Anatomy and Cell Biology, AM
Robert L. Lloyd, Psychology, AM
Merry Jo Oursler, AM
Lillian A. Repesh, Anatomy and Cell Biology, AM
David J. Schimpf, AM

Assistant Professor
Richard P. Axler, Natural Resources Research Institute, AM
Donna K. Brautram, AM
Arun Goyal, AM
Carol A. Johnston, Natural Resources Research Institute, AM
Allen Morenger, AM

Lecturer
Lyle J. Shannon, E

Teaching Specialist
JoAnna M. Hanowski, Natural Resources Research Institute, E

Post-Doctoral Associate
Malcolm T. Jones, Natural Resources Research Institute, E

Reseach Associate
George E. Host, Natural Resources Research Institute, AM
Lacinda B. Johnson, Natural Resources Research Institute, AM
Richard L. Leino, Anatomy and Cell Biology, AM
John C. Kingston, Natural Resources Research Institute, AM

Program Director
Thomas Malterer, Natural Resources Research Institute, AM
Carl R. Richards, Sea Grant, AM
Neil D. Nelson, Natural Resources Research Institute, E

Curriculum—The program offers study toward the M.S. under either Plan A or Plan B. Plan A students must select an area of concentration from among botany, cellular and physiological biology, environmental biology, or zoology.
Admission Requirements—A bachelor’s degree or equivalent from an accredited department in the life sciences or a related degree field, or one year of general biology and a one year course sequence in the physical/mathematical sciences. Students with deficiencies may be admitted with the provision that equivalent coursework or approved substitutions be completed during the first year of graduate study. As part of the their application materials, applicants must also submit recent GRE General Test scores.

Prior coursework and/or GRE scores are used to assess proficiency in the areas of general biology, genetics, cell biology, and ecology. Such proficiency is considered in the admission decision.

M.S. Degree Requirements
Plan A students must complete at least 14 course credits in the major, including at least 10 credits in courses approved for the selected area of concentration; at least 6 credits of approved coursework in one or more related fields or a minor, and at least 10 thesis credits. Plan B students must complete at least 14 course credits in the major, at least 6 credits of approved coursework in one or more related fields or a minor, and at least 10 credits of other approved coursework. Plan A requires a thesis; Plan B requires one to three Plan B projects. Inclusion of 4xxx courses on degree program forms is subject to program approval.

Language Requirements—None.
Final Exam—Students must present a department seminar and pass a final oral exam.

Minor Requirements for Students Majoring in Other Fields—Any course that may be used as credit for the major may be used as credit toward the minor.

Business Administration

Contact Information—M.B.A. Department, School of Business and Economics, University of Minnesota Duluth, 21 School of Business and Economics Building, 10 University Drive, Duluth, MN 55812 (218-726-8986; fax 218-726-6936; e-mail she@d.umn.edu; <www.d.umn.edu/depts/mba.html>).

Professor
Stephen B. Castleberry, Management Studies, AM
Thomas B. Duff, Finance and Management Information Sciences, AM
Ehsan H. Feroz, Accounting, AM
Richard W. Lichty, Economics, AM
Patricia A. Merrier, Finance and Management Information Sciences, AM
John W. Newstrom, Management Studies, AM
Jerrold M. Peterson, Economics, AM
Jon L. Pierce, Management Studies, AM
Raymond L. Raab, Economics, AM
Stephen A. Rubenfeld, Management Studies, AM

Donald N. Steinnes, Economics, AM
Shue Q. Wong, Finance and Management Information Sciences, AM

Associate Professor
Manjeet Dhaatt, Finance and Management Information Sciences, AM
Kjell R. Knudsen, Management Studies, AM
June F. Li, Accounting, AM
A. Maureen O'Brien, Economics, AM
Linda Rochford, Management Studies, AM
Alan C. Roline, Accounting, E
Rajiv Vaidyanathan, Management Studies, AM

Assistant Professor
Praveen Aggarwal, Management Studies, AM
Sanjay Goel, Management Studies, AM
Jerry Lin, Accounting, AM

Curriculum—The M.B.A. program meets the needs of residents of northeastern Minnesota and northwestern Wisconsin who are currently employed full time, pursuing professional managerial careers, or seeking general management education at the graduate level part-time. The M.B.A. core courses and electives are offered in the evening, with most courses meeting one evening per week. Full-time enrollment is possible, however, and a relatively small number of domestic and international students enroll full time.

Admission Requirements—Applicants must have a bachelor’s degree from an accredited college or university; completed prerequisite or foundation courses in accounting, economics, finance, production/operations, marketing, organizational management, and human resource management or be able to demonstrate knowledge and proficiency in each of these areas; and have an acceptable score on the GMAT or GRE, passed the Certified Professional Accountant (CPA) examination, or completed a graduate degree from an accredited college or university. In addition, international students must have an acceptable score on the TOEFL.

The bachelor’s degree may be in any field. However, students who have had little or no undergraduate or other education in business administration must complete prerequisite or foundation courses in the areas identified above before admission to the M.B.A. program. No graduate credit or credit toward M.B.A. program requirements is granted for prerequisite courses.

