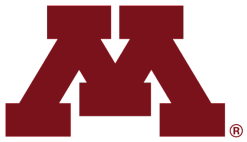

UNIVERSITY OF MINNESOTA
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University of Minnesota Duluth
2022-2023 Undergraduate Programs

This document serves as an official historical record for a specific period in time. The information found is subject to change without notice. Colleges and departments make changes to their degree requirements and course descriptions frequently. More information is available at catalogs.umn.edu.

For current information, refer to:

- Program search: z.umn.edu/publicprogramsearch
- Course search: z.umn.edu/publiccoursecatalog
- University policies: policy.umn.edu

University of Minnesota Duluth
1049 University Drive
Duluth, MN
55812

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Duluth Campus

African and African American Studies Minor

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

This minor is an interdisciplinary program designed to promote a vigorous understanding of the worldwide historical and current experience of African Americans and people of African descent. Through its pedagogical offerings, research activities, advocacy, and community and civic engagements, the program aims to promote awareness and the advancement of the cultures and institutions of African American and African cultural communities at the local, state, national, and international levels. The courses are structured to provide a vast array of interdisciplinary, intellectual, and academic approaches to research, interpretation, and the dissemination of the multifaceted experiences and realities of the total Black global experience. The program leads initiatives to develop a seamless and tightly woven cross-disciplinary pedagogical and scholastic structure focusing on the study of African American, African, and Caribbean community life and development in the United States and the world-at-large. The program, through courses, advising, seminars, lectures, and presentations, supports the academic and intellectual growth of students in an ever-increasing multicultural and diverse world.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (6 cr)

AAAS 1103 - Introduction to Africa [GLOBAL PER] (3.0 cr)
AAAS 1104 - Introduction to Black America [CDIVERSITY] (3.0 cr)

African and African American Studies Elective (3 cr)

AAAS 1101 - Introduction to Black Caribbean Studies [LE CAT] (3.0 cr)
or AAAS 1102 - Introduction to Atlantic Slave Trade [LE CAT, LECD C, CDIVERSITY] (3.0 cr)

Electives (9 cr)

One 3xxx level or higher course for at least 3 credits must be taken.
Take 3 or more course(s) from the following:

- AAAS 3005 - Roots and Rebellion: Study Abroad in Jamaica [GLOBAL PER] (3.0 cr)
- AAAS 3091 - Independent Study (1.0 - 3.0 cr)
- AAAS 3095 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
- AAAS 3304 - Social Inequalities in Education (3.0 cr)
- AAAS 3305 - African American Cinema (3.0 cr)
- CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
- ENGL 1583 - Introductory Study of Major Topics in Contemporary African Literature [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 3573 - Survey of African American Literature [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3574 - Reconstituting the Past in African Diaspora Literature (4.0 cr)
- HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
- HIST 3318 - Slavery, Lincoln and the Civil War [CDIVERSITY] (4.0 cr)
- HIST 3550 - Africa and Her Early American Diaspora (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
- MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
- MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)
- PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
- SOC 3330 - The U.S. Civil Rights Movement [SOC SCI, CDIVERSITY] (3.0 cr)
- SOC 4949 - Race and Ethnic Relations (3.0 cr)
- SOC 4981 - Social Movements, Protest and Change (4.0 cr)
- WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

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Duluth Campus

American Indian Studies B.A.

American Indian Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 40
- Degree: Bachelor of Arts

American Indian Studies (AIS) is an interdisciplinary academic department offering coursework committed to broadening knowledge of the worldview, histories, languages, literature, cultures, arts, and contemporary experiences of American Indian nations and peoples. As American Indian nations maintain a distinct political relationship with the federal government rooted in historical treaties, congressional laws, and executive orders, AIS promotes awareness for and understanding of tribal sovereignty and self-determination. AIS strives to protect the integrity and identity of the indigenous population of North America and to create an intellectual learning environment conducive to critical and creative thought.

A degree in American Indian studies is designed to give students a broad background while allowing concentrated study in an area(s) of interest. The program includes study in Ojibwe language, historical and contemporary foundations, politics and law, art and literature, and societies and cultures. Majors and minors develop skills in analytical and critical thinking, as well as verbal and written communication. They acquire knowledge of historical and contemporary American Indian experiences, cultures, and (inter)governmental affairs.

Graduates are prepared for careers in a variety of professional fields, including social services, for-profit and not-for-profit organizations, tribal, local, state or federal government, criminal and social justice fields, tribal economic development, as well as business and management. In addition, some graduates pursue advanced degrees in law, health, business, social work, education, museum studies, and fine arts.

Honors Requirements: Students must have a 3.75 GPA in the major.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Information current as of January 17, 2023

Program Requirements

1. A second field of study (either a minor, another major or dual degree) is required.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Core (9 cr)

AMIN 1001 - Introduction to American Indian Studies [CDIVERSITY] (3.0 cr)
AMIN 1010 - American Indian Experience to 1900 [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
AMIN 1020 - American Indian Experiences: 1900-present [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)

Internship or Research Experience (3 cr)

AMIN 3997 - Internship in American Indian Studies (3.0 cr)
or AMIN 4990 - Directed Research in American Indian Studies (3.0 cr)

Electives (24 cr)

One course from four of the five subject areas is required, a minimum of nine AMIN credits must be at the 3xxx-4xxx level and one course from the Optional Elective areas may apply to this requirement. AMIN 3997 and 4990 do not count toward this requirement.

Take 8 or more course(s) totaling 24 or more credit(s) from the following:

Language

Take 0 or more course(s) from the following:
- AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)

Politics and Law

Take 0 or more course(s) from the following:
- AMIN 3206 - Federal Indian Policy [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 4230 - Introduction to Federal Indian Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)

Art and Literature

Take 0 or more course(s) from the following:
- AMIN 1606 - Introduction to American Indian Literature [LE CAT9, HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 2605 - Survey of American Indian Arts [LE CAT, FINE ARTS, CDIVERSITY] (3.0 cr)
- AMIN 3630 - Native New Worlds: Zombie Killers, Detectives, and Astronauts in American Indian Genre Fiction [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 3640 - 21st Century Native Literature: American Indian Writing Published in the New Millennium [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 3660 - American Indian Novel [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 4630 - American Indians and the Media [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 4640 - American Indians in the Movies [HUMANITIES, CDIVERSITY] (3.0 cr)

Societies and Cultures

Take 0 or more course(s) from the following:
- AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
- AMIN 2405 - American Indian Families and Society [LE CAT, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3410 - Fur Trade in Canada and the United States [CDIVERSITY] (3.0 cr)
- AMIN 3420 - American Indians in Sports [LE CAT7, LECD CAT07, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 3450 - American Indian Women [CDIVERSITY] (3.0 cr)
- AMIN 4410 - American Indian Philosophies [HUMANITIES, CDIVERSITY] (3.0 cr)

Tribal Administration

Take 0 or more course(s) from the following:
- AMIN 2801 - Introduction to Tribal Administration and Governance (3.0 cr)
- AMIN 2820 - Foundations of Indigenous Leadership (3.0 cr)
- AMIN 3810 - Fundamentals of Tribal Strategic Management (3.0 cr)

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- AMIN 3820 - Fundamentals of Tribal Project Management (3.0 cr)
- AMIN 3830 - Fundamentals of Tribal Operations Management (3.0 cr)
- AMIN 4810 - Business Processes in Tribal Administration (3.0 cr)
- AMIN 4840 - Current Issues and Opportunities in Tribal Administration and Governance (3.0 cr)

•Optional Experience

Take 0 - 10 credit(s) from the following:

- AMIN 3393 - Projects in American Indian Studies (1.0 - 6.0 cr)

•Optional Elective

Take 0 - 1 course(s) from the following:

- ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 4621 - Myth and Sacred Symbols (3.0 cr)
- ANTH 4631 - Anthropology and Environment [SUSTAIN] (3.0 cr)
- ANTH 4633 - Ethnobotany [SUSTAIN] (4.0 cr)
- AST 1050 - Native Skywatchers: Indigenous Ethno- and ArchaeoAstronomy [CDIVERSITY] (3.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- CRIM 3322 - Law and Society (3.0 cr)
- CRIM 3375 - Restorative Justice (3.0 cr)
- CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
- ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- GEOG 2305 - Geography of Cultural Diversity [CDIVERSITY] (3.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)
- HIST 1304 - US History Part I: 1607-1877 [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 1305 - US History Part II: 1865-Present [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 2350 - Hunting and Gathering and the History of American Health [HUMANITIES, SUSTAIN] (4.0 cr)
- HIST 3939 - Europe in the Age of Renaissance and Reformation: 1348-1648 (4.0 cr)
- LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
- POL 1500 - Introduction to Comparative Politics [LE CAT, GLOBAL PER] (3.0 cr)
- POL 3515 - Theories of Comparative Politics (3.0 cr)
- SOC 4949 - Race and Ethnic Relations (3.0 cr)
- SW 1619 - Race, Class, and Gender in the United States [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)

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Duluth Campus

American Indian Studies Minor

American Indian Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

This minor is an interdisciplinary academic department offering coursework committed to broadening knowledge of the worldview, histories, languages, literatures, cultures, arts, and contemporary experiences of American Indian nations and peoples. As American Indian nations maintain a distinct political relationship with the federal government rooted in historical treaties, congressional laws, and executive orders, the department promotes an awareness for and understanding of tribal sovereignty and self-determination. The department strives to protect the integrity and identity of the indigenous population of North America and to create an intellectual learning environment conducive to critical and creative thought.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- AMIN 1001 - Introduction to American Indian Studies [CDIVERSITY] (3.0 cr)
- AMIN 1010 - American Indian Experience to 1900 [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
- AMIN 1020 - American Indian Experiences: 1900-present [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 2820 - Foundations of Indigenous Leadership (3.0 cr)

Electives (12 cr)

Students must take 4 courses. One course must be taken for at least 3 credits at the 3xxx level or higher. If additional core courses are taken, they can be used toward this elective requirement total. AMIN 3997 and 4990 do not count towards this requirement.

Lower Division (1000-2000 level)

Take 0 - 3 course(s) totaling 0 - 9 credit(s) from the following:

- AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 1606 - Introduction to American Indian Literature [LE CAT9, HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
- AMIN 2405 - American Indian Families and Society [LE CAT, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 2605 - Survey of American Indian Arts [LE CAT, FINE ARTS, CDIVERSITY] (3.0 cr)
- AMIN 2801 - Introduction to Tribal Administration and Governance (3.0 cr)
- AMIN 1xxx-2xxx

Upper Division (3000-4000 level)

Take 1 - 4 course(s) totaling 3 - 12 credit(s) from the following:

- AMIN 3206 - Federal Indian Policy [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3410 - Fur Trade in Canada and the United States [CDIVERSITY] (3.0 cr)
- AMIN 3420 - American Indians in Sports [LE CAT7, LECD CAT07, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 3450 - American Indian Women [CDIVERSITY] (3.0 cr)
- AMIN 3630 - Native New Worlds: Zombie Killers, Detectives, and Astronauts in American Indian Genre Fiction [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 3640 - 21st Century Native Literature: American Indian Writing Published in the New Millennium [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 3660 - American Indian Novel [HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 3810 - Fundamentals of Tribal Strategic Management (3.0 cr)
- AMIN 3820 - Fundamentals of Tribal Project Management (3.0 cr)
- AMIN 3995 - Special Topics: (Various Title to be Assigned) (3.0 cr)
- AMIN 4230 - Introduction to Federal Indian Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
- AMIN 4410 - American Indian Philosophies [HUMANITIES, CDIVERSITY] (3.0 cr)

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•AMIN 4630 - American Indians and the Media [HUMANITIES, CDIVERSITY] (3.0 cr)
•AMIN 4640 - American Indians in the Movies [HUMANITIES, CDIVERSITY] (3.0 cr)
•AMIN 4810 - Business Processes in Tribal Administration (3.0 cr)
•AMIN 4840 - Current Issues and Opportunities in Tribal Administration and Governance (3.0 cr)
•AMIN 3xxx-4xxx
•**Optional Experience**
Take 0 - 10 credit(s) from the following:
•AMIN 3393 - Projects in American Indian Studies (1.0 - 6.0 cr)

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Duluth Campus

Anthropology B.A.

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 40 to 44
- Degree: Bachelor of Arts

Anthropology focuses on the holistic study of diverse peoples and cultures with a central focus on what it means to be human. We are committed to an integrative and comparative approach that draws on the rich tradition of the four-fields (cultural anthropology, archaeology, linguistics, biological anthropology) while also bringing the methods and insights of the discipline to issues of critical importance to today's globalizing societies.

We emphasize qualitative methodology, including knowledge of the uses and limitations of standard methods, visual analysis, and the production of visual representations of reality using tools such as photography and video, participatory research with communities, and public ethnography. We also emphasize a strong ethical component concerning the study of humans, and the relationship between theory and method in qualitative fieldwork.

Areas of knowledge and skills our program delivers:
Specific ethnographic areas such as Middle, Central and South America, the Middle East, Europe, North America (including US culture), Africa.
Political, social, and environmental issues within the context of international and intranational diversity, framed within the Department's overall unifying socially-relevant themes of inequality, identify, power, social change and development, and global multiculturalism.
Community engagement and participatory culture.
Major historical and contemporary theoretical perspectives.

A final project, ANTH 4653-Senior Seminar, provides anthropology majors a capstone experience to use their research skills in applied projects.

Honors requirements: Honors students participate in independent research, working closely with a faculty member. Qualified majors apply to the honors program before the end of the second week of their senior year after they have completed or are enrolled in ANTH 4651-Development of Anthropological Theory or ANTH 4652-Cultural Theory for Wicked Problems.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade

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point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Core (2 cr)

ANTH 2001 - Career Development in Anthropology (2.0 cr)

Foundations (16 cr)

Lower division

Take 2 or more course(s) totaling 8 or more credit(s) from the following:

- ANTH 1080 - Understanding Global Cultures [LE CAT, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1602 - Biological Anthropology and Archaeology [LE CAT, SOC SCI] (4.0 cr)
- ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1620 - Introduction to Public Culture: Earth Citizenship, Science, and Culture [GLOBAL PER] (4.0 cr)
- ANTH 1xxx

Anthropology theory

Take 1 or more course(s) totaling 4 or more credit(s) from the following:

- ANTH 4651 - Development of Anthropological Theory (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)

Methods

Take 1 or more course(s) totaling 4 or more credit(s) from the following:

- ANTH 3156 - Digital and Participatory Research Methods (4.0 cr)
- ANTH 4620 - Archaeological Method and Theory (4.0 cr)
- SOC 3156 - Qualitative Research Methods and Analysis (4.0 cr)

ANTH 3xxx-Level Electives (6-8 cr)

Take 1 - 2 course(s) from the following:

- ANTH 3080 - Cultural Constructions of the Body (4.0 cr)
- ANTH 3100 - Business Anthropology (4.0 cr)
- ANTH 3200 - Exploring Sustainability & Culture - Study Abroad [GLOBAL PER] (6.0 cr)
- ANTH 3300 - Energy, Culture and Society [GLOBAL PER] (4.0 cr)
- ANTH 3618 - Ancient Middle America (3.0 cr)
- ANTH 3622 - Archaeology of the Old World (3.0 cr)
- ANTH 3624 - Archaeology of North America (3.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3640 - What is a City?: Archaeological Perspectives on Urbanism [SUSTAIN] (3.0 cr)
- ANTH 3641 - The City in Film [FINE ARTS] (4.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 3xxx
- **Optional Experience (3xxx)**

  The following course carries variable credit. One to four credits may count towards the ANTH 3xxx requirement; additional credits will apply to the degree.

  Take 0 - 4 credit(s) from the following:

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•ANTH 3691 - Independent Study in Anthropology (1.0 - 4.0 cr)

ANTH 4xxx-Level Electives (6-8 cr)

Take 1 - 2 course(s) from the following:

- •ANTH 4100 - Visual Anthropology (4.0 cr)
- •ANTH 4500 - The New Commons: Governing Shared Resources for Present and Future Generations [SUSTAIN] (4.0 cr)
- •ANTH 4616 - Culture and Personality (3.0 cr)
- •ANTH 4621 - Myth and Sacred Symbols (3.0 cr)
- •ANTH 4631 - Anthropology and Environment [SUSTAIN] (3.0 cr)
- •ANTH 4633 - Ethnobotany [SUSTAIN] (4.0 cr)
- •ANTH 4640 - Medical Anthropology (4.0 cr)
- •ANTH 4644 - Anthropology of Law (4.0 cr)
- •ANTH 4985 - Critical Animal Studies (4.0 cr)
- •ANTH 4695 - Special Topics: (Various Titles to be Assigned) (1.0 - 5.0 cr)
- •ANTH 4xxx
- •**Optional Experience (4xxx)**

  The following courses carry variable credit. Only four credits maximum in one course or combined from these courses may count towards the ANTH 4xxx requirement; additional credits will apply to the degree.

  Take 0 - 4 credit(s) from the following:

  - •ANTH 4691 - Independent Study (1.0 - 4.0 cr)
  - •ANTH 4696 - Field Research in Archaeology (1.0 - 10.0 cr)
  - •ANTH 4697 - Anthropology Internship (2.0 - 6.0 cr)
  - •ANTH 4699 - Honors Project (2.0 - 4.0 cr)
  - •ANTH 4910 - Teaching Assistantship in Anthropology (1.0 - 3.0 cr)

Additional Required Elective (3 cr)

Students may propose an alternative course related to anthropology with prior approval from the department.

Take 1 or more course(s) from the following:

- •AAAS 3xxx-4xxx
- •AMIN 3xxx-4xxx
- •ANTH 1xxx-4xxx
- •CRIM 3xxx-4xxx
- •CUE 3xxx-4xxx
- •GEOG 3xxx-4xxx
- •LING 3xxx-4xxx
- •SOC 3xxx-4xxx
- •WS 3xxx-4xxx

Seminar (3 cr)

ANTH 4653 - Senior Seminar (3.0 cr)

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Duluth Campus

Anthropology Minor

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22 to 26

This minor examines the role of culture in human society, familiarizing students with the study of diverse peoples and cultures. Students are allowed flexibility in exploring substantive courses relevant to their interests.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (8 cr)

Take 2 or more course(s) from the following:

- ANTH 1080 - Understanding Global Cultures [LE CAT, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1602 - Biological Anthropology and Archaeology [LE CAT, SOC SCI] (4.0 cr)
- ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1620 - Introduction to Public Culture: Earth Citizenship, Science, and Culture [GLOBAL PER] (4.0 cr)
- ANTH 1xxx

Career Development (2 cr)

ANTH 2001 - Career Development in Anthropology (2.0 cr)

ANTH 3xxx-Level Electives (6-8 cr)

Take 2 or more course(s) from the following:

- ANTH 3080 - Cultural Constructions of the Body (4.0 cr)
- ANTH 3100 - Business Anthropology (4.0 cr)
- ANTH 3156 - Digital and Participatory Research Methods (4.0 cr)
- ANTH 3200 - Exploring Sustainability & Culture - Study Abroad [GLOBAL PER] (6.0 cr)
- ANTH 3300 - Energy, Culture and Society [GLOBAL PER] (4.0 cr)
- ANTH 3618 - Ancient Middle America (3.0 cr)
- ANTH 3622 - Archaeology of the Old World (3.0 cr)
- ANTH 3624 - Archaeology of North America (3.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3640 - What is a City?: Archaeological Perspectives on Urbanism [SUSTAIN] (3.0 cr)
- ANTH 3641 - The City in Film [FINE ARTS] (4.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 3xxx
- **Optional Experience**

  The following course carries variable credit. Only three credits maximum may count towards the ANTH 3xxx requirement; additional credits will apply to the degree.