M.B.A. Plan B and Coursework Only Degree Requirements
The M.B.A. requires 32 credits. All students must complete six core and three support area courses, which provide exposure to financial reporting, analysis, and markets; the domestic and global environments of business and organizations; the creation and distribution of goods and services; and human behavior in organizations. Also required are a capstone strategic management course and a minimum of 2 credits of cross-functional experience selected from special topics, workshops, projects, or field study. Students then choose one of two options for completing an additional 6 credits of elective coursework: coursework only or field research (Plan B). M.B.A. students may include 4xxx courses for electives in their degree programs subject to M.B.A. director approval.

Language Requirements—None.
Final Exam—For Plan B, students meet with their faculty committee for a final review of their completed project. For coursework only, no final exam is required.

Chemistry

Contact Information—Department of Chemistry, 246 Chemistry Building, 111 University Drive, Duluth, MN 55812 (218-726-7212; fax 218-726-7394; e-mail chem@d.umn.edu; <www.d.umn.edu/chem/graduate/index.html>).

Professor
Paul M. Anderson, Biochemistry and Molecular Biology, FM
Ronald Caple, FM
Robert M. Carlson, FM
Lester R. Drewes, Biochemistry and Molecular Biology, AM
John F. Evans, AM
Donald K. Harriss, FM
Vincent R. Magnuson, AM
Donald P. Poe, AM
Joseph R. Prokaska, AM
James P. Richl, AM
Larry C. Thompson, FM
Bilin P. Tsai, AM
Kendall B. Wallace, AM
Viktor Zhadankin AM

Associate Professor
Benjamin L. Clarke, Medical Microbiology and Immunology, AM
Cecilia Giulivi, AM
Thomas E. Huntley, Biochemistry and Molecular Biology, AM
Paul Kiprof, AM
Keith B. Lodge, Chemical Engineering, AM
Paul D. Siders, AM

Assistant Professor
Annette L. Boman, Biochemistry and Molecular Biology, AM
Peter E. Kebbekus, AM
James McManus, AM

Curriculum—The M.S. program offers a broad-based education in chemistry that is well suited to students going on to Ph.D. programs, careers in industry, or professional schools. Both Plan A (with thesis) and Plan B (without thesis) are available. For Plan A, emphases include analytical, biological, inorganic, organic, and physical chemistry. The faculty includes members from the Departments of Chemistry and Chemical Engineering in the College of Science and Engineering and from the Departments of Biochemistry and Molecular Biology, and Microbiology and Immunology in the School of Medicine.

Admission Requirements—Applicants must have completed an undergraduate chemistry major, including an upper division course in inorganic chemistry, one year of physical chemistry, mathematics through calculus, and one year of college physics, preferably taught using calculus. Students lacking some of these prerequisites may make up deficiencies concurrently with graduate work.
M.S. Plan A and Plan B Degree Requirements
All students must complete 30 credits, including a minimum of 14 credits in the major (including four core courses) and 6 credits in a related field or minor. Plan A students must also register for 10 thesis credits; Plan B students must complete an additional 10 course credits and prepare three papers. Attendance and presentation at the chemistry seminar are required. Individual programs must be approved by the director of graduate studies in chemistry.

Language Requirements—None.
Final Exam—The final exam is oral.

Minor Requirements for Students
Majoring in Other Fields—A master’s minor requires a minimum of 6 credits in chemistry courses. Individual programs must be approved by the director of graduate studies in chemistry.

Communication Sciences and Disorders
Contact Information—Department of Communication Sciences and Disorders, University of Minnesota Duluth, 221 Bohannon Hall, 10 University Drive, Duluth, MN 55812 (218-726-7974; fax 218-726-8693; e-mail psy@d.umn.edu; <www.d.umn.edu/grad/educational.html>).

Professor
Paul N. Deuty, AM
Mark I. Mizuko, AM

Associate Professor
Faith C. Loven, AM
Cynthia S. Spillers, AM

Assistant Professor
Kent R. Brorson, AM
Amy Meredith, AM

Curriculum—The graduate program in communication sciences and disorders effectively combines academic and clinical endeavors to prepare students to become speech-language pathologists. The program places a major emphasis on the development of clinical skills, although students have the opportunity to engage in a wide variety of academic and research activities as well. The curriculum, which is based on five semesters of study, is accredited by the Council of Academic Accreditation (CAA) in speech-language pathology and also by the American Speech-Language Hearing Association (ASHA).

Admission Requirements—Applicants must have a bachelor’s degree in communication sciences and disorders. Three letters of recommendation evaluating the applicant’s scholarship and clinical potential are required. At least two letters should be from academic faculty familiar with the applicant. A personal statement of the applicant’s short- and long-term goals is also required.

M.A. Plan B Degree Requirements
The M.A. is offered under Plan B only. At least 43 credits are required, including 31 credits of required CSD courses, 2 credits of Plan B project (CSD 8099), 4 credits of internship, and at least 6 credits of approved courses (4xxx and higher) from related fields. All Plan B projects must be pre-approved by the student’s examining committee, which also must give final approval.

Language Requirements—None.
Final Exam—The final exam is oral.

Computer Science
Contact Information—Department of Computer Science, University of Minnesota Duluth, 320 Heller Hall, 10 University Drive, Duluth, MN 55812 (218-726-7678; fax 218-726-8240; e-mail cs@d.umn.edu; <www.d.umn.edu/cs/grad>).