  Take 0 - 3 credit(s) from the following:

  - ANTH 3691 - Independent Study in Anthropology (1.0 - 4.0 cr)

ANTH 4xxx-Level Electives (6-8 cr)

Take 2 or more course(s) from the following:

- ANTH 4100 - Visual Anthropology (4.0 cr)
- ANTH 4500 - The New Commons: Governing Shared Resources for Present and Future Generations [SUSTAIN] (4.0 cr)
- ANTH 4616 - Culture and Personality (3.0 cr)
- ANTH 4620 - Archaeological Method and Theory (4.0 cr)
- ANTH 4621 - Myth and Sacred Symbols (3.0 cr)
- ANTH 4631 - Anthropology and Environment [SUSTAIN] (3.0 cr)

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- ANTH 4633 - Ethnobotany [SUSTAIN] (4.0 cr)
- ANTH 4640 - Medical Anthropology (4.0 cr)
- ANTH 4644 - Anthropology of Law (4.0 cr)
- ANTH 4651 - Development of Anthropological Theory (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ANTH 4653 - Senior Seminar (3.0 cr)
- ANTH 4985 - Critical Animal Studies (4.0 cr)
- ANTH 4695 - Special Topics: (Various Titles to be Assigned) (1.0 - 5.0 cr)
- ANTH 4xxx
- **Optional Experience**

  The following courses carry variable credit. Only three credits maximum in one course or combined from these courses counts towards the ANTH 4xxx requirement; additional credits will apply to the degree.

  Take 0 - 3 credit(s) from the following:

  - ANTH 4691 - Independent Study (1.0 - 4.0 cr)
  - ANTH 4696 - Field Research in Archaeology (1.0 - 10.0 cr)
  - ANTH 4697 - Anthropology Internship (2.0 - 6.0 cr)
  - ANTH 4699 - Honors Project (2.0 - 4.0 cr)
  - ANTH 4910 - Teaching Assistantship in Anthropology (1.0 - 3.0 cr)

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Duluth Campus

Art B.A.

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 56
- Degree: Bachelor of Arts

This art program provides study in art with an emphasis on the liberal arts. Along with the courses required within the major, students must select either a minor, another major, or dual degree appropriate for their academic goals or interests.

Honor Requirements: Candidates, nominated by Art and Design Department faculty, receive honors for distinguished achievement demonstrated in part by the senior student exhibition or a senior presentation or project.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

New students are admitted to pre-major status before admission to this major. To quality for this program pre-art students must pass a portfolio review (ART 902); the portfolio is scheduled both fall and spring semesters.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Core (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
•ART 1012 - 3-D Design (3.0 cr)

Foundations (12 cr)

Group A

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ART 1011 - 2-D Design (3.0 cr)
•ART 1013 - 2-D Digital Design (3.0 cr)

Group B

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
•ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
•ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)

Portfolio Review (0 cr)

At least one course from the Core, one course from each Foundations area, and a 2.0 GPA minimum in art and art history courses is required prior to enrolling in Portfolio Review. Remaining Core or Foundations courses can be completed after Portfolio Review.

Take 1 or more course(s) from the following:
•ART 902 - Studio Art Portfolio Review (0.0 cr)

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General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (minor, major, degree) is required for this major.
2. Attend two Visual Culture Lecture Series events each semester (fall and spring).
3. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Advanced Writing (3 cr)

WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
or WRIT 4230 - Web Design and Digital Culture (3.0 cr)
or WRIT 4250 - New Media Writing (3.0 cr)

Visual Culture Lecture Series

Attend two visual lecture events each fall and spring semesters.
Visual Lecture (2 events)

Art & Art History Core (6 cr)

ART 3700 - Drawing II (3.0 cr)
ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)

Studio Foundations (12 cr)

Students are advised to review pre-requisites for all studio electives and plan accordingly.

Lower Division Studio Electives (2000 Level)

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

- ART 2014 - 3-D Modeling and Animation (3.0 cr)
- ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
- ART 2018 - Digital Arts: Interactive Media (3.0 cr)
- ART 2030 - Digital Arts: Time-based Media (3.0 cr)
- ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
- ART 2100 - Painting I (3.0 cr)
- ART 2200 - Sculpture I (3.0 cr)
- ART 2400 - Ceramics I (3.0 cr)
- ART 2500 - Jewelry and Metals I (3.0 cr)
- ART 2600 - Photography I (3.0 cr)
- ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
  or ART 2301 - Printmaking I: Litho, Screen (3.0 cr)

Studio Electives (9 cr)

Upper Division Studio Electives (3000-4000 Level)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
- ART 3100 - Painting II (3.0 cr)

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- ART 3200 - Sculpture II (3.0 cr)
- ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
- ART 3300 - Printmaking II (3.0 cr)
- ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
- ART 3400 - Ceramics II (3.0 cr)
- ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)
- ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
- ART 3500 - Jewelry and Metals II (3.0 cr)
- ART 3600 - Intermediate Concepts in Photography (3.0 cr)
- ART 3615 - Photography: Inventing with Light (3.0 cr)
- ART 3700 - Drawing II (3.0 cr)
- ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
- ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
- ART 4100 - Painting III (3.0 cr)
- ART 4200 - Sculpture III (3.0 cr)
- ART 4300 - Printmaking III (3.0 cr)
- ART 4400 - Ceramics III (1.0 - 3.0 cr)
- ART 4600 - Photography: Digital Portfolio (3.0 cr)
- ART 4650 - Alternative Processes Portfolio (3.0 cr)
- ART 4675 - Photography: The Photographic Book (3.0 cr)
- ART 4700 - Drawing III (3.0 cr)

Art History Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
- ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
- ARTH 2620 - History of Photography (3.0 cr)
- ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
- ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
- ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
- ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
- ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
- ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
- ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
- ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)

Capstones (4 cr)

ART 4812 - Senior Seminar (3.0 cr)
ART 4898 - Art BA Senior Exhibition (1.0 cr)

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Duluth Campus

Art Education K-12 B.F.A.

UMD Art and Design, Dept of, Education

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 131
- Required credits within the major: 109
- Degree: Bachelor of Fine Arts

The Bachelor of Fine Arts (BFA) degree program in Art Education is for students preparing for teacher licensure in Art Education grades K-12; it is offered in cooperation with the Department of Education in the College of Education and Human Service Professions (CEHSP). The program prepares art teachers for kindergarten through the twelfth grade and provides a foundation in a variety of studio areas, art history, and art education methods. To qualify for this program, pre-art education students must pass a portfolio review (ART 0903). In addition to completing liberal education and art courses, each student must gain admission to the Secondary Teacher Education Program (STEP) licensure program during the junior year to complete the education courses required by the MN Professional Educator Licensing and Standards Board (PELSB). Students entering the secondary and K-12 licensure programs are bound by the policies in effect at the time of application to the licensure program. Admission is based on criteria established by the Department of Education that are consistent with Minnesota policies, as well as standards established by the MN Professional Educator Licensing and Standards Board. Field experiences are an important part of the art education program and include observations and participation in community, museum, and elementary school programs; two apprenticeships in area public and/or private middle schools and high schools concluding with a full semester of supervised student teaching (8 weeks at the elementary and 8 weeks at the middle or high school level). Students produce a body of work for the Senior Exhibition under the mentorship of faculty in their area.

Students should utilize the What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission process, students are strongly encouraged to meet with their assigned academic advisors on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Students must have completed at least 9 cr of art core pre-art ed courses during the 1st semester at UMD. The portfolio reviews occur the 5th week of each semester. A mandatory meeting takes place 2 weeks prior to the review. After successful completion of the art ed portfolio review, students become art ed majors. Admission to the Secondary Teacher Education Program K-12 licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept of Educ, consistent with MN policies as established by the MN Professional Educator Licensing & Standards Board. Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major & cum GPA; all pre-block art ed coursework with a grade of a C- or better; lib ed req; adv writing; & all requirements outlined online at: z.umn.edu/stepapplication. Applications due the 6th Friday of the semester prior to starting Block 1. Consult advisor.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
or WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

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Core (18 cr)
Group A
ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
ART 1012 - 3-D Design (3.0 cr)
Group B
ART 1011 - 2-D Design (3.0 cr)
ART 1013 - 2-D Digital Design (3.0 cr)
Group C
ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
or ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)
ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)

Portfolio Review (0 cr)
At least one course from each Group (A, B, C) and a 2.5 GPA overall (3.0 in art and art history courses) is required prior to enrolling in Portfolio Review. Remaining Foundation Core courses can be completed after Portfolio Review.
ART 903 - Art Education Portfolio Review (0.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
2. Maintain a minimum 2.5 cumulative and major GPA.
3. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
4. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
5. Students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
6. Students are required to have professional liability insurance, purchased through the Education Minnesota Student Membership annually, before being placed in field experience, practicum, or student teaching in schools and agencies. Students can purchase the liability insurance online at: z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
7. Seek out advising each term with assigned advisor throughout your college career to ensure you are on track for program completion.
8. Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies (d.umn.edu/academic-affairs/academic-policies).
9. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the

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major to be eligible for student teaching.
10. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.
11. Attendance at two visual lectures per semester (fall and spring).
12. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Visual Lecture Attendance
Students are required to attend two visual lectures each fall and spring semester.
* Two visual lectures per term

Foundations (9 cr)
ART 2100 - Painting I (3.0 cr)
ART 3700 - Drawing II (3.0 cr)
ART 2200 - Sculpture I (3.0 cr)
or ART 2400 - Ceramics I (3.0 cr)

Lower Level Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
or ART 2400 - Ceramics I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
or ART 2301 - Printmaking I: Litho, Screen (3.0 cr)

Upper Level Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)
•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 3500 - Jewelry and Metals II (3.0 cr)
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 3715 - Figure Drawing (3.0 cr)
•ART 3812 - Nordic Art & Design in Sweden and Denmark [GLOBAL PER] (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4191 - Individual Study in Painting (1.0 - 3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4291 - Individual Study in Sculpture (1.0 - 3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4391 - Individual Study in Printmaking (1.0 - 3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4491 - Individual Study in Ceramics (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4691 - Individual Study in Photography (1.0 - 3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
•ART 4791 - Individual Study in Drawing (1.0 - 3.0 cr)

Art Education Core (9 cr)
ART 3809 - Art in Elementary Education Methods (3.0 cr)
ART 3814 - Digital Media in Art Education (3.0 cr)
ART 3815 - Art in Secondary Education (3.0 cr)

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Art History Electives (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ARTH 2xxx-4xxx

Capstones (4 cr)
ART 4812 - Senior Seminar (3.0 cr)
ART 4899 - Senior Presentation/Exhibition (1.0 cr)

Pre-Education Block (5 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

Education Block 1 (12 cr)
Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings. Consult advisor for additional upper division art course(s).
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Education Block 2 (11 cr)
All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application. Block 2 is the time to take the MTLE Content exams. Immediately following the completion of Block 2 prior to starting Block 3 take the MTLE Pedagogy exams.
EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

Education Block 3 (13 cr)
All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application. Students must register for EDSE 4600 for 6 credits and ELED 4650 for 6 credits. Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600/ELED 4650.
EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
ELED 4650 - Student Teaching in Individual Subjects: K-8 (1.0 - 6.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

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Duluth Campus

Art History B.A.

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 59
- Degree: Bachelor of Arts

The art history degree offers introductory and intermediate level courses in the history of western and non-western art from the pre-historic era to the present. The visual arts and architecture are studied in relation to aesthetic traditions, cultural values, and social experience. Museum internships are available through the Tweed Museum of Art.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Students are required to take 3 semester(s) of any second language.

1. A second field of study (e.g. minor, major, degree) is required for this major..
2. Final Project: After completing most of the required art history courses required for the major, students are required to write a research paper. The paper may be one written previously for an art history class, an independent study in art history, or an entirely new project. It must be written or revised in consultation with one of the art history faculty, who reads and approves the final version. Check with department for details.
3. Attendance at two visual lectures per semester (fall and spring).
4. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3100 - Advanced Writing: Language and Literature (3.0 cr)
or WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
or WRIT 4200 - Writing and Cultures (3.0 cr)

Art Foundations (3 cr)
ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
or ART 1011 - 2-D Design (3.0 cr)
or ART 1012 - 3-D Design (3.0 cr)
or ART 1013 - 2-D Digital Design (3.0 cr)

Lower Division (1000-2000 Level) Core (12 cr)
ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)
ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)
ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)

Upper Division (3000 Level) Core (12 cr)
ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)

Art History Foundations (12 cr)
20th-21st Century Art
ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
or ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
Art of the Americas
ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
or ARTH 3110 - Art of the Ancient Americas (3.0 cr)
Early Modern European Art & Architecture
ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
or ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
Modern Art
ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
or ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)

Senior Capstone & Senior Paper (4 cr)
ARTH 4330 - Methods and Theories of Art History and Visual Studies (3.0 cr)
ARTH 4999 - Senior Paper Art History (1.0 cr)

World Language (12 cr)
It is recommended that students take three courses of the same language. Other languages may be proposed with approval from the department.
Chinese
Take 0 - 3 course(s) from the following:
•CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
•CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
French
Take 0 - 3 course(s) from the following:
•FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•FR 3305 - French Cuisine: Exploring French Culture Through Food [HUMANITIES, GLOBAL PER] (4.0 cr)
•FR 4018 - Studies in Francophone Cultures and Literature [HUMANITIES, GLOBAL PER] (4.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)

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•FR 4492 - Modern French Literature (19th-21st century) [HUMANITIES] (4.0 cr)

German

Take 0 - 3 course(s) from the following:

•GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
•GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
•GER 3401 - Texts and Contexts in German Speaking World [HUMANITIES] (4.0 cr)
•GER 3403 - Page and Stage: German Theater and Performance [FINE ARTS] (4.0 cr)
•GER 3407 - Sustainability in German-speaking Cultures [SUSTAIN] (4.0 cr)
•GER 3601 - German Studies I: Knights to Nationalisms [HUMANITIES] (4.0 cr)
•GER 3602 - German Studies II: From the Rise of the Reich to the Fall of the Wall [HUMANITIES] (4.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•GER 4502 - German Modernisms: From Vienna to Berlin [HUMANITIES] (4.0 cr)

Ojibwe

Students who complete this series will also take one more course (4 cr) from any course list. The remaining two credits to fulfill this requirement will be waived by exception.

Take 0 - 2 course(s) from the following:

•AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
•AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)

Spanish

Take 0 - 3 course(s) from the following:

•SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4013 - Latin American Poetry and Drama [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4022 - Medieval and Golden Age Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•SPAN 4090 - Aspects of the Hispanic World [HUMANITIES] (4.0 cr)

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Duluth Campus

Art History Minor

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 24

The art history minor gives students grounding in western and non-western art history and art historical method. The program integrates knowledge of historical developments in art with concurrent political and social events.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (12 cr)

ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)
ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)
ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)

Foundations (3 cr)

ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
or ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)

Electives (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- ARTH 3110 - Art of the Ancient Americas (3.0 cr)
- ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
- ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
- ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
- ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
- ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
- ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
- ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
- ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
- ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)

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Duluth Campus

Art Minor

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 27

The art minor is useful to students desiring cognitive knowledge of and experience in aspects of basic design, studio art, and art history.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (12 cr)

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

- ART 1012 - 3-D Design (3.0 cr)
- ART 1009 - Fundamentals of Drawing [LE CAT, FINE ARTS] (3.0 cr)
  or ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
- ART 1011 - 2-D Design (3.0 cr)
  or ART 1013 - 2-D Digital Design (3.0 cr)
- ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
  or ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)
  or ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)

Electives (15 cr)

One course must be at the 3xxx or 4xxx level for at least 3 credits.

Lower Division (1000-2000 level)

Take 0 - 4 course(s) totaling 0 - 12 credit(s) from the following:

- ART 1105 - Fundamentals of Painting [FINE ARTS] (3.0 cr)
- ART 1306 - Fundamentals of Screenprinting [FINE ARTS] (3.0 cr)
- ART 1405 - Fundamentals of Ceramics I [LE CAT, FINE ARTS] (3.0 cr)
- ART 1605 - Fundamentals of Photography [LE CAT, FINE ARTS] (3.0 cr)
- ART 1814 - Creating Across Cultures [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
- ART 2014 - 3-D Modeling and Animation (3.0 cr)
- ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
- ART 2018 - Digital Arts: Interactive Media (3.0 cr)
- ART 2030 - Digital Arts: Time-based Media (3.0 cr)
- ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
- ART 2100 - Painting I (3.0 cr)
- ART 2200 - Sculpture I (3.0 cr)
- ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
- ART 2301 - Printmaking I: Litho, Screen (3.0 cr)
- ART 2400 - Ceramics I (3.0 cr)
- ART 2500 - Jewelry and Metals I (3.0 cr)
- ART 2600 - Photography I (3.0 cr)

Upper Division (3000-4000 level)

Take 1 - 5 course(s) totaling 3 - 15 credit(s) from the following:

- ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
- ART 3100 - Painting II (3.0 cr)
- ART 3200 - Sculpture II (3.0 cr)
- ART 3300 - Printmaking II (3.0 cr)
- ART 3400 - Ceramics II (3.0 cr)
- ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)
- ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
- ART 3500 - Jewelry and Metals II (3.0 cr)
- ART 3600 - Intermediate Concepts in Photography (3.0 cr)
- ART 3700 - Drawing II (3.0 cr)

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- ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
- ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
- ART 4100 - Painting III (3.0 cr)
- ART 4200 - Sculpture III (3.0 cr)
- ART 4300 - Printmaking III (3.0 cr)
- ART 4400 - Ceramics III (1.0 - 3.0 cr)
- ART 4600 - Photography: Digital Portfolio (3.0 cr)
- ART 4700 - Drawing III (3.0 cr)

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Duluth Campus

Arts Administration B.A.

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 88 to 90
- Internships and Externships in the arts fields will take place locally and abroad. The Duluth Art Institute, Duluth Superior Symphony Orchestra, Renegade Theater, the Duluth Playhouse, Chanhassen Dinner Theater, Prøve Gallery in Duluth, the Tweed Museum, Glensheen Historic Estate, and our relationships with music, theater and arts programs in Worcester, England, Lyon, France, and new relationships with the University of Birmingham, England are among the many locales and organizations we are working with for the externships.
- Degree: Bachelor of Arts

This degree provides preparation for students seeking careers in the administration and management of arts programs, organizations, foundations, and arts-related industries and companies. Arts administrators are responsible for facilitating the day-to-day operations of an organization as well as implementing goals and strategies that fulfill a specific mission or underlying philosophy.

Arts organizations include non-profits such as dance companies, theatres, museums, symphony orchestras, cultural centers, and arts training schools; all ranging in size and geographic region. Related for-profit industries include art galleries, touring companies, and performance venues. Duties of an arts administrator may include staff management, marketing oversight, budget management, public relations and cross-sector collaboration, fundraising and grant writing, program development and assessment, board development and arts advocacy. Coursework combines business management, marketing, and administration both in business and the arts with experiences in arts practice. Additional coursework within the collegiate unit prepares students for the specific field of leadership in organizations for the arts.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Lower Division (1000-2000 Level) Core (6 cr)

Take 3 or more course(s) totaling 6 or more credit(s) from the following:

- FA 1001 - Introduction to Arts Administration (1.0 cr)
- FA 2001 - Education Programming and Community Impact for Arts Organizations (3.0 cr)
- FA 2200 - Observations in Arts Organizations (2.0 cr)

Communication and World Language (6-8 cr)

Language courses must be within the same language. Contact the World Languages and Cultures Department for proper placement.

Communication

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
- COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)

or **French**

Take 2 or more course(s) totaling 8 or more credit(s) from the following:

- FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
- FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
- FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
- FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

or **German**

Take 2 or more course(s) totaling 8 or more credit(s) from the following:

- GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
- GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
- GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
- GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)

or **Spanish**

Take 2 or more course(s) totaling 8 or more credit(s) from the following:

- SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Foundations (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

Drawing and Design

Take 0 - 1 course(s) from the following:

- ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
- ART 1011 - 2-D Design (3.0 cr)
- ART 1013 - 2-D Digital Design (3.0 cr)

- **Visual Art**

Take 0 - 1 course(s) from the following:

- ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
- ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)

- **Music**

Take 0 - 1 course(s) from the following:

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•MU 1001 - Introduction to Music [LE CAT, FINE ARTS, GLOBAL PER] (3.0 cr)

•Dance and Theatre

Take 0 - 1 course(s) from the following:

•DN 1001 - Introduction to the World of Dance [LE CAT, FINE ARTS, GLOBAL PER] (3.0 cr)
•TH 1001 - Introduction to Theatre Arts [LE CAT, FINE ARTS] (3.0 cr)

Electives (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

•ART 1xxx-4xxx
•ARTH 1xxx-4xxx
•DN 1xxx-4xxx
•MU 1xxx-4xxx
•TH 1xxx-4xxx

Upper Division (3000-5000 Level) Core (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

•FA 3001 - Development for the Arts (3.0 cr)
•FA 3002 - Managing Arts Organizations (3.0 cr)
•FA 3003 - Seminar in Current Trends and Issues in Arts Administration (3.0 cr)

Internships (18 cr)

Take 2 or more course(s) totaling 18 or more credit(s) from the following:

•FA 3200 - Internship I in Arts Organizations (6.0 cr)
•FA 4200 - Internship II/Externship in Arts Organizations (12.0 cr)

Pre-Business Core (12 cr)

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

•ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)
•ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
•ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
•MIS 2201 - Information Technology in Business (3.0 cr)

Business Core (15 cr)

Take 5 or more course(s) totaling 15 or more credit(s) from the following:

•FIN 3601 - Corporate Finance (3.0 cr)
•MGTS 3301 - Production and Operations Management (3.0 cr)
•MGTS 3401 - Organizational Behavior and Management (3.0 cr)
•MGTS 3801 - Human Resource Management (3.0 cr)
•MKTG 3701 - Principles of Marketing (3.0 cr)

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Duluth Campus

Arts in Media Minor

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 30

The arts in media minor is useful to students seeking a broad understanding of and hands-on experience with principles, practices, and technologies used in contemporary mass media. It includes coursework across a range of subject areas to offer the student a wide perspective.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

1. One 3xxx level or higher course for at least 3 credits must be taken.

Core (15 cr)

ART 1013 - 2-D Digital Design (3.0 cr)
ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
ART 2030 - Digital Arts: Time-based Media (3.0 cr)
ART 2600 - Photography I (3.0 cr)

Interdisciplinary Electives (6 cr)

Within the minor one course must be at the 3xxx or 4xxx level for at least 3 credits.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- ANTH 1620 - Introduction to Public Culture: Earth Citizenship, Science, and Culture [GLOBAL PER] (4.0 cr)
- ART 1003 - Introduction to Design [LE CAT, FINE ARTS] (3.0 cr)
- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
- ARTH 2620 - History of Photography (3.0 cr)
- ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
- COMM 1500 - Media and Society [LE CAT8, HUMANITIES] (3.0 cr)
- MU 1004 - Music in Film [FINE ARTS] (3.0 cr)
- TH 1053 - Film and Society [LE CAT] (3.0 cr)
- TH 2851 - Film History (3.0 cr)
- COMM 2101 - Foundations of Mass Communication [LE CAT8, SOC SCI] (3.0 cr)
- COMM 3211 - Communication and Technology in the Information Age (3.0 cr)
- COMM 3505 - Media Communications (3.0 cr)
- COMM 3520 - Media Effects [SOC SCI] (3.0 cr)
- COMM 3560 - Video Game Entertainment (3.0 cr)
- WRIT 4230 - Web Design and Digital Culture (3.0 cr)
- WRIT 4250 - New Media Writing (3.0 cr)

Experiential Electives (9 cr)

One 3xxx level or higher course for at least 3 credits must be taken.
Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- ART 1305 - Social Multiples: Availability and Circulation [FINE ARTS] (3.0 cr)
- ART 2014 - 3-D Modeling and Animation (3.0 cr)
- ART 2018 - Digital Arts: Interactive Media (3.0 cr)
- ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
- ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
- ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
- ART 3814 - Digital Media in Art Education (3.0 cr)
- ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
- ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)

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•ART 4091 - Individual Study in Electronic Arts (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)

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Duluth Campus

Chinese Area Studies B.A.

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 39 to 42
- This program requires summer terms.
- Study abroad or internship is required.
- Degree: Bachelor of Arts

This program prepares students to thrive as globally aware and cross-culturally competent citizens through a critical understanding of Chinese cultures. Students develop functional Mandarin language communication skills. Topics studied pertain to Chinese literature, history, politics, and art. This major addresses the role of China within larger global contexts. A major in Chinese Area Studies prepares graduates to apply their language skills, cultural knowledge, and global awareness to a wide variety of career choices (government, international relations, foreign service, immigration services, tourism, and entrepreneurship).

Study abroad or internship is required for this major.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students, and international study is encouraged. In-depth study of language and culture in a host country vastly improves language proficiency and intercultural competence. Talk with a faculty advisor in Chinese Area Studies to explore academic options for fulfilling some of your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
Recommended: WRIT 3100 - Advanced Writing: Language and Literature
WRIT 31xx - Adv Writing (3 cr)

Language Core (16 cr)
Students with language study may be exempt from some language courses and should consult the department about placement. Students who fulfill the study abroad requirement with CHIN 1399 will be exempt from CHIN 1202 by request.
CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

Culture Core (4 cr)
CHIN 3042 - Aspects of Chinese Cultures: Interface between Traditions and Contemporary Values [HUMANITIES, GLOBAL PER] (4.0 cr)

Study Abroad or Internship (3-6 cr)
CHIN 1399 is strongly recommended and is only offered periodically in the summer. Students participate in Mandarin courses from beginning level to advanced level depending on student proficiency; consists of 90 in-class hours. Students learn Chinese culture in formal academic settings as well as in on-site authentic historical and contemporary environments. Students may participate in other programs with prior approval of the department.
CHIN 1399 - Language and Culture in China - Study Abroad [GLOBAL PER] (6.0 cr)
or CHIN 3097 - Internship (1.0 - 3.0 cr)

Electives (12 cr)
Take 4 or more course(s) from the following:
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4616 - Culture and Personality (3.0 cr)
- ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)
- CHIN 3030 - Chinese Cinema (4.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- COMM 4210 - Theories of Intercultural Communication (3.0 cr)
- CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
- CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
- CUE 4002 - Managing Cultural Organizations (3.0 cr)
- ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 2405 - History of Chinese Culture (4.0 cr)
- HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
- HIST 3463 - History of Modern China (4.0 cr)
- HIST 3465 - Twentieth Century China Politics (4.0 cr)
- LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
- LING 2101 - Phonetics and Phonology [NAT SCI] (3.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PHIL 3291 - Current Social Political Philosophy (4.0 cr)
- PHIL 3421 - Eastern Philosophy (4.0 cr)
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- CHIN 1xxx-4xxx
- **Optional Experience**

  Take 0 - 8 credit(s) from the following:
  - CHIN 3591 - Independent Study (1.0 - 4.0 cr)
  - CHIN 4591 - Independent Study (1.0 - 4.0 cr)

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Duluth Campus

Chinese Area Studies Minor

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 26

This program prepares students to thrive as globally aware and cross-culturally competent citizens through a critical understanding of Chinese cultures. Students develop functional Mandarin language communication skills. Topics studied pertain to Chinese literature, history, politics, and art. This program addresses the role of China within larger global contexts. Chinese Area Studies prepares graduates to apply their language skills, cultural knowledge, and global awareness to a wide variety of career choices (government, international relations, foreign service, immigration services, tourism, and entrepreneurship).

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Language Core (16 cr)

Students with language study may be exempt from some core requirements and should consult the department about placement.
Students who participate in CHIN 1399 (study abroad, 6 cr) will be exempt from CHIN 1202 by request.
CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

Culture Core (4 cr)

CHIN 3042 - Aspects of Chinese Cultures: Interface between Traditions and Contemporary Values [HUMANITIES, GLOBAL PER] (4.0 cr)

Electives (6 cr)

Take 6 or more credit(s) from the following:
Take 1 or more course(s) from the following:

- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4616 - Culture and Personality (3.0 cr)
- ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)
- CHIN 1399 - Language and Culture in China - Study Abroad [GLOBAL PER] (6.0 cr)
- CHIN 3030 - Chinese Cinema (4.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- COMM 4210 - Theories of Intercultural Communication (3.0 cr)
- CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
- CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
- CUE 4002 - Managing Cultural Organizations (3.0 cr)
- ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 2405 - History of Chinese Culture (4.0 cr)
- HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
- HIST 3463 - History of Modern China (4.0 cr)
- HIST 3465 - Twentieth Century China Politics (4.0 cr)
- INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
- LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
- LING 2101 - Phonetics and Phonology [NAT SCI] (3.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PHIL 3291 - Current Social Political Philosophy (4.0 cr)
- PHIL 3421 - Eastern Philosophy (4.0 cr)
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- CHIN 1xxx-4xxx

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•**Optional Experience**
Take 0 - 6 credit(s) from the following:
•CHIN 3097 - Internship (1.0 - 3.0 cr)
•CHIN 3591 - Independent Study (1.0 - 4.0 cr)
•CHIN 4591 - Independent Study (1.0 - 4.0 cr)

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Duluth Campus

Cognitive Science B.A.

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 32
- Degree: Bachelor of Arts

Cognitive Science is the interdisciplinary attempt to understand the mind, especially the human mind (with the prospect of creating artificial minds as a hopeful next step).

Understanding the mind and intelligence has long been a goal that seemed out of reach. The mind, consciousness, intelligence, and the related phenomena have been addressed by researchers in many areas including philosophy, psychology, linguistics, medicine, neuroscience, and artificial intelligence. These disciplines have very different histories and at universities are often separated by distance and academic culture. However, in the past 30 years, there has been a convergence of these disciplines on a few research paradigms: computational models of perception and reasoning, connectionism, and embodied cognition. It is now possible to form a more complete understanding of minds by drawing on contributions from all these disciplines, and a great deal of progress has been made. This has led to the rise at many universities of interdisciplinary programs in Cognitive Science. The programs exploit the insights that come from a variety of disciplinary approaches to understanding a single phenomenon: cognition.

More specifically, Cognitive Science aims to understand the nature and development of such capacities as consciousness, perception, information processing, language acquisition and processing, planning, reasoning, learning, representation and use of knowledge, and problem-solving, whether these capacities are realized in biological or artificial systems. The major looks to the theoretical foundations, the substantive empirical results, and the methodological tools of contributing disciplines (see Program Requirements). The hope is that by combining the methods and results of all these branches, we will be able to provide a global understanding of the mind, how it works, and why it works that way.

Graduates of the program will be prepared for study in one of the many recently developed graduate Cognitive Science programs (including the Ph.D. offered at the Center for Cognitive Science at the University of Minnesota, Twin Cities) as well as graduate study in related programs such as cognition, brain and behavior, cognitive neuroscience, artificial intelligence, and human-computer interaction. Those who choose to study the law, a path frequently chosen by Philosophy majors, will be well suited for legal practice concerned with the variety of legal complexities associated with the development of these new technologies.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade

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point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Core (7 cr)

PHIL 1025 - Introduction to Cognitive Science [NAT SCI] (3.0 cr)
COG 4900 - Cognitive Science Seminar (4.0 cr)

Electives (21 cr)

Students are advised to review course pre-requisites for upper division electives and plan accordingly.

Seven courses across the listed subject areas with the following stipulations:

Four courses maximum may come from any one listed subject area.

Courses must draw from at least THREE different listed subject areas.
Take 7 or more course(s) from the following:

Cognitive Science

Two different topic courses may be applied.
Take 0 - 4 course(s) from the following:
•COG 3195 - Special Topics in Cognitive Science:(Various Titles to be Assigned) (3.0 cr)
•COG 3xxx-4xxx

•Communication Sciences and Disorders

Take 0 - 2 course(s) from the following:
•CSD 2230 - Introduction to Human Communication Disorders [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•CSD 4150 - Neuroanatomy and Neurophysiology in Communication Sciences and Disorders (3.0 cr)

•Computer Science

Take 0 - 3 course(s) from the following:
•CS 4222 - Artificial Intelligence (4.0 cr)
•CS 4232 - Machine Learning & Data Mining (4.0 cr)
•CS 4242 - Natural Language Processing (4.0 cr)

•Linguistics

Take 0 - 4 course(s) from the following:
•LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
•LING 3102 - Syntax (3.0 cr)
•LING 3103 - Semantics and Pragmatics (3.0 cr)
•LING 4103 - Morphology: Word Structures and Rules (3.0 cr)

•Medicine

Take 0 - 1 course(s) from the following:
•BMS 5101 - Principles of Neuroscience (4.0 cr)

•Philosophy

Take 0 - 4 course(s) from the following:
•PHIL 1018 - Logic [LE CAT2, LOGIC & QR] (4.0 cr)
•PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)

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- PHIL 3570 - Philosophy of Psychology (4.0 cr)
- PHIL 3575 - Philosophy and Cognitive Science (3.0 cr)

•Psychology

Take 0 - 4 course(s) from the following:

- PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
- PSY 3061 - Physiological Psychology (4.0 cr)
- PSY 3121 - Abnormal Psychology (4.0 cr)
- PSY 3520 - Introduction to Industrial/Organizational Psychology (4.0 cr)
- PSY 3611 - Learning and Behavior (4.0 cr)
- PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
- PSY 3621 - Cognition (4.0 cr)
- PSY 3661 - Psychology of Language (3.0 cr)
- PSY 3697 - Sensation and Perception (4.0 cr)
- PSY 5130 - Evolutionary Psychology (3.0 cr)
- PSY 5131 - Mind-Body Connection (3.0 cr)
- PSY 5621 - Cognition and Emotion (3.0 cr)
- PSY 5631 - Biological Bases of Behavior (3.0 cr)

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Duluth Campus

Cognitive Science Minor

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

Cognitive science is the interdisciplinary attempt to understand the mind, especially the human mind (with the prospect of creating artificial minds coming in a close second).

Understanding the mind and intelligence has long been a goal that seemed out of reach. The mind, consciousness, intelligence, and the related phenomena have been addressed by researchers in many areas including philosophy, psychology, linguistics, medicine, neuroscience, and artificial intelligence. These disciplines have very different histories and at universities are often separated by distance and academic culture. However, in the past 30 years, there has been a convergence of these disciplines on a few research paradigms: computational models of perception and reasoning, connectionism, and embodied cognition. It is now possible to form a more complete understanding of minds by drawing on contributions from all these disciplines, and a great deal of progress has been made. This has led to the rise at many universities of interdisciplinary programs in Cognitive Science. The programs exploit the insights that come from a variety of disciplinary approaches to understanding a single phenomenon: cognition.

More specifically, Cognitive Science aims to understand the nature and development of such intelligent capacities as consciousness, perception, information processing, language acquisition and processing, planning, reasoning, learning, representation and use of knowledge, and problem-solving, whether these capacities are realized in biological or artificial systems. The minor looks to the theoretical foundations, the substantive empirical results, and the methodological tools of the contributing disciplines of linguistics, computer science, philosophy, and psychology. The hope of cognitive science is that by combining the methods and results of all these branches, we will be able to provide a global understanding of the mind, how it works, and why it works that way.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (3 cr)

PHIL 1025 - Introduction to Cognitive Science [NAT SCI] (3.0 cr)

Electives (15 cr)

Students are advised to review course prerequisites for upper-division electives and plan accordingly.
Five courses across the listed subject areas.
Two courses maximum may come from any one listed subject area.
Take 5 or more course(s) from the following:

Cognitive Science

Two different topic courses may be applied.
Take 0 - 2 course(s) from the following:
- COG 3195 - Special Topics in Cognitive Science:(Various Titles to be Assigned) (3.0 cr)
- COG 4900 - Cognitive Science Seminar (4.0 cr)
- COG 3xxx-4xxx

Communication Sciences and Disorders

Take 0 - 2 course(s) from the following:
- CSD 2230 - Introduction to Human Communication Disorders [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- CSD 4150 - Neuroanatomy and Neurophysiology in Communication Sciences and Disorders (3.0 cr)

Computer Science

Take 0 - 2 course(s) from the following:
- CS 4222 - Artificial Intelligence (4.0 cr)
- CS 4232 - Machine Learning & Data Mining (4.0 cr)
- CS 4242 - Natural Language Processing (4.0 cr)

Linguistics

Take 0 - 2 course(s) from the following:
- LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
- LING 3102 - Syntax (3.0 cr)

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- LING 3103 - Semantics and Pragmatics (3.0 cr)
- LING 4103 - Morphology: Word Structures and Rules (3.0 cr)

•Medicine

Take 0 - 1 course(s) from the following:

- BMS 5101 - Principles of Neuroscience (4.0 cr)

•Philosophy

Take 0 - 2 course(s) from the following:

- PHIL 1018 - Logic [LE CAT2, LOGIC & QR] (4.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PHIL 3570 - Philosophy of Psychology (4.0 cr)
- PHIL 3575 - Philosophy and Cognitive Science (3.0 cr)

•Psychology

Take 0 - 2 course(s) from the following:

- PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
- PSY 3061 - Physiological Psychology (4.0 cr)
- PSY 3121 - Abnormal Psychology (4.0 cr)
- PSY 3520 - Introduction to Industrial/Organizational Psychology (4.0 cr)
- PSY 3611 - Learning and Behavior (4.0 cr)
- PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
- PSY 3621 - Cognition (4.0 cr)
- PSY 3661 - Psychology of Language (3.0 cr)
- PSY 3697 - Sensation and Perception (4.0 cr)
- PSY 5130 - Evolutionary Psychology (3.0 cr)
- PSY 5131 - Mind-Body Connection (3.0 cr)
- PSY 5621 - Cognition and Emotion (3.0 cr)
- PSY 5631 - Biological Bases of Behavior (3.0 cr)

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Duluth Campus

Communication B.A.

Communication

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 46
- Degree: Bachelor of Arts

At the core of the communication discipline is a concern for the relationship between symbolic action (speaking, writing, etc.) and social change. This communication program emphasizes the breadth and diversity of the communication field, with an integrated focus that spans social scientific and cultural/historical methodologies. Students develop conceptual and research competence in the areas of interpersonal communication, mass media, and rhetorical theory and practice.