Professor
Donald B. Crouch, AM
Marian Stachowicz, Electrical and Computer Engineering, AM
Harlan Streech, Mathematics and Statistics, AM

Associate Professor
Timothy R. Colburn, AM
Carolyn C. Crouch, AM
Linda L. Deneen, AM
Douglas, J. Dunham, AM
Richard F. Maclin, AM
Gary M. Shute, AM

Assistant Professor
Theodore D. Pedersen, AM
Christopher Price, AM
Maria Sosonkina, AM
C. Hudson Turner, AM

Curriculum—Computer science is a discipline that involves understanding the design of computers and computational processes. The discipline ranges from the theoretical study of algorithms to the design and implementation of software at the systems and applications levels. The M.S. is a two-year program that provides the necessary foundational studies for graduates planning to pursue either a Ph.D. in computer science or a career as a computer scientist in business or industry.

Admission Requirements—The program is for students with undergraduate degrees in computer science or computer engineering. These students should be able to enroll immediately in 8xxx computer science courses. Students with other backgrounds may be considered if they have completed the following courses or their equivalents: CS 1511-1521—Computer Science I-II; CS 2511—Software Development; CS 2521—Computer Organization; CS 4511—Automata, Computability, and Formal Languages; CS 4521—Advanced Data Structures and Algorithms; CS 5621—Computer Architecture; and CS 5631—Operating Systems. The appropriate math prerequisites, namely Math 2986-2977—Calculus I-II and Stat 3611—Introduction to Probability and Statistics are also required.

Students who fail to meet these requirements may be admitted provisionally and must complete specified courses before proceeding with their graduate work. The GRE General Test is required; the TOEFL is also required of international students.

M.S. Degree Requirements
The M.S. is offered under Plan A (thesis) and Plan B (non-thesis). At least 33 credits are required, including 16 credits from 8xxx courses in computer science, 1 credit of CS 8993—Seminar, and at least 6 credits from a minor or related field outside computer science. Plan A also requires 10 thesis credits and Plan B requires a minimum of 10 credits in additional computer science courses (5xxx or above). All courses are chosen in consultation with the student’s advisor, subject to approval by the director of graduate studies. 4xxx computer science courses may not be included in degree programs for the M.S. in computer science.

Language Requirements—None.
Final Exam—Students present a department colloquium, followed by an oral exam.

Minor Requirements for Students
Majoring in Other Fields—A minimum of 6 credits in computer science is required for a master’s minor.

Counseling Psychology
Contact Information—Department of Psychology, University of Minnesota Duluth, 320 Bohannon Hall, 10 University Drive, Duluth, MN 55812 (218-726-7117; fax 218-726-7186; e-mail psy@d.umn.edu; <www.d.umn.edu/grad/educational.html>).

Professor
Ajit K. Das, AM
Aydin Y. Durgunoglu, AM
Randall A. Gordon, AM
Bud A. McClure, AM
Kristelle E. Miller, AM
Uwe H. Stuecher, AM

Associate Professor
Helen M. Doane, AM
Eugene E. Grossman, AM
Jane C. Hovland, AM
Robert L. Lloyd, AM
Sandy Woolam, AM

Assistant Professor
Mark W. Olson, AM
Paula J. Pedersen-Randall, AM
Donald E Streufert, AM
Harlan Stech, Mathematics and Statistics, AM

Curriculum—The M.A. in counseling psychology is based on a developmental philosophy that encourages academic learning and personal growth. The overall emphasis is on the promotion of healthy psychological functioning and the prevention of psychological disturbances. A core curriculum provides theoretical frameworks and practice in counseling skills from which students can develop their unique strategies and pursue specialty training.
Three emphases for specialty training are offered: community counseling, college counseling, and school counseling. The community and school counseling emphases are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). Students select an emphasis during their second semester.

Community counseling students may elect coursework that provides a foundation for pursuing licensure as a psychological practitioner in Minnesota or as a licensed professional counselor in many other states. The college counseling emphasis offers preparation for student support and development in colleges and universities. The school counseling emphasis allows for specialization in grades K-12.

Admission Requirements—A minimum undergraduate GPA of 3.00 on a 4.00 point scale and a minimum of 6 credits in psychology or education, including an undergraduate inferential statistics course are required. Applicants must submit scores from the GRE General Test with minimum scores of 350 in the verbal and quantitative sections; scores of 500 in both sections are preferred. A written statement providing evidence of social service or teaching experience and three recommendation forms are required. Applications should be submitted by March 15 for consideration for admission in the following fall semester. Applications submitted after March 15 will be considered only if space is available.

M.A. Plan B Degree Requirements
The M.A. requires 50 credits, including 31 counseling core credits, 13 professional emphasis credits, and 6 credits in a minor or related field. Counseling core credits include a 4-credit Plan B research paper (Psy 5061, 5062—Research Problems I, II) with an oral exam; professional emphasis credits include a semester practicum (2 credits) and a nine-month internship (23 hours per week, 6 credits). Core credits must include Psy 5051, 5052, 5061, 5062, 5121, 5501, 5502, 5601, 5603, 5611, and 5651. Professional emphasis credits are as follows: community counseling—Psy 5125, 8001, 8101, 8197, 8297; college counseling—Psy 8003, 8101, 8397, 8497, 3-credit elective; school counseling—Psy 5201, 8005, 8101, 8597 or 8797, 8697 or 8897.