Honors Requirements: Candidates must be communication majors with a 3.30 GPA in all communication courses and 3.30 U of MN GPA overall. Students write an honors-quality paper sponsored by a communication faculty member and approved by two additional communication faculty. Candidates apply before the end of the first four weeks of their senior year. Contact the department head or faculty advisor for more information.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

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UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (15 cr)
Students must complete all Core courses with a C or better.
COMM 1000 - Human Communication Theory [LE CAT, SOC SCI] (3.0 cr)
COMM 1020 - Communicating Difference: An Introduction to Race, Power, and Identity in Communication (3.0 cr)
COMM 2025 - Communication Inquiry: Rhetorical and Historical Methods (3.0 cr)
COMM 2030 - Communication Inquiry: Social Scientific Methods (3.0 cr)
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1511 - Honors: Public Speaking [LE CAT3, COMM & LAN] (3.0 cr)

Seminar (3 cr)
Students must have a declared Communication major, complete all Core Courses with a C or better, and be at senior status (90 credits) to be admitted to Seminar. Instructor consent is required prior to registration. The prerequisites are verified by the department prior to the start of every term. Students not satisfying any prerequisite are notified by email.
COMM 4999 - Seminar (3.0 cr)

Distributed Electives (9 cr)
Take at least one course from each area. Additional courses taken will apply to the Electives area below.
Interpersonal Communication
Take 1 or more course(s) from the following:
•COMM 3200 - Interpersonal Communication Theory (3.0 cr)
•COMM 3205 - Relationship Communication (3.0 cr)
•COMM 3210 - Group Communication (3.0 cr)
•COMM 3225 - Listening Across Difference (3.0 cr)
•COMM 3230 - Mindful Communication (3.0 cr)
•COMM 3270 - Emotion and Relationships (3.0 cr)
•COMM 3295 - Special Topics: Interpersonal Communication (3.0 cr)
•COMM 3400 - Health Communication (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3700 - Interpersonal Influence (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•COMM 4220 - Interpersonal Communication & Health Outcomes (3.0 cr)
Media Studies
Take 1 or more course(s) from the following:
•COMM 2101 - Foundations of Mass Communication [LE CAT8, SOC SCI] (3.0 cr)
•COMM 3211 - Communication and Technology in the Information Age (3.0 cr)
•COMM 3405 - Health Campaigns (3.0 cr)
•COMM 3505 - Media Communications (3.0 cr)
•COMM 3515 - Communication and Popular Culture (3.0 cr)
•COMM 3520 - Media Effects [SOC SCI] (3.0 cr)
•COMM 3530 - Dark Side of Media and Communication (3.0 cr)
•COMM 3540 - Media in Africa (3.0 cr)
•COMM 3550 - Children and Media (3.0 cr)
•COMM 3560 - Video Game Entertainment (3.0 cr)
•COMM 3595 - Special Topics: Media Communication (3.0 cr)
•COMM 4505 - Media Theory and Research (3.0 cr)
Rhetoric
Take 1 or more course(s) from the following:
•COMM 3115 - Persuasion and Argumentation in Public Speaking (3.0 cr)
•COMM 3510 - Ethics in Human Communication (3.0 cr)
•COMM 3610 - Philosophy and Rhetoric [HUMANITIES] (3.0 cr)
•COMM 3612 - Rhetorical Criticism (3.0 cr)
•COMM 3615 - Analysis of Public Discourse (3.0 cr)
•COMM 3620 - Controversy in the Boundary Waters [SUSTAIN] (3.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 3695 - Special Topics: Rhetoric Communication (3.0 cr)
•COMM 4500 - History of Rhetoric (3.0 cr)

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Electives (15 cr)

Additional courses taken within the Distributed Electives areas will apply to these areas. To satisfy this requirement, students may apply 2 courses at the COMM 1xxx-2xxx level. Students must take a minimum of 3 courses/9 credits from COMM 3xxx level or above courses. Students have the option to complete this requirement by taking all courses at the COMM 3xxx level or above. (COMM 3300-TA does not apply to the major but does apply to the overall degree.)

Optional Electives

Take 0 - 2 course(s) from the following:

- COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
- COMM 1500 - Media and Society [LE CAT8, HUMANITIES] (3.0 cr)
- COMM 1600 - Argumentation and Debate: A Practical Approach [LOGIC & QR] (3.0 cr)
- COMM 1xxx-2xxx

Required Electives

Take 3 - 5 course(s) from the following:

- COMM 3116 - Professional Communication (3.0 cr)
- COMM 3215 - Conflict Management (3.0 cr)
- COMM 3223 - Communication and Creativity (3.0 cr)
- COMM 3395 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- COMM 3525 - Deciding What's News (3.0 cr)
- COMM 3555 - Mass Media Addiction (3.0 cr)
- COMM 3800 - Community Empowerment in South India - Study Abroad [GLOBAL PER] (4.0 cr)
- COMM 4100 - Environmental Communication (3.0 cr)
- COMM 3xxx-4xxx

Optional Experiences

A maximum of 3 credits from any combination of the following courses will apply to the Electives requirement.

Take 0 - 3 credit(s) from the following:

- COMM 3310 - Research Assistant in Communication (1.0 - 6.0 cr)
- COMM 4394 - Directed Research in Communication (1.0 - 6.0 cr)
- COMM 4397 - Internship in Communication (1.0 - 8.0 cr)
- COMM 4399 - Directed Projects in Communication (1.0 - 6.0 cr)
- COMM 5391 - Independent Study in Communication (1.0 - 6.0 cr)

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Duluth Campus

Communication Minor

Communication

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 24

The communication minor emphasizes the breadth and diversity of the communication field (interpersonal communication, mass media, and rhetorical theory and practice).

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (9 cr)

Students must complete the following courses with a C or better.

COMM 1000 - Human Communication Theory [LE CAT, SOC SCI] (3.0 cr)
COMM 1020 - Communicating Difference: An Introduction to Race, Power, and Identity in Communication (3.0 cr)
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1511 - Honors: Public Speaking [LE CAT3, COMM & LAN] (3.0 cr)

Distributed Electives (9 cr)

Take at least one course from each of the following areas. Additional courses taken will be applied to the Electives area.

Interpersonal Communication

Take 1 or more course(s) from the following:

- COMM 3200 - Interpersonal Communication Theory (3.0 cr)
- COMM 3205 - Relationship Communication (3.0 cr)
- COMM 3210 - Group Communication (3.0 cr)
- COMM 3225 - Listening Across Difference (3.0 cr)
- COMM 3230 - Mindful Communication (3.0 cr)
- COMM 3270 - Emotion and Relationships (3.0 cr)
- COMM 3295 - Special Topics: Interpersonal Communication (3.0 cr)
- COMM 3400 - Health Communication (3.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- COMM 3700 - Interpersonal Influence (3.0 cr)
- COMM 4210 - Theories of Intercultural Communication (3.0 cr)
- COMM 4220 - Interpersonal Communication & Health Outcomes (3.0 cr)

or **Media Studies**

Take 1 or more course(s) from the following:

- COMM 2101 - Foundations of Mass Communication [LE CAT8, SOC SCI] (3.0 cr)
- COMM 3211 - Communication and Technology in the Information Age (3.0 cr)
- COMM 3405 - Health Campaigns (3.0 cr)
- COMM 3505 - Media Communications (3.0 cr)
- COMM 3515 - Communication and Popular Culture (3.0 cr)
- COMM 3520 - Media Effects [SOC SCI] (3.0 cr)
- COMM 3530 - Dark Side of Media and Communication (3.0 cr)
- COMM 3540 - Media in Africa (3.0 cr)
- COMM 3550 - Children and Media (3.0 cr)
- COMM 3560 - Video Game Entertainment (3.0 cr)
- COMM 3595 - Special Topics: Media Communication (3.0 cr)
- COMM 4505 - Media Theory and Research (3.0 cr)

or **Rhetoric**

Take 1 or more course(s) from the following:

- COMM 3115 - Persuasion and Argumentation in Public Speaking (3.0 cr)
- COMM 3510 - Ethics in Human Communication (3.0 cr)
- COMM 3610 - Philosophy and Rhetoric [HUMANITIES] (3.0 cr)
- COMM 3612 - Rhetorical Criticism (3.0 cr)

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•COMM 3615 - Analysis of Public Discourse (3.0 cr)
•COMM 3620 - Controversy in the Boundary Waters [SUSTAIN] (3.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 3695 - Special Topics: Rhetoric Communication (3.0 cr)
•COMM 4500 - History of Rhetoric (3.0 cr)

Electives (6 cr)

Additional courses taken within the Distributed Electives areas will apply to this area. To satisfy this requirement, students may take 1 course at the COMM 1xxx-2xxx level. Students must take a minimum of 1 course/3 credits from COMM 3xxx level or above courses. Students have the option to complete this requirement by taking all courses at the COMM 3xxx level or above.

Optional Elective

Take 0 - 1 course(s) from the following:
•COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
•COMM 1500 - Media and Society [LE CAT8, HUMANITIES] (3.0 cr)
•COMM 1600 - Argumentation and Debate: A Practical Approach [LOGIC & QR] (3.0 cr)
•COMM 2025 - Communication Inquiry: Rhetorical and Historical Methods (3.0 cr)
•COMM 2030 - Communication Inquiry: Social Scientific Methods (3.0 cr)
•COMM 1xxx-2xxx

Required Electives

NOTE: COMM 3300, 3310, 4394, 4397, 4399, 4999 & 5391 do not apply to the minor, but do apply as elective credit(s) toward the degree.

Take 1 - 2 course(s) from the following:
•COMM 3116 - Professional Communication (3.0 cr)
•COMM 3215 - Conflict Management (3.0 cr)
•COMM 3223 - Communication and Creativity (3.0 cr)
•COMM 3395 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
•COMM 3525 - Deciding What's News (3.0 cr)
•COMM 3555 - Mass Media Addiction (3.0 cr)
•COMM 3800 - Community Empowerment in South India - Study Abroad [GLOBAL PER] (4.0 cr)
•COMM 4100 - Environmental Communication (3.0 cr)
•COMM 3xxx-4xxx

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Duluth Campus

Creative Writing Certificate

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 15 to 17
- Degree: Creative Writing Certificate

This certificate program offers students the opportunity to develop their writing ability in a range of creative genres, including fiction, poetry, creative nonfiction, and new media writing. This program is a flexible way for students with any major to develop creativity and a passion for writing. Courses in the certificate sequence provide a series of student-centered workshop experiences in which writers receive constructive, supportive feedback from peers and instructors on their work. Creative writing courses meet students where they are, helping them to set individualized goals and grow as writers. Students may complement their craft courses with additional coursework in aesthetic or professional practice.

At the end of the program, students prepare a portfolio of their work and, with the guidance of a faculty advisor, craft a letter that introduces their work to prospective literary agents, editors, and publication venues. Students who wish to share their work may also participate in celebratory public readings held yearly.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 30 credits before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Foundations (14-16 cr)

Take 4 or more course(s) totaling 14 or more credit(s) from the following:

- ENGL 2800 - Nature Writing [HUMANITIES] (4.0 cr)
- ENGL 3115 - Writing Fiction (4.0 cr)
- ENGL 3121 - Writing Poetry (4.0 cr)
- ENGL 4116 - Advanced Writing of Fiction (4.0 cr)

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•ENGL 4122 - Advanced Writing of Poetry (4.0 cr)
•WRIT 1006 - Journal and Memoir Writing [LE CAT] (3.0 cr)
•WRIT 4250 - New Media Writing (3.0 cr)

Capstone (1 cr)
ENGL 4901 - Creative Writing Capstone (1.0 cr)

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Duluth Campus

Criminology B.A.

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 42
- Degree: Bachelor of Arts

Criminology is the study of crime and criminal behavior. The criminology program focuses on crime as a social phenomenon and the causes of criminal behavior. The major provides an overview of institutions, issues and causes of crime, and social control; it also offers a strong foundation in liberal arts, a basic knowledge of behavioral sciences, and a strong professional growth potential for those pursuing a career in criminology or the criminal justice system. Many criminology majors enter law, law enforcement, corrections, and other social service careers or graduate school.

Honors requirements: The department honors program recognizes majors who demonstrate outstanding academic performance, provides special educational opportunities for such students, and encourages the development of specialty areas within the major. Honors students participate in independent research, working closely with a faculty member. Qualified majors apply to the honors program before the end of the second week of the first semester of their senior year.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 or 3160 are recommended.
WRIT 31xx - Adv Writing (3 cr)

Lower Division Core (12 cr)
A grade of C or better is required in each course.
CRIM 1301 - Introduction to Criminology [LE CAT8, SOC SCI] (4.0 cr)
CRIM 2311 - Criminological Theory (4.0 cr)
SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)

Upper Division Core (11 cr)
After successfully completing SOC 4587, a student must wait at least one semester before registering for SOC 4597. Students intern in a setting related to their career interests. Take SOC 4597 for at least 6 credits. (Students also majoring in psychology may request to substitute PSY 3020 for SOC 3155. See the department head for approval.)
SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
SOC 4587 - Internship Preparation (1.0 cr)
SOC 4597 - Internship (6.0 - 8.0 cr)

Inequality Course (3 cr)
Students take at least one course listed below to fulfill this requirement. If both CRIM inequality courses are taken, one course will apply as elective credit toward the major.
Take 1 or more course(s) from the following:
•CRIM 4323 - Women and Justice (3.0 cr)
•CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
•SOC 3330 - The U.S. Civil Rights Movement [SOC SCI, CDIVERSITY] (3.0 cr)
•SOC 3945 - Social Stratification (3.0 cr)
•SOC 4947 - Sociology of Gender (3.0 cr)
•SOC 4949 - Race and Ethnic Relations (3.0 cr)

Criminology Electives (9 cr)
Take 3 or more course(s) from the following:
•CRIM 3322 - Law and Society (3.0 cr)
•CRIM 3324 - Sociology of Criminal Law (3.0 cr)
•CRIM 3328 - Delinquency and Juvenile Justice (3.0 cr)
•CRIM 3336 - Crime and the Media (3.0 cr)
•CRIM 3338 - Sociology of Gangs (3.0 cr)
•CRIM 3340 - Crime Prevention (3.0 cr)
•CRIM 3344 - Law Enforcement and Society (3.0 cr)
•CRIM 3350 - Psychopathology and Crime (3.0 cr)
•CRIM 3361 - Correctional Continuum (3.0 cr)
•CRIM 3369 - Correctional Assessment and Intervention (3.0 cr)
•CRIM 3375 - Restorative Justice (3.0 cr)
•CRIM 3380 - Death Penalty (3.0 cr)
•CRIM 3395 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
•CRIM 4305 - Mentally Ill Offenders in the Criminal Justice System (3.0 cr)
•CRIM 4350 - Corporate and Government Crime (3.0 cr)
•CRIM 4382 - Victimology (3.0 cr)
•CRIM 4384 - Child Abuse and Child Protection in Minnesota (3.0 cr)
•CRIM 4930 - Understanding Violence (3.0 cr)
•CRIM 3355 - Criminal Forensic Psychology (3.0 cr)
or PSY 5155 - Forensic Psychology (3.0 cr)
•CRIM 3xxx-4xxx
•**Optional Experience**
Take 0 - 6 credit(s) from the following:
•CRIM 4391 - Independent Study in Criminology (1.0 - 3.0 cr)
•CRIM 4399 - Honors Project Criminology (1.0 - 3.0 cr)
•CRIM 4910 - Teaching Assistantship in Criminology (1.0 - 3.0 cr)

Additional Required Elective (3 cr)

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Take 1 or more course(s) from the following:
•ANTH 3xxx-4xxx
or CRIM 3xxx-4xxx

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Information current as of January 17, 2023

Duluth Campus

Cultural Entrepreneurship B.A.

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 45
- Degree: Bachelor of Arts

Cultural entrepreneurship is an emerging academic discipline that examines how cultural products traditionally associated with the fine and liberal arts, such as art, theater, poetry, and literature, but also cultural activities such as sports, music, food, and film events, are having an increasingly important impact on the growth of local, national, and global economies. Cultural entrepreneurship scholars thus study the impact of culture on economies and develop new strategies for enhancing local livelihoods by creative, new, sustainable, socially responsible ways of producing income through cultural activity.

The program stresses the centrality of culture in the success of entrepreneurial endeavors. Building on the concept of cognitive ambidexterity, it combines training in quantitative skills and predictive logic that is common in business schools with extensive work in creative logic and thinking, as it is most often cultivated in the liberal arts. Predictive logic refers to the ability to generate models, forecasts, and estimates, while creative logic addresses the ability to self-examine, understand social contexts, and to shape the future by identifying courses of action and negotiating complexities of human decision-making.

Students in this program will complete an extensive core of entrepreneurship, management and conceptual competency in the culture and creative economy. Students develop cultural literacy through the study of at least one World or Indigenous language. Students can choose one of the two sub-plans: certificate of business administration or leadership development.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Study abroad is encouraged for all students and the department makes every effort to support such experiences. Students are

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advised to visit with the CUE program director about how courses abroad may be incorporated into this program.
3. The program encourages students to take internship and field study courses during their junior or senior years. Students are advised to visit with the CUE program director to discuss internship opportunities.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (18 cr)
Creative Economy
CUE 1001 - Culture Industry and Creative Economy [GLOBAL PER] (3.0 cr)
CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
CUE 4002 - Managing Cultural Organizations (3.0 cr)
Conceptual Competency
CUE 1111 - Creative Problem Solving (3.0 cr)
CUE 3101 - Introduction to Design Thinking and Conceptual Competencies (3.0 cr)

Environmental Foundations (3 cr)
Take 1 or more course(s) from the following:
•CUE 4003 - Entrepreneurial Ethics and Values (3.0 cr)
•ES 3200 - Environmental and Ecological Justice (3.0 cr)
•ES 3500 - Ecological Economics (3.0 cr)
•GEOG 2313 - Economic Geography [LE CAT6, SOC SCI] (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)

Experiential Learning (1 cr)
Some courses are only offered in the summer.
Take 1 or more course(s) from the following:
•CUE 4091 - Independent Study (1.0 - 4.0 cr)
•CUE 4096 - Field Study (2.0 cr)
•CUE 4097 - Internship (2.0 cr)

World Languages and Cultural Literacy Foundations (3 cr)
Through advisement and approval by the CUE program director students select one of the following options:
A) Complete the intermediate level sequence in a World Language & TWO 2xxx or 3xxx level courses taught in the same language.
B) Complete the intermediate level sequence in ONE World Language & TWO World Language courses taught in English.
C) Complete the beginning level sequence in TWO World Languages & TWO World Language courses taught in English.
Take 1 or more course(s) from the following:
•Students must complete at least 3 credits to satisfy this requirement. Once one of the above options is completed, students request approval from the CUE program director and submit the 'CUE lang/culture form' found here: z.umn.edu/umdcahssprograms

Program Sub-plans
Students are required to complete one of the following sub-plans.

Certificate of Business Administration
After the successful completion of this sub-plan, students will receive a Certificate of Business Administration from LSBE. These courses are provided in an online format and can be taken in any order. See class search for variable start dates of courses (1st half, 2nd half or full-term). Up to two of the following courses may be substituted with equivalent classroom classes. For additional changes or course substitutions, students must meet with the CUE program director.

Once all courses are complete students must apply to receive the certificate, application details here: z.umn.edu/umdcert

Certificate of Business Administration (16 cr)

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BUS 2100 - Fundamentals of Accounting (2.0 cr)
BUS 2200 - Fundamentals of Economics (2.0 cr)
BUS 2300 - Fundamentals of Operations Management (2.0 cr)
BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
BUS 2500 - Fundamentals of Applied Statistics (2.0 cr)
BUS 2600 - Fundamentals of Financial Management (2.0 cr)
BUS 2700 - Fundamentals of Marketing (2.0 cr)
BUS 2800 - Fundamentals of Human Resource Management (2.0 cr)

Leadership Development

This sub-plan combines studies of entrepreneurship and management in the creative economy, language, and cultural competencies and leadership development theory and practice. This track is particularly suited for students who intend to pursue the UMD Leadership Certificate with an emphasis on organizational leadership through the UMD Kirby Leadership Institute.

Take all the following courses. CUE program director approval is required for any course substitutions.

Leadership Development Core (9 cr)
AMIN 3820 - Fundamentals of Tribal Project Management (3.0 cr)
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
PSY 3211 - Group Dynamics (3.0 cr)
Leadership Development Foundations (7 cr)
Organization
PSY 3520 - Introduction to Industrial/Organizational Psychology (4.0 cr)
or SOC 3831 - Organizations and Society (4.0 cr)
Leadership
CUE 4201 - Leadership Theory and Practice (3.0 cr)
or MGTS 4431 - Leadership Studies (3.0 cr)

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Duluth Campus

Dance Minor

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 23 to 31

Dance technique courses are offered in ballet, modern, jazz, and tap, and are complemented with courses in dance appreciation, dance history, dance composition, and/or related academic areas. The Dance Studies Emphasis provides students an in-depth appreciation of dance as a performance and social art form, while the Applied Dance Emphasis offers experienced dancers opportunities to further develop technique, artistry, and knowledge of the field. Annual dance concerts provide opportunities for performance and choreography.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Students should confer with a faculty adviser from the Department of Theatre to develop a sound schedule for taking courses to complete the minor in less than four years. Students are advised to note prerequisites and to take courses in proper sequence. Some courses are repeatable and students are encouraged to repeat courses to develop their technique.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Applied Dance

Core (9 cr)

DN 1001 - Introduction to the World of Dance [LE CAT, FINE ARTS, GLOBAL PER] (3.0 cr)
DN 3401 - Dance Composition (3.0 cr)
DN 3611 - Dance History (3.0 cr)

Technique Core (8 cr)

Students with previous dance study may be exempt from some beginning level technique requirements and should consult the department about placement.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- DN 1111 - Jazz Dance Technique I [LE CAT, FINE ARTS] (2.0 cr)
- DN 1121 - Tap Dance Technique I (2.0 cr)
- DN 1131 - Ballet Technique I [LE CAT, FINE ARTS] (2.0 cr)
- DN 1151 - Modern Dance Technique I [LE CAT, FINE ARTS] (2.0 cr)

Technique Foundations (14 cr)

Intermediate Level Technique

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- DN 2101 - Physical Conditioning for Dance (1.0 cr)
- DN 2111 - Jazz Dance Techniques II [FINE ARTS] (2.0 cr)
- DN 2131 - Ballet Technique II [FINE ARTS] (2.0 cr)
- DN 2151 - Modern Dance Technique II (2.0 cr)
- DN 3202 - Improvisation for Dance (2.0 cr)
- DN 3211 - Jazz Dance Technique III (2.0 cr)
- DN 3231 - Ballet Technique III (2.0 cr)

Intermediate/Advanced Level Technique

Take 3 or more course(s) totaling 6 or more credit(s) from the following:

- DN 3221 - Tap Dance Technique II (2.0 cr)
- DN 3241 - Social Dance for the Stage (1.0 cr)
- DN 3251 - Modern Dance Technique III (2.0 cr)
- DN 3995 - Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
- DN 4311 - Jazz Dance Technique IV (2.0 cr)
- DN 4331 - Ballet Technique IV (2.0 cr)

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Dance Studies

Core (9 cr)

DN 1001 - Introduction to the World of Dance [LE CAT, FINE ARTS, GLOBAL PER] (3.0 cr)
DN 3611 - Dance History (3.0 cr)
DN 3995 - Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
or TH 1071 - Musical Theatre History [LE CAT, HUMANITIES] (3.0 cr)

Technique Core (8 cr)

Students with previous dance study may be exempt from some beginning level technique requirements and should consult the department about placement.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- DN 1111 - Jazz Dance Technique I [LE CAT, FINE ARTS] (2.0 cr)
- DN 1121 - Tap Dance Technique I (2.0 cr)
- DN 1131 - Ballet Technique I [LE CAT, FINE ARTS] (2.0 cr)
- DN 1151 - Modern Dance Technique I [LE CAT, FINE ARTS] (2.0 cr)

Technique Foundations (6 cr)

Take 3 or more course(s) totaling 6 or more credit(s) from the following:

- DN 2101 - Physical Conditioning for Dance (1.0 cr)
- DN 2111 - Jazz Dance Techniques II [FINE ARTS] (2.0 cr)
- DN 2131 - Ballet Technique II [FINE ARTS] (2.0 cr)
- DN 2151 - Modern Dance Technique II (2.0 cr)
- DN 3202 - Improvisation for Dance (2.0 cr)
- DN 3211 - Jazz Dance Technique III (2.0 cr)
- DN 3231 - Ballet Technique III (2.0 cr)

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Duluth Campus

Digital Writing, Literature and Design Minor

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 19

This minor offers students contemporary, online skills in writing, design, and visual analysis combined with an informed understanding of the culture, history, and critical interpretation of digital texts such as video games. This synthesis of the humanities with information technologies helps prepare students for a wide variety of professional pursuits in the networked, creative economy, as well as graduate study in digital humanities and new media studies.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (10 cr)

WRIT 1506 - Literacy, Technology and Society [LE CAT, HUMANITIES] (3.0 cr)
WRIT 4250 - New Media Writing (3.0 cr)
ENGL 4270 - Digital Literature, Video Games and Online Culture (4.0 cr)

Foundations (3 cr)

WRIT 4230 - Web Design and Digital Culture (3.0 cr)
or WRIT 4260 - Visual Narrative and Analytical Design (3.0 cr)

Electives (6 cr)

Excludes WRIT 1120 and any WRIT 31xx-Advanced Writing course.
Take 2 or more course(s) from the following:
•ENGL 1xxx-4xxx
•WRIT 1xxx-4xxx

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Duluth Campus

English B.A.

English

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 37 to 38
- Degree: Bachelor of Arts

The English major develops student knowledge of literature and culture within English, American, and global contexts. Our students learn to read perceptively, think critically and creatively, write clearly and effectively, and engage meaningfully with the complex societies in which they live.

As a liberal arts program, the English major provides students with both knowledge and a set of transferable skills valued in a wide range of professions. While some UMD English graduates each year go on to teach English or attend graduate school in English, the majority find employment in other fields. Recent graduates of UMD's English program have been accepted in various courses of graduate study including law, medicine, business, neuroscience, theology, and library science. Other graduates have found success in the following fields and roles: small business owner, editor, producer of plays, health claims representative, sales consultant, office manager, journalist, writer, property manager, bookkeeper, and assistant account executive.

Honors Requirements: Candidates must have a 3.20 overall GPA and 3.40 in the major. An honors paper or creative writing project must be completed in a 4xxx course or through independent study. Completed projects and papers must be approved by a sponsoring faculty member and the department honors committee. Students who wish to qualify for honors must contact the department at least one semester before graduation.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. You do not need to take Advanced writing. This requirement is met by courses within the major.

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3. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Introductory Foundations (3-4 cr)

Take 1 or more course(s) from the following:

- ENGL 1535 - King Arthur in History, Literature, and Art [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1583 - Introductory Study of Major Topics in Contemporary African Literature [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1585 - Australian and New Zealand Literature and Culture [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1666 - Tales of Terror [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 1777 - Crime and Detective Fiction [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 1818 - Science Fiction in Film and Literature [HUMANITIES] (4.0 cr)
- ENGL 1907 - Introduction to Literature [LE CAT, HUMANITIES] (3.0 cr)
- ENGL 2333 - Harry Potter: Texts and Contexts [HUMANITIES] (4.0 cr)
- ENGL 2535 - The Bible in Literature, Art and History [HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 2571 - Contemporary Literature [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 2601 - Reading Film [HUMANITIES] (4.0 cr)
- ENGL 2800 - Nature Writing [HUMANITIES] (4.0 cr)
- ENGL 1xxx-2xxx

Core (5 cr)

ENGL 2906 - Methods of Literary Study (4.0 cr)
ENGL 4909 - Senior Portfolio (1.0 cr)

English Literature Foundations (16 cr)

Take four courses from among the following four areas. One course from the American and British Literature Survey areas are required. ENGL 4591 (Independent Study) and ENGL 4595 (Special Topics) may apply to an area with departmental approval.

American Literature Survey

Take 1 - 2 course(s) from the following:

- ENGL 3563 - American Literature I [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3564 - American Literature II [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3573 - Survey of African American Literature [HUMANITIES, CDIVERSITY] (4.0 cr)

British Literature Survey

Take 1 - 2 course(s) from the following:

- ENGL 3501 - British Literature I [HUMANITIES] (4.0 cr)
- ENGL 3502 - British Literature II [HUMANITIES] (4.0 cr)

Early Period Literature

Take 0 - 1 course(s) from the following:

- ENGL 3223 - Shakespeare [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 4222 - Shakespeare (4.0 cr)
- ENGL 4295 - Special Topics in Early Period Literature (Various Titles to be Assigned) (4.0 cr)
- ENGL 4312 - Chaucer (4.0 cr)
- ENGL 4533 - Studies in English Literature Before 1800 (4.0 cr)
- ENGL 4541 - Restoration and 18th-Century Literature (4.0 cr)
- ENGL 4572 - American Renaissance (4.0 cr)
- ENGL 4574 - Studies in American Literature to 1914 (4.0 cr)
- ENGL 4661 - Publishing the Middle Ages (4.0 cr)
- ENGL 4662 - The Making of a Major Author: The Scholarly Edition in 17th- and 18th-Century England (4.0 cr)

Later Period Literature

Take 0 - 1 course(s) from the following:

- ENGL 3574 - Reconstituting the Past in African Diaspora Literature (4.0 cr)
- ENGL 4395 - Special Topics in Late-Period Literature (various titles to be assigned) (4.0 cr)
- ENGL 4562 - Studies in 19th-Century British Literature (4.0 cr)
- ENGL 4564 - Studies in British Literature after 1900 (4.0 cr)
- ENGL 4575 - Studies in American Literature after 1914 (4.0 cr)
- ENGL 4584 - Mapping Postcolonial Literature (4.0 cr)

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•ENGL 4663 - Readers and the History of Books (4.0 cr)
•ENGL 4665 - The American Literary Marketplace (4.0 cr)

Genre and Media Studies Foundations (4 cr)
Take 1 or more course(s) from the following:
•ENGL 3115 - Writing Fiction (4.0 cr)
•ENGL 3121 - Writing Poetry (4.0 cr)
•ENGL 3333 - Children's Literature: Texts and Contexts (4.0 cr)
•ENGL 3411 - The Modern Short Story (4.0 cr)
•ENGL 3605 - The Irish Landscape in Science and Literature - Study Abroad [GLOBAL PER] (4.0 cr)
•ENGL 4292 - Literature into Film (4.0 cr)
•ENGL 4300 - Shakespeare in England - Study Abroad [GLOBAL PER] (4.0 cr)
•ENGL 4375 - Drama (4.0 cr)
•ENGL 4270 - Digital Literature, Video Games and Online Culture (4.0 cr)
•ENGL 4374 - Modern Poetry (4.0 cr)
•ENGL 4495 - Special Topics in Genre and Media Studies (various titles to be assigned) (4.0 cr)
•ENGL 4580 - The Novel (4.0 cr)

Supporting Foundations (8 cr)
Choose from the 4xxx courses listed above that are not fulfilling other requirements as well as from the following courses. Students may apply a maximum of 4 credits from the Optional Experience area to this requirement. This requirement excludes ENGL 4901, 4902, 4922, 4931.
Take 1 - 2 course(s) from the following:
•ENGL 4802 - English Language for Educators (4.0 cr)
•ENGL 4116 - Advanced Writing of Fiction (4.0 cr)
•ENGL 4122 - Advanced Writing of Poetry (4.0 cr)
•ENGL 4444 - Childhood in Literature, History and Culture (4.0 cr)
•ENGL 4577 - Major American Authors (4.0 cr)
•ENGL 4821 - History of the English Language (4.0 cr)
•ENGL 4xxx
•**Optional Experience**
Take 0 - 4 credit(s) from the following:
•ENGL 4097 - Internship for English Majors (1.0 - 4.0 cr)
•ENGL 4591 - Independent Study (1.0 - 4.0 cr)
•ENGL 4595 - Special Topics: (Various Titles to be Assigned) (4.0 cr)

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Duluth Campus

English Minor

English

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 19 to 20

This minor introduces students to a wide range of American, British, and world literatures.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (3-4 cr)

Take 1 or more course(s) from the following:

- ENGL 1535 - King Arthur in History, Literature, and Art [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1583 - Introductory Study of Major Topics in Contemporary African Literature [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1585 - Australian and New Zealand Literature and Culture [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 1666 - Tales of Terror [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 1777 - Crime and Detective Fiction [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 1818 - Science Fiction in Film and Literature [HUMANITIES] (4.0 cr)
- ENGL 1907 - Introduction to Literature [LE CAT, HUMANITIES] (3.0 cr)
- ENGL 2333 - Harry Potter: Texts and Contexts [HUMANITIES] (4.0 cr)
- ENGL 2535 - The Bible in Literature, Art and History [HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 2571 - Contemporary Literature [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
- ENGL 2601 - Reading Film [HUMANITIES] (4.0 cr)
- ENGL 2800 - Nature Writing [HUMANITIES] (4.0 cr)
- ENGL 1xxx-2xxx

Core (4 cr)

ENGL 2906 - Methods of Literary Study (4.0 cr)

Electives (12 cr)

This course list excludes ENGL 4901, 4902, 4909, 4922, 4931.

Take 3 or more course(s) from the following:

- ENGL 3115 - Writing Fiction (4.0 cr)
- ENGL 3121 - Writing Poetry (4.0 cr)
- ENGL 3223 - Shakespeare [LE CAT, HUMANITIES] (4.0 cr)
- ENGL 3333 - Children's Literature: Texts and Contexts (4.0 cr)
- ENGL 3411 - The Modern Short Story (4.0 cr)
- ENGL 3501 - British Literature I [HUMANITIES] (4.0 cr)
- ENGL 3502 - British Literature II [HUMANITIES] (4.0 cr)
- ENGL 3563 - American Literature I [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3564 - American Literature II [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3573 - Survey of African American Literature [HUMANITIES, CDIVERSITY] (4.0 cr)
- ENGL 3574 - Reconstituting the Past in African Diaspora Literature (4.0 cr)
- ENGL 3605 - The Irish Landscape in Science and Literature - Study Abroad [GLOBAL PER] (4.0 cr)
- ENGL 4116 - Advanced Writing of Fiction (4.0 cr)
- ENGL 4122 - Advanced Writing of Poetry (4.0 cr)
- ENGL 4222 - Shakespeare (4.0 cr)
- ENGL 4270 - Digital Literature, Video Games and Online Culture (4.0 cr)
- ENGL 4292 - Literature into Film (4.0 cr)
- ENGL 4295 - Special Topics in Early Period Literature (Various Titles to be Assigned) (4.0 cr)
- ENGL 4300 - Shakespeare in England - Study Abroad [GLOBAL PER] (4.0 cr)
- ENGL 4312 - Chaucer (4.0 cr)
- ENGL 4374 - Modern Poetry (4.0 cr)

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- ENGL 4375 - Drama (4.0 cr)
- ENGL 4395 - Special Topics in Late-Period Literature (various titles to be assigned) (4.0 cr)
- ENGL 4444 - Childhood in Literature, History and Culture (4.0 cr)
- ENGL 4495 - Special Topics in Genre and Media Studies (various titles to be assigned) (4.0 cr)
- ENGL 4533 - Studies in English Literature Before 1800 (4.0 cr)
- ENGL 4541 - Restoration and 18th-Century Literature (4.0 cr)
- ENGL 4562 - Studies in 19th-Century British Literature (4.0 cr)
- ENGL 4564 - Studies in British Literature after 1900 (4.0 cr)
- ENGL 4572 - American Renaissance (4.0 cr)
- ENGL 4574 - Studies in American Literature to 1914 (4.0 cr)
- ENGL 4575 - Studies in American Literature after 1914 (4.0 cr)
- ENGL 4577 - Major American Authors (4.0 cr)
- ENGL 4580 - The Novel (4.0 cr)
- ENGL 4584 - Mapping Postcolonial Literature (4.0 cr)
- ENGL 4661 - Publishing the Middle Ages (4.0 cr)
- ENGL 4662 - The Making of a Major Author: The Scholarly Edition in 17th- and 18th-Century England (4.0 cr)
- ENGL 4663 - Readers and the History of Books (4.0 cr)
- ENGL 4665 - The American Literary Marketplace (4.0 cr)
- ENGL 4802 - English Language for Educators (4.0 cr)
- ENGL 4821 - History of the English Language (4.0 cr)
- ENGL 3xxx-4xxx
- **Optional Experience**

  Take 0 - 4 credit(s) from the following:
  - ENGL 4097 - Internship for English Majors (1.0 - 4.0 cr)
  - ENGL 4591 - Independent Study (1.0 - 4.0 cr)
  - ENGL 4595 - Special Topics: (Various Titles to be Assigned) (4.0 cr)

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Duluth Campus

Environment, Sustainability & Geography B.A.

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 45 to 49
- Degree: Bachelor of Arts

The purpose of this degree is to prepare students to create sustainable communities for present and future generations. This program provides students with the tools to understand the physical and social systems of the earth and to become informed change makers locally and globally. Sustainability challenges are all around us: from climate change, to vulnerabilities in the industrial food system, to the way we design cities. One of the fundamental hurdles in a transition toward sustainability is bridging the ecological and social sciences with decision-making. The program trains students to analyze the interwoven nature of social and ecological systems, and translate that knowledge into policies to enact change. Meaningful engagement with the world outside the classroom prepares students to comprehend and address these challenges. To this end, the program provides students with theoretical and hands-on instruction in ecological and social processes, mentoring, as well as opportunities for professional and real-world experiences through internships and applied research.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. A sub-plan is required. For most students, the General sub-plan provides a broad background in the fields of environment, sustainability, and geography. Students interested in pursuing a career in urban planning or municipal government may consider the Urban and Regional Studies sub-plan.
3. Global experience is a UMD goal for all students, international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

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The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (13 cr)
ES 2005 - Environment and Sustainability [SUSTAIN] (3.0 cr)
GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)
GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Internship (4 cr)
ES 4090 - Internship Preparation & Career Development (1.0 cr)
ES 4097 - Internship (3.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

General
Required credits to graduate with this degree: 120
Required credits within the major: 45 - 47

This track emphasizes the breadth of inquiry related to environment, sustainability, and geography through related courses in human geography, physical geography and earth sciences, and human-environment interactions. This sub-plan also provides flexibility for students to apply and explore their topical interests within these areas. This experience culminates with a capstone experience that integrates these perspectives.