Students pursuing licensure in Minnesota as psychological practitioners or professional school counselors must complete specified courses, which can be completed as major or related field requirements. Students should consult with the program for current specified courses, as requirements are determined by state agencies and may change.

Students may also complete a national counselor exam, such as the National Counselor Examination for Licensure and Certification (NCE), before graduation.

Language Requirements—None.

Final Exam—A final oral exam on the Plan B paper is required. Students must also take a comprehensive exam.

Minor Requirements for Students
Majoring in Other Fields—A master’s minor requires 8 credits of psychology and is structured to include a research component, counseling orientation, and an elective. Interested students should contact the director of graduate studies in counseling psychology.

Engineering Management

Contact Information—Department of Industrial Engineering, University of Minnesota Duluth, 229 Voss-Kovach Hall, 10 University Drive, Duluth, MN 55812 (218-726-8117; fax 218-726-8581; e-mail msem@d.umn.edu; <http://ie.d.umn.edu/ MSEM/>).

Professor
L. Alden Kendall, AM

Associate Professor
R. G. Rosandich, AM
D. A. Wyrick, AM

Curriculum—The master of science in engineering management program develops the concepts of managing technology, people, and information for persons with a background in engineering. People in engineering positions often manage technical projects of varying size and complexity, and a graduate program in engineering management provides excellent preparation.

Admission Requirements—All applicants must meet the general admission requirements to the Graduate School of the University of Minnesota. Applicants should have completed an undergraduate degree in an engineering discipline. However, an applicant with a degree in another technical major and with a substantial background in engineering may qualify. Such students may be admitted on a case-by-case basis and will be asked to submit documentation that substantiates their engineering and technology experience and responsibilities.

M.S.E.M. Plan B Degree Requirements
Students must complete 30 credits, including a minimum of 15 credits in the major, a 3-credit capstone project course, and 6 credits in a related field or minor (business administration). Students must complete an additional 6 credits in engineering management or other electives, whichever best fits the needs of the student. The capstone project course requires a formal report and oral presentation. Individual programs are designed to best serve the interest of the student. The director of graduate studies must approve the use of 4xxx courses in degree programs.

Language Requirements—None.

Final Exam—The final exam is a formal report and oral presentation in EMgt 8310.

Minor Requirements for Students
Majoring in Other Fields—A master’s minor requires 6 credits in engineering management courses. Individual programs must be approved by the director of graduate studies in engineering management.

English

Contact Information—Department of English, University of Minnesota Duluth, 410 Humanities Building, 10 University Drive, Duluth, MN 55812 (218-726-8228; fax 218-726-6882; e-mail englma@d.umn.edu; <www.d.umn.edu/engl/englishgrad/index.htm>).

Professor
Stephen Adams, AM
Thomas D. Bacig, Sociology-Anthropology, AM
Klaus P. Janfousky, AM
Michael D. Linn, Composition, AM
Joseph C. Malofo, AM
Linda Miller-Cleary, AM
Kathryn L. Riley, Composition, AM

Associate Professor
Katherine L. Basham, AM
Carol A. Bock, AM
Martin F. Bock, AM
Thomas J. Farrell, Composition, AM
Eleanor M. Hoffman, Composition, AM
Roger C. Lips, AM
Kenneth C. Risdon, Composition, AM

Assistant Professor
Paul Cannan, AM
Jill D. Jenson, Composition, AM
Kathleen Maurer, Composition, AM
Krista Sue-Lo Wu, AM

Curriculum—The M.A program offers courses in English, Irish, and American literature; creative writing; linguistics; composition and rhetorical theory; book history; publishing; and English education. The program has three master’s emphases: a literary studies emphasis for concentrated study of literature, an interdisciplinary emphasis in English studies, and an emphasis in publishing print culture.

Admission Requirements—Students applying to this program must submit GRE General Test scores, two writing samples such as course papers, and three letters of recommendation. International applicants must submit TOEFL scores of at least 600 (written test). Entering students should have completed at least 30 credits in English (these may include credits in literature, language, and advanced composition), including 20 credits of upper division English courses that offer broad coverage of English and American literature and at least one course in English language or English linguistics. Any deficiencies will be determined by the director of graduate studies in consultation with the graduate committee. Certain course prerequisites may be taken concurrently with graduate work and may be applied toward degree requirements.
Duluth Degree Programs

M.A. Plan B Degree Requirements

Literary Studies Emphasis (Plan B): a minimum of 30 credits, including at least 24 credits in the major, 6-8 credits in a related field, and two Plan B projects.

English Studies Emphasis (Plan B): a minimum of 31 credits, including at least 25 credits in the major, distributed in literature, linguistics, and composition/ rhetoric; 6-8 credits in a related field; and two Plan B projects.

Publishing and Print Culture (Plan B): a minimum of 31 credits, including at least 25 credits in the major, distributed in literature, publishing, and print culture; 6-8 credits in a related field; and two Plan B projects.