Electives (24-26 cr)
1) At least 1 course (3-4 credits) must be taken from each of the following groups: Group A, B, C, and D.
2) No more than 1 course (4 credits) may be taken from Group E and no more than 3 courses (3 credits) from Group F.
Take 6 - 10 course(s) totaling 24 or more credit(s) from the following:

Group A Human Geography
Take 1 - 4 course(s) from the following:
- GEOG 2313 - Economic Geography [LE CAT6, SOC SCI] (3.0 cr)
- GEOG 3334 - Urban Geography (3.0 cr)
- GEOG 3335 - Urban Planning (3.0 cr)
- GEOG 3370 - Geographies of Development (3.0 cr)
- GEOG 3395 - Special Topics: Human Geography (various titles assigned) (3.0 cr)
- GEOG 3800 - Community Empowerment in South Asia - Study Abroad [GLOBAL PER] (4.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)

Group B Physical Geography and Earth Sciences
The EES courses have course prerequisites and students should plan accordingly.
Take 1 - 4 course(s) from the following:
- GEOG 3401 - Weather and Climate (3.0 cr)
- GEOG 3495 - Special Topics: Physical Geography (various titles assigned) (3.0 - 4.0 cr)
- GEOG 4401 - Climate Science (3.0 cr)
- GEOG 4446 - Water Processes and Management (3.0 cr)
- GEOG 4451 - The Geography of Soils (4.0 cr)
- EES 3203 - Environmental Hydrology (3.0 cr)
- EES 3301 - Meteorology and Climatology for the Earth Sciences (3.0 cr)
- EES 4280 - Principles of Soil Science (3.0 cr)

Group C Human Environment Interactions
Take 1 - 4 course(s) from the following:
- ES 2100 - Western Lake Superior Sustainable Food Systems (4.0 cr)
- ES 2803 - Issues in Global Ecology [LE CAT] (3.0 cr)
- ES 3100 - Sustainable Food Systems (4.0 cr)

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- ES 3200 - Environmental and Ecological Justice (3.0 cr)
- ES 3300 - Anthropocene Stories: Geology, Human Histories and Possible Futures (3.0 cr)
- ES 3500 - Ecological Economics (3.0 cr)
- ES 3595 - Special Topics: Environment and Sustainability (various titles assigned) (3.0 cr)
- ES 4005 - Environmental Policy (3.0 cr)
- GEOG 3411 - Human Environment Interactions (3.0 cr)
- GEOG 3422 - Natural Hazards (3.0 cr)
- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GEOG 3481 - The Ecology of Cities (3.0 cr)
- GEOG 3712 - Geography of Latin America (3.0 cr)
- GEOG 5101 - Water Policy (3.0 cr)

•Group D Capstone

Take 1 - 4 course(s) from the following:

- ES 4010 - Seminar (4.0 cr)
- ES 4200 - Sustainable & Resilient Communities (3.0 cr)
- ES 4612 - Field Techniques and Research Design (3.0 cr)
- EES 4102 - Environmental Assessment (3.0 cr)
- GEOG 3995 - Special Topics: (various titles to be assigned) (3.0 cr)
- GEOG 4803 - Geographic Thought (3.0 cr)
- GEOG 4806 - Beaver, Moose, Wolf: Environmental Management in Northeastern Minnesota through three Animals (3.0 cr)
- GIS 4612 - GIS Data Capture & Management (4.0 cr)
- URS 4001 - Cities and Citizenship (3.0 cr)

•Group E Geographic Information Sciences (GIS)

Take 0 - 1 course(s) from the following:

- GIS 3563 - Geographic Information Science I: Theory and Analysis (4.0 cr)
- GIS 3564 - Geographic Information Science II: Applied GIS (4.0 cr)
- GIS 3580 - Earth Imagery (4.0 cr)

•Group F Individualized Experiences

Take 0 - 3 course(s) totaling 0 - 3 credit(s) from the following:

- ES 4091 - Independent Study (1.0 - 3.0 cr)
- ES 4910 - Teaching Assistantship (1.0 - 3.0 cr)
- ES 4999 - Honors Project (1.0 - 3.0 cr)
- GEOG 3991 - Independent Study (1.0 - 3.0 cr)
- GEOG 4910 - Teaching Assistantship (1.0 - 3.0 cr)
- GEOG 4999 - Honors Project (3.0 cr)
- URS 3991 - Independent Study (1.0 - 3.0 cr)
- URS 4910 - Teaching Assistantship (1.0 - 3.0 cr)
- URS 4999 - Honors Project (1.0 - 3.0 cr)

Urban and Regional Studies

Required credits to graduate with this degree: 120
Required credits within the major: 45 - 49

This track emphasizes the social and cultural dimensions of urbanization, addressing how our increasingly urban world can organize in just and cohesive societies. Students who find this sub-plan useful are interested in a career in urban planning or municipal government.

Core (12 cr)

GEOG 3334 - Urban Geography (3.0 cr)
GEOG 3335 - Urban Planning (3.0 cr)
ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
or GEOG 3481 - The Ecology of Cities (3.0 cr)
ES 4200 - Sustainable & Resilient Communities (3.0 cr)
or URS 4001 - Cities and Citizenship (3.0 cr)

Electives (12-16 cr)

1) Take 4 courses (12-16 credits) across Groups A-C. At least 2 courses (minimum 6 credits) must come from Group A.
2) No more than 1 course (4 credits) from Group B and no more than 3 courses (3 credits) from Group C.

Group A

Take 2 - 4 course(s) from the following:

- ES 2100 - Western Lake Superior Sustainable Food Systems (4.0 cr)
- ES 3100 - Sustainable Food Systems (4.0 cr)
- ES 3200 - Environmental and Ecological Justice (3.0 cr)
- ES 3300 - Anthropocene Stories: Geology, Human Histories and Possible Futures (3.0 cr)
- ES 3500 - Ecological Economics (3.0 cr)
- ES 3595 - Special Topics: Environment and Sustainability (various titles assigned) (3.0 cr)
- ES 4005 - Environmental Policy (3.0 cr)

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- ES 4010 - Seminar (4.0 cr)
- ES 4612 - Field Techniques and Research Design (3.0 cr)
- EES 4102 - Environmental Assessment (3.0 cr)
- GEOG 2313 - Economic Geography [LE CAT6, SOC SCI] (3.0 cr)
- GEOG 3370 - Geographies of Development (3.0 cr)
- GEOG 3395 - Special Topics: Human Geography (various titles assigned) (3.0 cr)
- GEOG 3401 - Weather and Climate (3.0 cr)
- GEOG 3411 - Human Environment Interactions (3.0 cr)
- GEOG 3422 - Natural Hazards (3.0 cr)
- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GEOG 3495 - Special Topics: Physical Geography (various titles assigned) (3.0 - 4.0 cr)
- GEOG 3800 - Community Empowerment in South Asia - Study Abroad [GLOBAL PER] (4.0 cr)
- GEOG 3995 - Special Topics: (various titles to be assigned) (3.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)
- GEOG 4401 - Climate Science (3.0 cr)
- GEOG 4446 - Water Processes and Management (3.0 cr)
- GEOG 4451 - The Geography of Soils (4.0 cr)
- GEOG 4803 - Geographic Thought (3.0 cr)
- GEOG 4806 - Beaver, Moose, Wolf: Environmental Management in Northeastern Minnesota through three Animals (3.0 cr)
- GEOG 5101 - Water Policy (3.0 cr)
- GIS 4612 - GIS Data Capture & Management (4.0 cr)
- ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
  or GEOG 3481 - The Ecology of Cities (3.0 cr)
- ES 4200 - Sustainable & Resilient Communities (3.0 cr)
  or URS 4001 - Cities and Citizenship (3.0 cr)
- **Group B Geographic Information Sciences (GIS)**
  Take 0 - 1 course(s) from the following:
  - GIS 3563 - Geographic Information Science I: Theory and Analysis (4.0 cr)
  - GIS 3564 - Geographic Information Science II: Applied GIS (4.0 cr)
  - GIS 3580 - Earth Imagery (4.0 cr)
- **Group C Individualized Experiences**
  Take 0 - 3 course(s) totaling 0 - 3 credit(s) from the following:
  - ES 4091 - Independent Study (1.0 - 3.0 cr)
  - ES 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - ES 4999 - Honors Project (1.0 - 3.0 cr)
  - GEOG 3991 - Independent Study (1.0 - 3.0 cr)
  - GEOG 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - GEOG 4999 - Honors Project (3.0 cr)
  - URS 3991 - Independent Study (1.0 - 3.0 cr)
  - URS 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - URS 4999 - Honors Project (1.0 - 3.0 cr)

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Duluth Campus

Environment, Sustainability & Geography Minor

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22 to 25

The purpose of the program is to prepare students to create sustainable communities for present and future generations. This program provides students with the tools to understand the physical and social systems of the earth to become informed change makers locally and globally. Sustainability challenges are all around us: from climate change, to vulnerabilities in the industrial food system, to the way we design cities. One of the fundamental hurdles in a transition toward sustainability is bridging the ecological and social sciences with decision making. The program trains students to analyze the interwoven nature of social and ecological systems, and translate that knowledge into policies to enact change. Meaningful engagement with the world outside the classroom prepares students to comprehend and address these challenges. This program provides students with mentoring and theoretical and hands-on instruction in ecological and social processes.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (13 cr)

ES 2005 - Environment and Sustainability [SUSTAIN] (3.0 cr)
GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)
GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Electives (9-12 cr)

To fulfill this requirement students take at least 3 courses. Select at least 3 courses across the listed Course Lists. One course may be at the 2xxx level.

Course List (2xxx level)

Take 0 - 1 course(s) from the following:

- ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
- ES 2100 - Western Lake Superior Sustainable Food Systems (4.0 cr)
- ES 2803 - Issues in Global Ecology [LE CAT] (3.0 cr)
- GEOG 2313 - Economic Geography [LE CAT6, SOC SCI] (3.0 cr)
- **Course List (3xxx-4xxx level)**

Take 2 - 3 course(s) from the following:

- ES 3100 - Sustainable Food Systems (4.0 cr)
- ES 3200 - Environmental and Ecological Justice (3.0 cr)
- ES 3300 - Anthropocene Stories: Geology, Human Histories and Possible Futures (3.0 cr)
- ES 3500 - Ecological Economics (3.0 cr)
- ES 3595 - Special Topics: Environment and Sustainability (various titles assigned) (3.0 cr)
- ES 4005 - Environmental Policy (3.0 cr)
- ES 4200 - Sustainable & Resilient Communities (3.0 cr)
- ES 4612 - Field Techniques and Research Design (3.0 cr)
- EES 3605 - The Irish Landscape in Science and Literature - Study Abroad [GLOBAL PER] (4.0 cr)
- GEOG 3334 - Urban Geography (3.0 cr)
- GEOG 3335 - Urban Planning (3.0 cr)
- GEOG 3370 - Geographies of Development (3.0 cr)
- GEOG 3395 - Special Topics: Human Geography (various titles assigned) (3.0 cr)
- GEOG 3401 - Weather and Climate (3.0 cr)
- GEOG 3411 - Human Environment Interactions (3.0 cr)
- GEOG 3422 - Natural Hazards (3.0 cr)
- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GEOG 3481 - The Ecology of Cities (3.0 cr)
- GEOG 3495 - Special Topics: Physical Geography (various titles assigned) (3.0 - 4.0 cr)

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- GEOG 3712 - Geography of Latin America (3.0 cr)
- GEOG 3800 - Community Empowerment in South Asia - Study Abroad [GLOBAL PER] (4.0 cr)
- GEOG 3995 - Special Topics: (various titles to be assigned) (3.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)
- GEOG 4401 - Climate Science (3.0 cr)
- GEOG 4446 - Water Processes and Management (3.0 cr)
- GEOG 4451 - The Geography of Soils (4.0 cr)
- GEOG 4803 - Geographic Thought (3.0 cr)
- GEOG 4806 - Beaver, Moose, Wolf: Environmental Management in Northeastern Minnesota through three Animals (3.0 cr)
- URS 4001 - Cities and Citizenship (3.0 cr)
- **Optional Experience**

  Take 0 - 3 course(s) totaling 0 - 3 credit(s) from the following:
  - ES 4091 - Independent Study (1.0 - 3.0 cr)
  - ES 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - ES 4999 - Honors Project (1.0 - 3.0 cr)
  - GEOG 3991 - Independent Study (1.0 - 3.0 cr)
  - GEOG 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - GEOG 4999 - Honors Project (3.0 cr)
  - URS 3991 - Independent Study (1.0 - 3.0 cr)
  - URS 4910 - Teaching Assistantship (1.0 - 3.0 cr)
  - URS 4999 - Honors Project (1.0 - 3.0 cr)

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Duluth Campus

Film Studies Minor

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 21 to 22

The film studies minor provides an interdisciplinary approach to film, exploring the medium through practical, historical, and social contexts. Required courses in the minor give students an understanding of the art of filmmaking, a history of film, and how film connects to society. Electives in the minor offer students the opportunity to focus on more specific aspects of film ranging from film genres to photography to screenwriting.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

1. One 3xxx level or higher course for at least 3 credits must be taken.

Core (12 cr)

TH 1051 - Introduction to Film [LE CAT, FINE ARTS] (3.0 cr)
TH 1053 - Film and Society [LE CAT] (3.0 cr)
TH 2851 - Film History (3.0 cr)
TH 3851 - Screenwriting (3.0 cr)

Electives (9-10 cr)

Students must take one course from each category below. The third course may come from either category. One 3xxx level or higher course for at least 3 credits must be taken.

Practical/Experiential

Take 1 - 2 course(s) totaling 3 - 6 credit(s) from the following:

- ART 1605 - Fundamentals of Photography [LE CAT, FINE ARTS] (3.0 cr)
- ART 2030 - Digital Arts: Time-based Media (3.0 cr)
- ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
- ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
- ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)

Historical/Theoretical

Take 1 - 2 course(s) totaling 3 - 8 credit(s) from the following:

- AMIN 4640 - American Indians in the Movies [HUMANITIES, CDIVERSITY] (3.0 cr)
- ENGL 1818 - Science Fiction in Film and Literature [HUMANITIES] (4.0 cr)
- ENGL 2601 - Reading Film [HUMANITIES] (4.0 cr)
- ENGL 4292 - Literature into Film (4.0 cr)
- FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- HIST 3320 - American Popular Culture, 1929 to the Present (4.0 cr)
- HIST 4727 - Middle Eastern History Through Film (4.0 cr)
- MU 1004 - Music in Film [FINE ARTS] (3.0 cr)
- POL 3025 - Popular Culture and Politics [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
- WS 3400 - Women and Film [GLOBAL PER] (3.0 cr)

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Duluth Campus

French Studies B.A.

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 43
- Degree: Bachelor of Arts

This program prepares students to thrive as globally competent citizens through an in-depth encounter with French and Francophone cultures and literature. Majors develop language proficiency and communication skills as they study literature, films, and cultures of the French-speaking world. Such studies have long been a core discipline in the liberal arts due to the rich intellectual, political, artistic, technological, and scientific achievements of a culture whose language is spoken in many parts of the world. In view of northeastern Minnesota's extensive French heritage and proximity to bilingual Canada, the field of French studies offers local as well as global perspectives that can be applied in a wide variety of career choices.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
Note: Students pursuing both the French Studies B.A. and the Teaching French B.A.A. degrees must satisfactorily complete 12 non-overlapping upper division credits of French electives over and above the requirements for the B.A.A. to receive both degrees.
2. Global experience is a UMD goal for all students, and international study is encouraged. In-depth study of language and culture in a host country vastly improves language proficiency and intercultural competence. Talk with a faculty advisor in French Studies to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

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UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3100 is recommended. Any WRIT 31xx course is applicable to the major.
WRIT 31xx - Adv Writing (3 cr)

Language Core (16 cr)
Students with language study may be exempt from some language courses and should consult the department about placement.
FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

Electives (23 cr)
To enroll in these courses a student must have earned a grade of C or better in FR 1202, or have instructor's permission. With advisor consent, some upper-division French courses may be transferred and/or taken abroad. At least two FR courses (8 credits) must be taken through UMD or with advisor approval from a UMD affiliated study abroad program.
Take 5 - 6 course(s) from the following:
- FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
- FR 3302 - Advanced French Composition and Conversation [COMM & LAN] (4.0 cr)
- FR 3305 - French Cuisine: Exploring French Culture Through Food [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 3310 - Survey: Essays, Short Stories, Poetry in the French Language (4.0 cr)
- FR 3320 - Storytelling in the Francophone World (4.0 cr)
- FR 3550 - The History of Paris: Evolution and Revolution [HUMANITIES] (4.0 cr)
- FR 3591 - Independent Study (1.0 - 4.0 cr)
- FR 4018 - Studies in Francophone Cultures and Literature [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4095 - Special Topics (Various Titles to be Assigned) (4.0 cr)
- FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4492 - Modern French Literature (19th-21st century) [HUMANITIES] (4.0 cr)
- FR 3xxx-4xxx
- **Optional Elective (taught in English)**

  One of the following courses may apply to the overall elective credits. With prior approval from an advisor, selected courses may be taken in another subject if related to the major.
  Take 0 - 1 course(s) from the following:
  - ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
  - ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
  - ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
  - ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
  - ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
  - CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
  - CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
  - HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
  - HIST 3615 - Modern Africa (4.0 cr)
  - POL 3517 - Western European Political Systems (4.0 cr)

Oral Proficiency Exam
This major requires an examination of language proficiency. Contact the department or your advisor for more information.
* Oral Proficiency Exam

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Duluth Campus

French Studies Minor

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 28
- Study abroad will be strongly encouraged, to be determined by student interest and focus, throughout the French-speaking world.

This minor complements any degree. French has been the language of a major world culture for centuries and is the traditional language of the arts and philosophy. As global commerce and communication become the norm, French shares status with English as one of the two official languages of the European community and provides a solid basis for careers in business, law, human services, medicine, and diplomacy.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Language Core (16 cr)

Students with previous language study may be exempt from some language courses and should consult the department about placement.

FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

Electives (12 cr)

To enroll in these courses, a student must have earned a grade of C or better in FR 1202, be concurrently enrolled, or have instructor consent. With advisor's consent, courses taken abroad may count toward the minor.

Take 2 - 3 course(s) from the following:

- FR 3302 - Advanced French Composition and Conversation [COMM & LAN] (4.0 cr)
- FR 3305 - French Cuisine: Exploring French Culture Through Food [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 3310 - Survey: Essays, Short Stories, Poetry in the French Language (4.0 cr)
- FR 3320 - Storytelling in the Francophone World (4.0 cr)
- FR 3591 - Independent Study (1.0 - 4.0 cr)
- FR 4018 - Studies in Francophone Cultures and Literature [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4095 - Special Topics (Various Titles to be Assigned) (4.0 cr)
- FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4492 - Modern French Literature (19th-21st century) [HUMANITIES] (4.0 cr)
- FR 3xxx-4xxx
- **Optional FR Electives (taught in English):**

  Take 0 - 1 course(s) from the following:

  - FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
  - FR 3550 - The History of Paris: Evolution and Revolution [HUMANITIES] (4.0 cr)

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Information current as of January 17, 2023

Duluth Campus

Geographic Information Science B.S.

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 55 to 60
- Degree: Bachelor of Science

Because of the growing awareness across disciplines of the strategic value of Geographic Information Science (GIS), particularly through its ability to understand better the complexity of economic, environmental, and social systems, the US Department of Labor identifies GIS as one of nine high growth industries. For example, GIS has been instrumental to emergency managers in the face of natural hazards, who utilize it to determine how communities can best mitigate such disasters. Urban planners utilize GIS to optimize existing systems and services, while forecasting where they will be most needed in the future based on emerging population and growth trends. Remote sensing allows land managers to monitor environmental changes via satellite and drone technologies, and inform adaptation strategies for industry and communities alike. Spatial analysis provides epidemiologists with the tools necessary to track and forecast the spread of diseases, helping health care officials limit their impact. In each of these cases, GIS professionals use geospatial technologies to create sustainable solutions to environmental, economic, and societal problems.