4xxx courses in English, composition, and linguistics may not be included on degree program forms in English. 4xxx courses are permitted in the related field.

Language Requirements—The emphases in literary studies and publishing and print culture require a reading knowledge of Latin, Greek, French, Italian, Spanish, Russian, or another approved language.

The English studies emphasis requires certification of a reading knowledge of a foreign language appropriate to the candidate’s area of study and approved by the English graduate committee or completion of at least 6 course credits beyond the 31 required credits. Candidates, whose professional objectives are best served by completing the additional 6 credits, select courses from the related field.

Minor Requirements for Students Majoring in Other Fields—At least 8 credits in English, composition, and/or linguistics are required for a master’s minor.

Geology

Contact Information—Department of Geological Sciences, University of Minnesota Duluth, 229 Heller Hall, 10 University Drive, Duluth, MN 55812 (218-726-7238; fax 218-726-8275; e-mail geol@d.umn.edu; <http://www.d.umn.edu/geology/main/program.html>.

Regents Professor
George R. Rapp, AM

Professor
James Grant, AM
Timothy B. Holst, AM
Thomas C. Johnson, AM
Charles L. Matsch, AM

James D. Miller, Jr., AM
Ronald L. Morton, AM
Richard W. Ojakangas, AM

Associate Professor
Erik T. Brown, AM
Howard D. Moores, AM
Penelope Morton, AM
Nigel J. Wartus, AM

Assistant Professor
Keith A. Brugger, AM
Christian D. Gallup, AM
Richard D. Ricketts, AM
Steven P. Sternberg, Chemical Engineering, AM
John B. Swenson, AM

Adjunct Assistant Professor
Glenn L. Evavold, AM

Senior Research Associate
Carol A. Johnston, Natural Resources Research Institute, AM

Research Associate
John C. Kingston Natural Resources Research Institute, AM

Curriculum—The M.S. program in geology encompasses areas of interest in hard-rock geology (igneous, metamorphic, and sedimentary petrology; economic geology; and Precambrian geology), Quaternary geology, hydrogeology, geoarchaeology, and physical and chemical limnology. Several of these areas are strengthened by collaboration with the Great Lakes Observatory, the Natural Resources Research Institute, and the Geoarchaeology Laboratory.

Admission Requirements—Applicants must have completed an undergraduate major in geology, geophysics, or related earth science with one year each of college mathematics (including calculus), chemistry, and physics. A full-time geological field course of at least five weeks is also required, as are GRE General Test scores.

M.S. Degree Requirements

The M.S. is offered under Plan A (thesis) and Plan B (non-thesis). Courses are selected with approval of the student’s adviser and the director of graduate studies; also, no more than 25 percent of the courses may be 4xxx except by their approval. For both plans, a written candidacy exam during the second semester of residency is required.

Plan A requires 30 credits, including 14 course credits in the major, 6 course credits in a minor or related field (which may be taken within geology if they are in an area different from the student’s principal area), and 10 thesis credits. All courses must be 4xxx or 5xxx. Plan B requires 30 credits in approved courses, including three Plan B papers. Inclusion of 4xxx courses on degree program forms is subject to adviser and director of graduate studies approval.

Language Requirements—None.

Final Exam—The final exam is oral.

Minor Requirements for Students Majoring in Other Fields—A master’s minor requires a minimum of 6 credits and is decided in consultation with the student’s adviser and the director of graduate studies in geology.

Liberal Studies

Contact Information—College of Liberal Arts, M.L.S. Program, University of Minnesota Duluth, 494 Humanities Building, 10 University Drive, Duluth, MN 55812 (218-726-8149; fax 218-726-6386; e-mail caker@d.umn.edu; <http://www.d.umn.edu/ce/program_guide/mls/mls.html>.

Professor
Stephen Adams, English, AM
Thomas D. Bacig, Sociology-Anthropology, AM
Elizabeth Bartlett, Women’s Studies, AM
James H. Fetzer, Philosophy, AM
William Fleischman, Sociology-Anthropology, AM
Thomas F. Hedn, Art, AM
Tom K. Isbell, Theatre, AM
Thomas F. Jordan, Physics, AM
Andrew R. Klemmer, Biology, AM
Lawrence Knopp, Geography, AM
Charles L. Matsch, Geological Sciences, AM
Kathryn Riley, Composition, AM
Fred E. Schroeder (emeritus), Humanities, AM
Richard A. Seybolt, Foreign Languages and Literatures, AM
David M. Smith, Sociology-Anthropology, AM
Neil T. Storch, History, AM
Judith Ann Trolander, History, AM

Associate Professor
Stephan P. Chilton, Political Science, AM
Eve Browning Cole, Philosophy, AM
Jonathan B. Conant, Foreign Languages and Literatures, AM
Robert H. Evans, Philosophy, AM
Scott Freundschuh, Geography, AM
Tinene A. Ritmester, Women’s Studies, AM
Robyn S. Roslak, Art, AM

Assistant Professor
John Bower, Sociology-Anthropology AM

Curriculum—The interdisciplinary M.L.S. is a community outreach program that provides citizens with the opportunity to return to higher education to broaden their intellectual horizons without having to focus on specific professional goals. Two emphases include the traditional M.L.S. or an ecology, economics, and ethics emphasis. In both emphases, students write one to three papers exploring in depth an interdisciplinary topic.

Admission Requirements—Applicants must have a bachelor’s degree from a recognized college or university with a 3.00 GPA. The application should include three letters of recommendation and a thoughtfully composed letter stating, in narrative form, reasons for wishing to pursue the M.L.S. and describing education and career experiences. This letter should be addressed to the director of graduate studies in the UMD Graduate School Office.

M.L.S. Plan B Degree Requirements

The M.L.S. is offered under Plan B only. Students in either emphasis must complete 32 credits, including at least 4 credits of IS 8001—Introduction to Liberal Studies. Those students electing the traditional emphasis must also take 4 credits of IS 8501—Seminar: Ethics and the Human Condition and 24 elective credits. Students selecting the ecology, economics, and ethics emphasis must also take 4 credits of IS 8250—
Ecological Economics, 4 credits of IS 8502—Ecology, Economics, and Ethics, and an additional 20 credits of electives. One to three Plan B papers are required in both emphases.

Language Requirements—None.

Final Exam—The final exam is oral.

Linguistics

Contact Information—Program in Linguistics, University of Minnesota Duluth, 457 Humanities Building, 10 University Drive, Duluth, MN 55812 (218-726-7951; fax 218-726-8109; e-mail jconant@d.umn.edu; <www.d.umn.edu/ling>).

Professor
Michael D. Linn, Composition, E
Kathryn L. Riley, Composition, E

Associate Professor
Jonathan B. Conant, Foreign Languages and Literatures, E

Curriculum—Linguistics, offered interdepartmentally and through the Department of Interdisciplinary Programs, may be elected by graduate students as a related field, or with approval of the director of graduate studies of the major, as a designated minor.

Freestanding Minor Requirements
The minor in linguistics requires a minimum of 12 credits selected from Engl 5811—Introduction to Modern English (4 cr), Engl 5821—History of the English Language (4 cr), Ling 5802—Applied Linguistics (4 cr), Ling 5852—Practicum in Teaching Linguistics (3 cr), and Ling 8500—Graduate Seminar (3 cr).

Music

Contact Information—Department of Music, University of Minnesota Duluth, 231 Humanities Building, 10 University Drive, Duluth, MN 55812 (218-726-8207; fax 218-726-8210; e-mail mu@d.umn.edu; <www.d.umn.edu/music/degrees/degrees.html>).

Professor
Ann C. Anderson, E
Judith Ann Kritzmuire, AM
Thomas J. Wegren, E
Robert E. Williams (emeritus), AM
Stanley R. Wold, AM

Associate Professor
George Lynn Hitt (emeritus), E
David J. Schmalenberger, E
Mark E. Whitlock, AM

Assistant Professor
Daniel G. Lipori, AM
Justin H. Rubin, AM
Theodore A. Schoen, AM
Tina L. Thiesen-Gaffey, E
Ramón F. Vasquez, E

Other
Christopher Oberholtzer, E
Michael A. Pagan, E

Curriculum—The M.M. program offers students an opportunity to acquire advanced understanding and skill in music education theory and practice and musical performance. A course of study is designed to meet the interests and objectives of the student.

Admission Requirements—Applicants must have an undergraduate degree in music and have applied to the University of Minnesota Graduate School. In addition, the following must be submitted for review by the music graduate committee: 1) Department of Music Graduate Study Application; 2) sample of professional writing (a three- to five-page paper addressing current issues in music education); 3) two letters of reference from professional colleagues and/or supervisors describing the candidate’s potential for success in the graduate music program; and 4) an entrance performance audition on the major instrument or a videotape of classroom teaching or conducting.

M.M. Plan B Degree Requirements
The M.M. in music education and performance emphases each requires 30 credits. The music education emphasis requires 14 credits in music education/education, 8 credits in the related field of music, 6 credits for the Plan B paper, and 2 elective credits. The performance emphasis requires 14 credits in performance/pedagogy, 8 credits in music theory and literature, 6 credits in research/foundations courses, 2 elective credits and a solo recital.

Language Requirements—None.

Final Exam—A comprehensive written and oral final are required.

Physics

Contact Information—Department of Physics, University of Minnesota Duluth, 371 Marshall W. Alworth Hall, 10 University Drive, Duluth, MN 55812 (218-726-7594; fax 218-726-6942; e-mail phys@d.umn.edu; <www.d.umn.edu/~jmaps/gradpgm.html>).

Professor
John R. Hille, AM
Thomas F. Jordan, AM
Michael Sydor, AM

Associate Professor
Bo R. Casserberg, AM
John L. Kroening, AM

Assistant Professor
Alec T. Habig, AM
Jonathan Maps, AM
Brian D. May, AM
Elise A. Ralph, AM
Meng Zhou, AM

Curriculum—The M.S. program provides grounding in the fundamentals of physics, combined with significant research involvement. The primary areas of research include computational physics, experimental work in condensed-matter physics, high-energy neutrino physics, and observational and theoretical work in physical limnology.

Admission Requirements—An undergraduate degree in physics or the equivalent is required.