The mission of the GIS BS program at UMD is to train future GIS professional by providing theoretical and practical instruction, modeling and mentoring, and real-world professional experiences, guided by the GIS&T body of knowledge and the GISP code of ethics.

Students learn both the basic and the latest methods to collect, manage, analyze and visualize data, including scripting methods for web-delivery of geographical information and automation of geo-processes. And they learn how to put these methods into action through application classes, community-based research projects and internships.

The GIS program is assessed annually by students, faculty and GIS professionals conjointly, to ensure it remains relevant and keeps in touch with the fast-paced evolution of the field.

The major interweaves well with disciplines such as environment, sustainability and geography, computer science, statistics, mathematics, history, political science, anthropology, sociology, criminology, geology, biology, chemistry and engineering. Because of the interdisciplinary nature of GIS applications, students are encouraged to double major.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade

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point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (either a minor, another major or dual degree).
2. Global experience is a UMD goal for all students, international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Advanced Writing Requirement (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Geography (7 cr)
GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Mathematics and Statistics (3-5 cr)
Take 1 or more course(s) from the following:
•MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
•MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
•MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
•STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)

Programming (3-5 cr)
Take 1 or more course(s) from the following:
•CS 1121 - Introduction to Programming in Visual BASIC.NET [LE CAT, LOGIC & QR] (3.0 cr)
•CS 1411 - Introduction to Programming in Matlab (4.0 cr)
•CS 1511 - Computer Science I [LE CAT] (5.0 cr)
•CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)

GIS Core (27 cr)
GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)
GIS 3563 - Geographic Information Science I: Theory and Analysis (4.0 cr)
GIS 3564 - Geographic Information Science II: Applied GIS (4.0 cr)
GIS 3580 - Earth Imagery (4.0 cr)
GIS 4612 - GIS Data Capture & Management (4.0 cr)
GIS 4533 - Distributed Geographic Information Services: Mobile and Web Based Solutions (4.0 cr)
or GIS 4586 - Geoprocessing with Python (4.0 cr)
GIS 4585 - Advanced GIS Analytics (4.0 cr)
or GIS 5581 - Digital Image Processing and Analysis (4.0 cr)

Professional Preparedness (4-5 cr)
GIS 3597 - Internship in GIS (3.0 - 4.0 cr)
GIS 4909 - Professional Preparedness (1.0 cr)

GIS Electives (8 cr)
Additional courses taken from within the program will apply to this requirement. This course list excludes: GIS 5533, 5585, 5586.
Take 1 - 2 course(s) from the following:
•GIS 5571 - Geographic Information Science in Urban Analysis (4.0 cr)
•GIS 5572 - Environmental Application of GIS (4.0 cr)
•GIS 5573 - GIScience in Regional Sustainability Applications (4.0 cr)
•GIS 2xxx - 5xxx
•**Optional Experience**
Take 0 - 4 credit(s) from the following:
•GIS 3591 - Independent Study in GIS (1.0 - 3.0 cr)
•GIS 4910 - Teaching Assistantship (1.0 - 2.0 cr)
•GIS 4999 - Honors Project in Geographic Information Science (1.0 - 4.0 cr)

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Duluth Campus

Geographic Information Science Certificate

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 19
- Degree: Geographic Information Science Certificate

The certificate in Geographic Information Science has as its core the study and use of geographic information systems (GIS). Central to this program are the theoretical and applied fundamentals of the collection, management, analysis and representation of spatial data. The program builds on this core by exploring both traditional and novel methods for geo-visualization. Methods include teaching about various GIS and remote sensing technologies used to collect and analyze spatial data and how to use these technologies, critically discussing the implications of geo-spatial technologies on individuals and society, demonstrating how geo-spatial technologies are used effectively in urban and regional planning processes; and by exploration of applications of GIS to environmental, resource and policy/management issues.

The five-course series offers students the opportunity to expand their knowledge and expertise in the area of Geographic Information Science (GISci). Participants in the certificate will receive the theoretical and technical education needed to acquire, manage and critically analyze and represent geo-referenced data. The program offers basic and advanced courses in map design and geo-visualization, geographic information systems, remote sensing and geo-spatial technologies in general.

This certificate is not eligible for financial aid.

Students pursuing the GISci major or minor are not eligible for the GISci certificate program.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A full understanding of basic computer use is expected.
A cumulative U of MN GPA of at least 2.00 is required for admission.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

Core (11 cr)

Take 3 or more course(s) from the following:

- GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)
- GIS 3563 - Geographic Information Science I: Theory and Analysis (4.0 cr)
- GIS 3564 - Geographic Information Science II: Applied GIS (4.0 cr)

Electives (8 cr)

Take 2 or more course(s) from the following:

- GIS 3580 - Earth Imagery (4.0 cr)
- GIS 4533 - Distributed Geographic Information Services: Mobile and Web Based Solutions (4.0 cr)
- GIS 4585 - Advanced GIS Analytics (4.0 cr)
- GIS 5571 - Geographic Information Science in Urban Analysis (4.0 cr)
- GIS 5572 - Environmental Application of GIS (4.0 cr)
- GIS 5573 - GIScience in Regional Sustainability Applications (4.0 cr)
- GIS 5581 - Digital Image Processing and Analysis (4.0 cr)

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Duluth Campus

Geographic Information Science Minor

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22 to 23

The minor in Geographic Information Science (GIS) has at its core the study and use of geographic information systems. Central to this program are the theoretical and applied fundamentals of the collection, management, analysis, and representation of spatial data. The program builds on this core by exploring both traditional and novel methods for geo-visualization. Methods include teaching about various remote sensing technologies used to collect and classify remotely sensed data and how to use these technologies, critically discussing the implications of geo-spatial technologies on individuals and society, demonstrating how geo-spatial technologies are used effectively in urban and regional planning processes, and by exploring applications of GIS to environmental, resource and policy/management issues. The minor interweaves well with majors in anthropology, biology, chemistry, computer science, criminology, engineering, environmental sciences, geology, history, mathematics, political science, sociology, and statistics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Geography Foundations (6-7 cr)

GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)

Take 1 or more course(s) from the following:

- GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
- GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
- EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Information Science (8 cr)

Take 2 or more course(s) from the following:

- GIS 3563 - Geographic Information Science I: Theory and Analysis (4.0 cr)

GIS 3564 - Geographic Information Science II: Applied GIS (4.0 cr)

Electives (8 cr)

Take 1 - 2 course(s) from the following:

- GIS 3580 - Earth Imagery (4.0 cr)
- GIS 4533 - Distributed Geographic Information Services: Mobile and Web Based Solutions (4.0 cr)
- GIS 4585 - Advanced GIS Analytics (4.0 cr)
- GIS 4586 - Geoprocessing with Python (4.0 cr)
- GIS 4612 - GIS Data Capture & Management (4.0 cr)
- GIS 5571 - Geographic Information Science in Urban Analysis (4.0 cr)
- GIS 5572 - Environmental Application of GIS (4.0 cr)
- GIS 5573 - GIScience in Regional Sustainability Applications (4.0 cr)
- GIS 5581 - Digital Image Processing and Analysis (4.0 cr)
- GIS 2xxx-5xxx
- **Optional Experience**

Take 0 - 4 credit(s) from the following:

- GIS 3591 - Independent Study in GIS (1.0 - 3.0 cr)
- GIS 3597 - Internship in GIS (3.0 - 4.0 cr)
- GIS 4910 - Teaching Assistantship (1.0 - 2.0 cr)
- GIS 4999 - Honors Project in Geographic Information Science (1.0 - 4.0 cr)

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Duluth Campus

German Studies B.A.

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 43
- Degree: Bachelor of Arts

This major introduces and explores the culture of German-speaking countries, with an emphasis on both cultural history and contemporary issues. The political and social backgrounds of these cultures are seen through literature, the arts, history, and media. As global commerce and communication become the norm, German Studies provides a solid basis for careers from business to law, human services to diplomacy, STEM fields to the arts. Taught in German, this program also offers a solid foundation in the language and the development of intercultural competencies. German majors are encouraged to declare a second major in a complementary field.

Honors requirements: Departmental honors will be granted to students according to the following process: Students who achieve a 3.30 GPA in upper division language courses at UMD will be invited by program faculty to submit a portfolio of excellent work done in the language for consideration by faculty in the program. The faculty then will decide if honors are to be awarded based on that portfolio.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
Note: Students pursuing both the German Studies B.A. and the Teaching German B.A.A. must satisfactorily complete 12 non-overlapping upper division credits of German electives over and above the requirements for the B.A.A. to receive both degrees.
2. Global experience is a UMD goal for all students, and international study is encouraged. In-depth study of language and culture in a host country vastly improves language proficiency and intercultural competence. Talk with a faculty advisor in German Studies to explore academic options for fulfilling your degree requirements through study abroad.

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Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Language Core (16 cr)

Students with language study may be exempt from some language courses and should consult the department about placement.

GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)

Electives (23 cr)

To enroll in these courses a student must have earned a grade of C or better in GER 1202, or have instructor's permission. With advisor consent, some upper-division German courses may be transferred and/or taken abroad. At least three GER courses (12 credits) must be taken through UMD or with advisor approval from a UMD affiliated study abroad program.

Take 5 - 6 course(s) from the following:

- GER 3040 - German Culture in Germany - Study Abroad [GLOBAL PER] (4.0 cr)
- GER 3302 - Advanced Composition and Conversation [COMM & LAN] (4.0 cr)
- GER 3401 - Texts and Contexts in German Speaking World [HUMANITIES] (4.0 cr)
- GER 3403 - Page and Stage: German Theater and Performance [FINE ARTS] (4.0 cr)
- GER 3407 - Sustainability in German-speaking Cultures [SUSTAIN] (4.0 cr)
- GER 3601 - German Studies I: Knights to Nationalisms [HUMANITIES] (4.0 cr)
- GER 3602 - German Studies II: From the Rise of the Reich to the Fall of the Wall [HUMANITIES] (4.0 cr)
- GER 4095 - Special Topics: (various titles to be assigned) (4.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
- GER 4406 - Through Other Lenses: Germanophone Literature & Film (4.0 cr)
- GER 4502 - German Modernisms: From Vienna to Berlin [HUMANITIES] (4.0 cr)
- GER 3xxx-4xxx
- **Optional Experience (instructor consent required)**

  Take 0 - 8 credit(s) from the following:

  - GER 3591 - Independent Study (1.0 - 4.0 cr)
  - GER 4591 - Independent Study (1.0 - 4.0 cr)
- **Optional Elective (taught in English)**

  One of the following courses may apply to the overall elective credits. With prior approval from an advisor, selected courses may be taken in another subject if related to the major.

  Take 0 - 1 course(s) from the following:

  - ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
  - ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
  - CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
  - CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
  - CUE 4002 - Managing Cultural Organizations (3.0 cr)
  - GER 2040 - Berlin: Myth, Legend and Reality [LE CAT, HUMANITIES] (3.0 cr)
  - HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
  - HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
  - LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
  - POL 3517 - Western European Political Systems (4.0 cr)

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Duluth Campus

German Studies Minor

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 28

This minor complements any degree. German has been the language of a major world culture for centuries and is the traditional language of science, medicine, philosophy, and the arts. As global commerce and communication become the norm, German Studies provides a solid basis for careers in business, law, human services, and diplomacy. Taught in German, this program offers a solid foundation in the language.

Study abroad is strongly encouraged. In-depth study of language and culture in a host country vastly improves language proficiency and intercultural competence.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Language Core (16 cr)

Students with language study may be exempt from some language courses and should consult the department about placement.

GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)

Upper Division Electives (12 cr)

To enroll in these courses a student must have earned a grade of C or better in GER 1202, or have instructor's permission. With advisor's consent, courses taken abroad may count toward the minor.

Take 2 - 3 course(s) from the following:

- GER 3040 - German Culture in Germany - Study Abroad [GLOBAL PER] (4.0 cr)
- GER 3302 - Advanced Composition and Conversation [COMM & LAN] (4.0 cr)
- GER 3401 - Texts and Contexts in German Speaking World [HUMANITIES] (4.0 cr)
- GER 3403 - Page and Stage: German Theater and Performance [FINE ARTS] (4.0 cr)
- GER 3407 - Sustainability in German-speaking Cultures [SUSTAIN] (4.0 cr)
- GER 3601 - German Studies I: Knights to Nationalisms [HUMANITIES] (4.0 cr)
- GER 3602 - German Studies II: From the Rise of the Reich to the Fall of the Wall [HUMANITIES] (4.0 cr)
- GER 4095 - Special Topics: (various titles to be assigned) (4.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
- GER 4406 - Through Other Lenses: Germanophone Literature & Film (4.0 cr)
- GER 4502 - German Modernisms: From Vienna to Berlin [HUMANITIES] (4.0 cr)
- GER 3xxx-4xxx
- **Optional Experience (instructor consent required)**

  Take 0 - 4 credit(s) from the following:

  - GER 3591 - Independent Study (1.0 - 4.0 cr)
  - GER 4591 - Independent Study (1.0 - 4.0 cr)

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Duluth Campus

Graphic Design B.F.A.

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120 to 126
- Required credits within the major: 88 to 113
- Degree: Bachelor of Fine Arts

The graphic design profession uses the creative process and technology to communicate ideas and messages. Delivery of the message can be multidimensional, print or screen based, interactive, involve sound and motion, be physical or virtual. Graphic design involves type and language, abstract and figurative imagery, concept, technology, and craft. The discipline takes place within commercial, academic, and institutional contexts in the private and public realms, and allows individuals to enter a rewarding profession that demands creativity and vision. Acknowledging the interdisciplinary nature of the profession, the Department of Art and Design offers two distinct sub-plans, one that combines graphic design with complementary studio skills and practices, and one that pairs graphic design with coursework in business and marketing.

To qualify for this program, pre-graphic design students must pass a portfolio review during the second semester of their first year. After admission to the graphic design major (passing the portfolio review), the coursework required for the program is sequential and takes a minimum of three years or six semesters (see Sample Plans). Transfer students, and students who change their major to graphic design, need to be aware of this time requirement to complete the program.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

To qualify for this program, pre-graphic design students must pass a portfolio review; the portfolio review is scheduled in both fall and spring semesters. Students must have a minimum 2.00 GPA overall and in art and art history courses. Due to limited space, the Graphic Design-Marketing sub-plan is limited to 30 new majors annually.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Design Core (12 cr)

Group A

ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
ART 1011 - 2-D Design (3.0 cr)
ART 1013 - 2-D Digital Design (3.0 cr)

Group B

ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)

Art History Foundations (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
- ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)
- ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)

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Portfolio Review (0 cr)
At least two Design Core courses from Group A and 1 course from Group B (and a 2.0 GPA overall and in art and art history courses) are required prior to enrolling in Portfolio Review. Remaining Design Core courses can be completed after Portfolio Review.
ART 901 - Graphic Design Portfolio Review (0.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Transfer credits must carry a minimum grade of C.
3. Attendance at two Visual Culture Lecture Series per semester (fall and spring).
4. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Advanced Writing (3 cr)
Take one course depending on the sub-plan.
Marketing
WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)
or WRIT 31xx Adv Writing (3 cr)
or **Studio**
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
or WRIT 4230 - Web Design and Digital Culture (3.0 cr)
or WRIT 4250 - New Media Writing (3.0 cr)

Visual Culture Lecture Series
Attend two visual lecture events each fall and spring semesters.
Visual Lecture (2 events)

Graphic Design Lower Division (2000 Level) Core (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•ART 2905 - Design Technology I (3.0 cr)
•ART 2906 - Design Technology II (3.0 cr)
•ART 2907 - Typography I (3.0 cr)
•ART 2911 - Graphic Design I (3.0 cr)
•ARTH 2901 - History of Graphic Design (3.0 cr)

Graphic Design Upper Division (3000-4000 Level) Core (21 cr)
Take 7 or more course(s) totaling 21 or more credit(s) from the following:
•ART 3906 - Emerging Media Design (3.0 cr)
•ART 3922 - Graphic Design II (3.0 cr)
•ART 3933 - Graphic Design III (3.0 cr)
•ART 3937 - Typography II (3.0 cr)
•ART 4908 - Interactive Design I (3.0 cr)

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Information current as of January 17, 2023

•ART 4909 - Interactive Design II (3.0 cr)
•ART 4922 - Senior Design Studio I (3.0 cr)

Capstone (3 cr)
Portfolio project addresses individual student needs and highlights design strengths for career placement. Instructors assessing the senior project maintain criteria used in the entry-level review rubric. Results are reflected in the grade.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ART 4933 - Senior Design Studio II (3.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

Marketing
Required credits to graduate with this degree: 122 - 126
Required credits within the major: 109 - 113

Graphic Design Foundations (6 cr)
Sustainability Requirement
ART 1004 - Sustainable Visual Culture Practices [SUSTAIN] (3.0 cr)
or ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
Graphic Design
ART 4944 - Graphic Design IV (3.0 cr)
or ART 4955 - Graphic Design V (3.0 cr)
Art History Core (3 cr)
ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
Art History Elective (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 2620 - History of Photography (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
•ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
•ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
•ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
•ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
•ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
Pre-Business Core (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ACCT 2001 - Principles of Financial Accounting (3.0 cr)
•ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
Pre-Business Foundations (3-6 cr)
Take 1 - 2 course(s) totaling 3 - 6 credit(s) from the following:
ECON 1003
•ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or **ECON 1022 and 1023**
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
Marketing Core (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•MKTG 3701 - Principles of Marketing (3.0 cr)
•MKTG 3711 - Marketing Research (3.0 cr)
•MKTG 4731 - Consumer Behavior (3.0 cr)
Marketing Electives (9 cr)
Take 9 or more credit(s) from the following:
•MKTG 3721 - Social Media Marketing (3.0 cr)
•MKTG 3741 - Fundamentals of Selling (3.0 cr)
•MKTG 3751 - Marketing Ethics (3.0 cr)
•MKTG 3771 - Sports Marketing (3.0 cr)
•MKTG 4774 - International Marketing (3.0 cr)
•MKTG 3797 - Marketing Internship (1.0 - 6.0 cr)
•MKTG 4721 - Advertising and Marketing Communications (3.0 cr)

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•MKTG 4741 - Developing and Marketing New Products (3.0 cr)
•MKTG 4751 - Retailing (3.0 cr)
•MKTG 4781 - Marketing Management and Strategy (3.0 cr)
•MKTG 4795 - Special Topics (Various Topics to be Assigned) (3.0 cr)

Supporting Foundations (8-9 cr)

Communication or World Language

Take 1 or more course(s) totaling 3 - 4 credit(s) from the following:
•COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
•COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
•FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
•GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

Take 1 or more course(s) totaling 5 or more credit(s) from the following:
•MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
•MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Supporting Core (4 cr)

PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)

Studio

Required credits to graduate with this degree: 120
Required credits within the major: 88

Studio Core (9 cr)

Studio

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ART 1012 - 3-D Design (3.0 cr)

Graphic Design

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 4944 - Graphic Design IV (3.0 cr)
•ART 4955 - Graphic Design V (3.0 cr)

Studio Lower Division Electives (2000 Level) (9 cr)

Students are advised to review pre-requisites for all studio electives and plan accordingly.
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2018 - Digital Arts: Interactive Media (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
•ART 2100 - Painting I (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
or ART 2301 - Printmaking I: Litho, Screen (3.0 cr)

Studio Upper Division Electives (3000-4000 Level) (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)
•ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)

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•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 3500 - Jewelry and Metals II (3.0 cr)
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 3700 - Drawing II (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4650 - Alternative Processes Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4700 - Drawing III (3.0 cr)

Art History Electives (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
•ARTH 2620 - History of Photography (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
•ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
•ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
•ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
•ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
•ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)

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Duluth Campus

History B.A.