M.S. Degree Requirements
The M.S. is offered under both Plan A and Plan B. All students take 14 credits in a common core of courses (Phys 5501, 5511, 5521, 5522, and 2 credits in 5090) and 6 credits in a minor or related fields. Plan A also requires 10 thesis credits; Plan B requires one or more projects requiring a minimum of 120 hours work total, preparation of a written report for each project, and 10 additional course credits in physics. 4xxx courses may be included if appropriate and if approved for graduate credit; for distinctly interdisciplinary programs, the courses may be outside physics. In all cases, the overall plan of study and selection of elective courses must form a coherent program and be approved by the director of graduate studies.

Language Requirements—None.

Final Exam—The final exam is oral.

Minor Requirements for Students Majoring in Other Fields—A master’s minor requires 6 credits, of which no more than 1 credit can be from Phys 5090.

Social Work

Contact Information—Department of Social Work, University of Minnesota Duluth, 220 Bohannon Hall, 10 University Drive, Duluth, MN 55812 (218-726-7245; fax 218-726-7185; e-mail sw@d.umn.edu; <www.d.umn.edu/sw/msw.html>).

Professor
Dennis R. Falk, AM
Joyce M. Kramer, AM
Melanie F. Shepard, AM

Associate Professor
Priscilla A. Day, AM
Kathleen E. Nuccio, AM
R. Michael Raschick, AM

Assistant Professor
Donald Carpenter, AM

Instructor
Lila George, AM

Curriculum—The M.S.W. program offers a concentration in advanced generalist practice. The curriculum prepares students to practice at the direct service, program, and community levels of intervention. Graduates undertake a variety of professional social work functions, including counselor, community organizer, case manager, educator, and administrator. The curriculum has a special focus on services to American Indians and their communities. The M.S.W. program is accredited by the Council on Social Work Education.

Admission Requirements—1) A bachelor’s degree from a regionally accredited college or university is required. The bachelor’s degree should include a solid background in the liberal arts, as evidenced on the transcript.
Duluth Degree Programs

by courses in the arts, humanities, and behavioral and social sciences. Applicants should be knowledgeable about diverse cultures, social problems, social conditions, and the social, psychological, and biological determinants of human behavior. Applicants with undergraduate majors in social work or a related field or discipline are given preference over applicants with other majors.  
2) Completion of at least 18 credits in two or more social science disciplines (e.g., sociology, psychology, economics, anthropology, political science).  
3) Strong academic preparation as demonstrated by undergraduate GPA.  
4) Demonstrated interest in becoming a social worker. Preference is given to applicants with professional experience in human service settings, particularly when this experience involves working with underrepresented and protected classes.

Enrollment Prerequisites—Admitted applicants must complete a college-level biology course with content on human anatomical and physiological development and a college-level statistics course. The biology course must be completed before registering for the first semester in the M.S.W. program, and the statistics course must be completed before registering for the first research course. Interested persons can apply and be admitted before completing the enrollment prerequisites.  
Advanced Standing—Applicants with a bachelor of social work degree from a program accredited by the Council on Social Work Education may apply for admission to the advanced standing program. All other applicants are ineligible for this program.

M.S.W. Plan B Degree Requirements  
The M.S.W., which is offered under Plan B only, requires 51 credits (34 credits for students admitted with advanced standing), including a minimum of 41 credits in social work courses (28 for students with advanced standing), at least 2 credits in a related field, and a master’s research (Plan B) project. The program requires two field placements in human service agencies (one field placement for students with advanced standing). A minimum GPA of 3.00 for courses included in the degree program is required. A level of personal and professional competence, as indicated by course and field placement evaluations, is required.

Language Requirements—None.  
Final Exam—The final exam is oral, except for students who are over 250 miles from Duluth. They may complete an oral or written exam using distance technology.

Related Fields

Graduate degree programs do not exist in the following fields. However, students may earn graduate credit in courses related to their program and use faculty members on their examining committees from these fields. For graduate courses, see the Courses section of this catalog.

American Indian Studies

Professor  
John G. Red Horse, E  
Assistant Professor  
Mark J. Gonzalez, E

American Studies

Professor  
Thomas E. Bacig, Sociology-Anthropology, E

Anthropology

Professor  
Linda S. Belote, E  
Michael D. Linn, Composition, E  
Timothy G. Roufs, E  
David M. Smith, E  
Associate Professor  
Sharon R. Kemp, E

Art History

Professor  
Thomas P. Hedin, E  
Associate Professor  
Robyn S. Roslak, E

Behavioral Sciences

Professor  
Barbara A. Elliott, E  
Frederic W. Hafferty, E  
Associate Professor  
James G. Bolger, E  
Gary L. Davis, E  
Richard Hoffman, E  
Assistant Professor  
Mustafa al’Absi, E

Chemical Engineering

Associate Professor  
Richard A. Davis, E  
Keith B. Lodge, E

Communication

Professor  
Mike Sunnafrank, E  
Associate Professor  
Virginia T. Katz, E  
Linda T. Krug, E  
Elizabeth J. Nelson, E  
Gerald L. Pepper, E  
Deborah Petersen-Perlman, E  
Assistant Professor  
Gregory S. Larson, E  
Artemio Ramirez, E

Education

Professor  
Thomas D. Bacig, Sociology-Anthropology, E  
Thomas G. Boman, E  
Helen L. Carlson, E  
Ajit K. Das, Psychology, E  
Denis R. Falk, Social Work, E  
Joan M. Karp, E  
David A. McCarthy, E  
Linda Miller-Cleary, English, E  
Associate Professor  
Francis Gulbrandsen, E  
Donald Haynes, Health, Physical Education, and Recreation, E  
Nedra A. Hazareesingh, E  
John R. Keener, Health, Physical Education, and Recreation, E  
Georgia L. Keeney, Health, Physical Education, and Recreation, E  
June E. Kreutzkampf, E  
Edmond F. Lundstrom, Health, Physical Education, and Recreation, E  
Bruce H. Munson, E  
Thomas D. Peacock, E  
Elizabeth P. Quintero, E  
Helen Rallis, E  
Mary Kay Rummel, E  
Assistant Professor  
Kenneth Gilbertson, Health, Physical Education, and Recreation, E  
Noell W. Reinhiller, E
### Electrical and Computer Engineering

**Professor**
- Stanley G. Burns, E
- Nazmi M. Shehadeh, E
- Marian Stachowicz, E
- Jann Shiou Yang, E

**Associate Professor**
- Christopher R. Carroll, E
- Taek Mu Kwon, E

**Assistant Professor**
- Rocio Alba-Flores, E
- Mohammed A. Hasan, E
- Fernando Rio-Gutierrez, E
- George Lee Zimmerman, E

### Family Life

**Associate Professor**
- Terrie M. Shannon, Education, E
- Janine A. Watts, Psychology, E

### French

**Associate Professor**
- Yolande J. Jenny, Foreign Languages and Literatures, E

### Geography

**Professor**
- Lawrence M. Knopp, E

**Associate Professor**
- Scott M. Freundschuh, E

**Assistant Professor**
- Patrice Farrell, E
- Gordon L. Levine, E
- Maureen Kim L. Siobh, E
- Tongxin Zhu, E

### German

**Associate Professor**
- Jonathan B. Conant, Foreign Languages and Literatures, E

### Health Education

**Professor**
- Eugene S. Ley, Health, Physical Education, and Recreation, E

**Associate Professor**
- Donald K. Haynes, Health, Physical Education, and Recreation, E
- Georgia L. Keeney, Health, Physical Education, and Recreation, E
- Edmond F. Lundstrom, Health, Physical Education, and Recreation, E

### History

**Professor**
- Ronald T. Marchese, E
- Neil T. Storch, E
- Judith A. Trolander, E

**Associate Professor**
- Alexis E. Pogorelskin, E
- Nkasa T. Yelengs, E

**Other**
- Dennis L. Anderson, E

### Humanities

**Professor**
- Thomas D. Bacig, Sociology-Anthropology, E
- Ronald T. Marchese, History, E

**Associate Professor**
- Thomas J. Farrell, Composition, E

### Industrial Engineering

**Professor**
- Bernard DeRubeis, E
- Mark A. Fugelso, E
- Thys B. Johnson (emeritus), E
- L. Alden Kendall, E
- Richard R. Lindeke, E

**Associate Professor**
- Hamid F. Fard, E
- Ryan G. Rosandich, E
- David A. Wyrick, E

**Assistant Professor**
- John C. Voss, E

### Philosophy

**Professor**
- James H. Fetzer, E
- David J. Mayo, E

**Associate Professor**
- David J. Cole, E
- Eve Browning Cole, E
- Robert H. Evans, E
- Richard H. Hudelson, E

### Physical Education

**Professor**
- Joann M. Johnson, E
- Eugene S. Ley, E

**Associate Professor**
- John R. Keener, E
- Mark Nierengarten, E

### Political Science

**Professor**
- Elizabeth Bartlett, Women’s Studies, E
- Geoffrey Paul Sharp, E

**Associate Professor**
- Stephen P. Chilton, E
- Craig H. Grau, E

**Assistant Professor**
- Martin A. Nie, E
- Bradley A. Thayer, E

### Recreation

**Associate Professor**
- Edmond F. Lundstrom, Health, Physical Education, and Recreation, E

### Sociology

**Professor**
- John A. Arthur, E
- William Fleischman, E
- J. Clark Laundergarn, E

**Associate Professor**
- Sheryl J. Grana, E
- John E. Hamlin, E
- Sharon F. Kemp, E
- Janelle L. Wilson, E

**Assistant Professor**
- Mitra C. Emaad, E

### Spanish

**Professor**
- Richard A. Seybolt, Foreign Languages and Literatures, E
- Eileen M. Zeitz, Foreign Languages and Literatures, E

### Special Education

**Professor**
- Joan M. Karp, Education, E
- Uwe H. Stuecher, Psychology, E

**Associate Professor**
- Clayton E. Keller, E

### Theatre

**Associate Professor**
- Ann A. Bergeron, E
- Jon M. Berry, E
- Patricia Dennis, E
- Mark A. Harvey, E
- Thomas K. Isbell, E
- Cathryn F. Ufema, E
- Arden W. Weaver, E

### Women’s Studies

**Professor**
- Elizabeth A. Bartlett, E

**Associate Professor**
- Helen M. Doane, Psychology, E
- Margaret N. Kamau, E
- Tineke A. Ritmeester, E