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 35 to 38
- Degree: Bachelor of Arts

The history program provides students with analytical and communication skills that are vital for their future success and for that of our society. It empowers them to put those skills into practice through rigorous coursework and an array of optional internships in public and private sector jobs. History students' understanding of diverse cultures and the drama of human experience equips them to become effective global citizens. History students critically examine past decisions, look for patterns, and make decisions accordingly. These skills are sought after in business, law, public policy, government, education, non-profit organizations, museums, journalism, and the ministry.

The history program offers students two tracks: General History or Public History. The General History track introduces students to major world cultures and provides students with the skills to work critically with a diverse array of source materials in different media. The Public History track prepares students to adapt and apply skills in history to private and public audiences on the local, state, and national levels. Both tracks offer courses in five geographic areas.

Honors requirements: Candidates must have a 3.00 overall GPA and a 3.30 in the major. An honors paper or project must be completed in a 5xxx course. Students who wish to have such work considered for honors must complete a departmental form the first semester of their senior year. Completed projects and papers must be approved by the sponsoring faculty member and one other member of the faculty. Also, students must complete the sequence in the intermediate-level courses of one second or foreign language. Students may be exempt from this requirement if they have previously completed an equivalent language at this level. The department head reviews exemptions. Students should consult the Departments of American Indian Studies (Ojibwe), Education (American Sign Language), or World Languages and Cultures (Chinese, French, German, Spanish, or other) about placement.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Students are strongly encouraged to study abroad and/or study a second language.
3. Students are encouraged, in consultation with the department's internship coordinator, to participate in an internship, a learning experience either on or off campus that introduces them to practical applications or other methodological issues of history as a discipline.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Upper Division Core Requirement (4 cr)

Additional Seminars may be applied to a Geographic Area with department head approval.
HIST 4999 - Seminar (4.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

General History

Required credits to graduate with this degree: 120
Required credits within the major: 35

This track provides students with rigorous coursework on a diverse array of geographical, thematic, and chronological topics, ensuring exposure to introductory level, methodological, and upper level courses. The seminar course represents the culmination of students' progression through these courses and enables them to put the acquired knowledge and skills into practice through the development of a capstone research project.

Students are encouraged, in consultation with the department's internship coordinator, to participate in an internship, a learning experience either on or off campus that introduces them to practical applications or other methodological issues of history as a discipline.

Geographic Areas (30 cr)

Students must take at least one course from each Geographic Area. Courses from the Optional Area may apply towards the credit total.

* At most 12 credits (0-3 courses) at the 1xxx-2xxx level may apply.
* At least 19 credits (5-8 courses) must be at the 3xxx-4xxx level.

Students may elect to satisfy this requirement by taking all courses at the 3xxx-4xxx level.

Africa

Take 1 or more course(s) from the following:

- AAAS 1102 - Introduction to Atlantic Slave Trade [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
- HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
- HIST 3550 - Africa and Her Early American Diaspora (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- HIST 3695 - Special Topics African History (various titles to be assigned) (4.0 cr)

East and Southeast Asia

Take 1 or more course(s) from the following:

- HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 2405 - History of Chinese Culture (4.0 cr)
- HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
- HIST 3463 - History of Modern China (4.0 cr)
- HIST 3465 - Twentieth Century China Politics (4.0 cr)
- HIST 3495 - Special Topics East Asian History (Various Titles to be Assigned) (4.0 cr)

Europe

Take 1 or more course(s) from the following:

- HIST 1200 - World History to 1500: From Antiquity to the Age of Exploration [HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 1207 - Dawn of Modern Europe [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 1208 - Europe in the Modern Age [LE CAT7, HUMANITIES] (4.0 cr)

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•HIST 2345 - Science and Society: 1500 to Present [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 3133 - Ancient Greece from Homer to Alexander (4.0 cr)
•HIST 3141 - Ancient Rome: From Republic to Empire (4.0 cr)
•HIST 3145 - Ireland and the Construction of History (4.0 cr)
•HIST 3195 - Special Topics European History (various titles to be assigned) (4.0 cr)
•HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3264 - Russian Empire under the Tsars: Russia under the Romanovs from Peter the Great to Lenin [GLOBAL PER] (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3575 - Jews & Poles: Entangled Lives, Cultures and Memories in the 20th Century Poland - Study Abroad [GLOBAL PER] (4.0 cr)
•HIST 3580 - Eastern Europe during the Holocaust: A Virtual Experience (4.0 cr)
•HIST 3939 - Europe in the Age of Renaissance and Reformation: 1348-1648 (4.0 cr)
•HIST 3940 - Early Modern England: 1485-1689 (4.0 cr)

The Americas

Take 1 or more course(s) from the following:
•HIST 1304 - US History Part I: 1607-1877 [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 1305 - US History Part II: 1865-Present [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 1310 - Minnesota History (4.0 cr)
•HIST 2315 - Colonial Latin America (4.0 cr)
•HIST 2350 - Hunting and Gathering and the History of American Health [HUMANITIES, SUSTAIN] (4.0 cr)
•HIST 3310 - The American Revolution (4.0 cr)
•HIST 3313 - Global Surf Culture - Study Abroad [GLOBAL PER] (4.0 cr)
•HIST 3315 - Ideas of God in Early America (4.0 cr)
•HIST 3318 - Slavery, Lincoln and the Civil War [CDIVERSITY] (4.0 cr)
•HIST 3320 - American Popular Culture, 1929 to the Present (4.0 cr)
•HIST 3355 - War and American Society, 1500-Present (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3395 - Special Topics The Americas (various titles to be assigned) (4.0 cr)
•HIST 3396 - The Vietnam War (4.0 cr)

West Asia

Take 1 or more course(s) from the following:
•HIST 1027 - Introduction to Islam [LE CAT7, LEIP CAT07, HUMANITIES] (4.0 cr)
•HIST 3035 - Ancient Warfare From Alexander to Mohammad (4.0 cr)
•HIST 3038 - History of Christianity: Origins to 1054 (4.0 cr)
•HIST 3055 - The Bible & Ancient Near East (4.0 cr)
•HIST 3720 - History of Iran (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3730 - Ascetics, Mystics, and Yogis: Travel, Learning, and the Spiritual Quest (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HIST 3795 - Special Topics in West Asia (various titles to be assigned) (4.0 cr)
•HIST 3825 - Islamic History from Muhammad to the Ottomans (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)

Optional Electives

Take 0 or more course(s) from the following:
•HIST 2095 - Special Topics: History (Various Titles to be Assigned) (4.0 cr)
•HIST 3091 - Independent Study (1.0 - 4.0 cr)
•HIST 3095 - Special Topics: (various titles to be assigned) (4.0 cr)
•HIST 3097 - Internship in History (1.0 - 3.0 cr)
•HIST 3099 - Practicum in Teaching History (3.0 cr)
•HIST 3496 - International Field Work [GLOBAL PER] (4.0 cr)
•HIST 3525 - Introduction to Historic Preservation (4.0 cr)
•HIST 3535 - Material Culture: from Object to History (4.0 cr)
•HIST 3096 - Fieldwork in Public History (4.0 cr)
or HIST 3496 - International Field Work [GLOBAL PER] (4.0 cr)
•HIST 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
or WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)

Public History

Required credits to graduate with this degree: 120
Required credits within the major: 38

The program core offers introductory background and general training in public history. An internship offers additional specializations in historic preservation, exhibit design, and collection management. The curriculum provides students with in-depth knowledge in the traditional field of history; introduces students to the skills necessary to successfully undertake applied research; acquaints students with the different career options available in public history; offers students practical experience in public history; and exposes students

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to the professional and ethical dimensions of public history.

Program Core (6 cr)
The required internship must be taken for 3 credits.
MST 1200 - Introduction to Public History (3.0 cr)
HIST 3097 - Internship in History (1.0 - 3.0 cr)

Required Experience (8 cr)
Take 2 or more course(s) from the following:
•HIST 3525 - Introduction to Historic Preservation (4.0 cr)
•HIST 3535 - Material Culture: from Object to History (4.0 cr)
•HIST 3096 - Fieldwork in Public History (4.0 cr)
or HIST 3496 - International Field Work [GLOBAL PER] (4.0 cr)

Geographic Areas (19 cr)
Students must take at least one course from each Geographic Area.
* At most 8 credits (0-2 courses) at the 1xxx-2xxx level may apply.
* At least 12 credits (3-5 courses) must be at the 3xxx-4xxx level.
Students may elect to satisfy this requirement by taking all courses at the 3xxx-4xxx level.

Africa
Take 1 or more course(s) from the following:
•AAAS 1102 - Introduction to Atlantic Slave Trade [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3550 - Africa and Her Early American Diaspora (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3695 - Special Topics African History (various titles to be assigned) (4.0 cr)

East and Southeast Asia
Take 1 or more course(s) from the following:
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3495 - Special Topics East Asian History (Various Titles to be Assigned) (4.0 cr)

Europe
Take 1 or more course(s) from the following:
•HIST 1200 - World History to 1500: From Antiquity to the Age of Exploration [HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 1207 - Dawn of Modern Europe [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 1208 - Europe in the Modern Age [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 2345 - Science and Society: 1500 to Present [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 3133 - Ancient Greece from Homer to Alexander (4.0 cr)
•HIST 3141 - Ancient Rome: From Republic to Empire (4.0 cr)
•HIST 3145 - Ireland and the Construction of History (4.0 cr)
•HIST 3195 - Special Topics European History (various titles to be assigned) (4.0 cr)
•HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3264 - Russian Empire under the Tsars: Russia under the Romanovs from Peter the Great to Lenin [GLOBAL PER] (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3575 - Jews & Poles: Entangled Lives, Cultures and Memories in the 20th Century Poland - Study Abroad [GLOBAL PER] (4.0 cr)
•HIST 3580 - Eastern Europe during the Holocaust: A Virtual Experience (4.0 cr)
•HIST 3939 - Europe in the Age of Renaissance and Reformation: 1348-1648 (4.0 cr)
•HIST 3940 - Early Modern England: 1485-1689 (4.0 cr)

The Americas
Take 1 or more course(s) from the following:
•HIST 1304 - US History Part I: 1607-1877 [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 1305 - US History Part II: 1865-Present [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 1310 - Minnesota History (4.0 cr)
•HIST 2315 - Colonial Latin America (4.0 cr)
•HIST 2350 - Hunting and Gathering and the History of American Health [HUMANITIES, SUSTAIN] (4.0 cr)
•HIST 3310 - The American Revolution (4.0 cr)
•HIST 3313 - Global Surf Culture - Study Abroad [GLOBAL PER] (4.0 cr)
•HIST 3315 - Ideas of God in Early America (4.0 cr)
•HIST 3318 - Slavery, Lincoln and the Civil War [CDIVERSITY] (4.0 cr)
•HIST 3320 - American Popular Culture, 1929 to the Present (4.0 cr)
•HIST 3355 - War and American Society, 1500-Present (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3395 - Special Topics The Americas (various titles to be assigned) (4.0 cr)

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•HIST 3396 - The Vietnam War (4.0 cr)

West Asia

Take 1 or more course(s) from the following:

•HIST 1027 - Introduction to Islam [LE CAT7, LEIP CAT07, HUMANITIES] (4.0 cr)
•HIST 3035 - Ancient Warfare From Alexander to Mohammad (4.0 cr)
•HIST 3038 - History of Christianity: Origins to 1054 (4.0 cr)
•HIST 3055 - The Bible & Ancient Near East (4.0 cr)
•HIST 3720 - History of Iran (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3730 - Ascetics, Mystics, and Yogis: Travel, Learning, and the Spiritual Quest (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HIST 3795 - Special Topics in West Asia (various titles to be assigned) (4.0 cr)
•HIST 3825 - Islamic History from Muhammad to the Ottomans (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)

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Duluth Campus

History Minor

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 15 to 16

The history minor offers students an introduction to historical literature and methods while concentrating on two of five geographic fields within the history discipline.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (15-16 cr)

Students must take classes from at least two Geographic Areas. Courses from the Optional Electives may apply towards the credit total.

* Take at most 8 credits (0-2 courses) at the 1xxx-2xxx level.
* Take at least 8 credits (2-4 courses) at the 3xxx-4xxx level.

Students may elect to satisfy this requirement by taking all courses at the 3xxx-4xxx level or above from the lists below.

Take 15 - 16 credit(s) from the following:

Africa

Take 0 or more course(s) from the following:

- AAAS 1102 - Introduction to Atlantic Slave Trade [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
- HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
- HIST 3550 - Africa and Her Early American Diaspora (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- HIST 3695 - Special Topics African History (various titles to be assigned) (4.0 cr)

East and Southeast Asia

Take 0 or more course(s) from the following:

- HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 2405 - History of Chinese Culture (4.0 cr)
- HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
- HIST 3463 - History of Modern China (4.0 cr)
- HIST 3465 - Twentieth Century China Politics (4.0 cr)
- HIST 3495 - Special Topics East Asian History (Various Titles to be Assigned) (4.0 cr)

Europe

Take 0 or more course(s) from the following:

- HIST 1200 - World History to 1500: From Antiquity to the Age of Exploration [HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 1207 - Dawn of Modern Europe [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 1208 - Europe in the Modern Age [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 2345 - Science and Society: 1500 to Present [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 3133 - Ancient Greece from Homer to Alexander (4.0 cr)
- HIST 3141 - Ancient Rome: From Republic to Empire (4.0 cr)
- HIST 3145 - Ireland and the Construction of History (4.0 cr)
- HIST 3195 - Special Topics European History (various titles to be assigned) (4.0 cr)
- HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
- HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
- HIST 3264 - Russian Empire under the Tsars: Russia under the Romanovs from Peter the Great to Lenin [GLOBAL PER] (4.0 cr)
- HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
- HIST 3575 - Jews & Poles: Entangled Lives, Cultures and Memories in the 20th Century Poland - Study Abroad [GLOBAL PER] (4.0 cr)
- HIST 3580 - Eastern Europe during the Holocaust: A Virtual Experience (4.0 cr)
- HIST 3939 - Europe in the Age of Renaissance and Reformation: 1348-1648 (4.0 cr)
- HIST 3940 - Early Modern England: 1485-1689 (4.0 cr)

The Americas

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Take 0 or more course(s) from the following:
- HIST 1304 - US History Part I: 1607-1877 [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 1305 - US History Part II: 1865-Present [LE CAT7, HUMANITIES] (4.0 cr)
- HIST 1310 - Minnesota History (4.0 cr)
- HIST 2315 - Colonial Latin America (4.0 cr)
- HIST 2350 - Hunting and Gathering and the History of American Health [HUMANITIES, SUSTAIN] (4.0 cr)
- HIST 3310 - The American Revolution (4.0 cr)
- HIST 3313 - Global Surf Culture - Study Abroad [GLOBAL PER] (4.0 cr)
- HIST 3315 - Ideas of God in Early America (4.0 cr)
- HIST 3318 - Slavery, Lincoln and the Civil War [CDIVERSITY] (4.0 cr)
- HIST 3320 - American Popular Culture, 1929 to the Present (4.0 cr)
- HIST 3355 - War and American Society, 1500-Present (4.0 cr)
- HIST 3386 - The United States and the World since 1898 (4.0 cr)
- HIST 3395 - Special Topics The Americas (various titles to be assigned) (4.0 cr)
- HIST 3396 - The Vietnam War (4.0 cr)

- **West Asia**

Take 0 or more course(s) from the following:
- HIST 1027 - Introduction to Islam [LE CAT7, LEIP CAT07, HUMANITIES] (4.0 cr)
- HIST 3035 - Ancient Warfare From Alexander to Mohammad (4.0 cr)
- HIST 3038 - History of Christianity: Origins to 1054 (4.0 cr)
- HIST 3055 - The Bible & Ancient Near East (4.0 cr)
- HIST 3720 - History of Iran (4.0 cr)
- HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
- HIST 3730 - Ascetics, Mystics, and Yogis: Travel, Learning, and the Spiritual Quest (4.0 cr)
- HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
- HIST 3795 - Special Topics in West Asia (various titles to be assigned) (4.0 cr)
- HIST 3825 - Islamic History from Muhammad to the Ottomans (4.0 cr)
- HIST 4727 - Middle Eastern History Through Film (4.0 cr)

- **Optional Electives**

Take 0 or more course(s) from the following:
- HIST 2095 - Special Topics: History (Various Titles to be Assigned) (4.0 cr)
- HIST 3091 - Independent Study (1.0 - 4.0 cr)
- HIST 3095 - Special Topics: (various titles to be assigned) (4.0 cr)
- HIST 3097 - Internship in History (1.0 - 3.0 cr)
- HIST 3099 - Practicum in Teaching History (3.0 cr)
- HIST 3525 - Introduction to Historic Preservation (4.0 cr)
- HIST 3535 - Material Culture: from Object to History (4.0 cr)
- HIST 3096 - Fieldwork in Public History (4.0 cr)

  or HIST 3496 - International Field Work [GLOBAL PER] (4.0 cr)
- HIST 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)

  or WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)

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Duluth Campus

Interdisciplinary Studies B.A.

College of Liberal Arts - Adm

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 51 to 62
- Degree: Bachelor of Arts

The program is for students whose educational objectives can best be met by integrating courses across departments. This major is unique because it is individually designed; students work with 2-3 faculty advisors to create a framework that involves courses from several fields of study. It may encompass the natural sciences, social sciences, cultural studies, fine arts, technical and professional fields, or a combination of these.

This major offers two tracks: an Individualized Plan that allows students to choose the emphasis of their major, and a Medical Arts and Sciences Plan that prepares students for health-related careers. Both plans require students to choose the specific focus of their program and craft a curriculum to fit that focus.

Unlike many UMD majors, Interdisciplinary Studies is available only by formal application and approval by the student's faculty advisors and the Interdisciplinary Studies Program Director. Students cannot apply for a change of major until their program has been approved.

Proposals must incorporate at least three different areas of study, including at least 12 credits from within the College of Arts, Humanities, and Social Sciences. Students are welcome to include courses from other UMD colleges.

Visit the IS site for further information: z.umn.edu/umdis

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.
3. A cumulative U of MN GPA of at least 2.50 is required with the application.
4. Within the proposal, at least three areas of study are included and 12 credits must be from the collegiate unit offering this program.
5. In consultation with 2-3 faculty advisors, students develop an application including:
   - A statement of their educational objectives.
   - A chosen track (Individual Plan or Medical Arts and Sciences Plan).
   - Identified two methods courses (minimum 6 credits).
   - A list of proposed courses that will form the student's curriculum (minimum 36 credits).

In most cases, students must submit their proposal before completing 70 credits. Exceptions include returning students, transfer students admitted with 70 or more credits, and active military or veteran students, who may declare the major before completing 90 credits. These students are only eligible for the Individualized Plan track.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Core (4 cr)

IS 2001 - Sustainability Across Disciplines [SUSTAIN] (4.0 cr)

Methods Courses (6-8 cr)

All students are required to complete two research methods courses appropriate to their final project before they register for senior project. These courses are chosen in consultation with the student's faculty advisors and the program director.

Take 2 or more course(s) from the following:
•Methods course (3-4 cr)

Senior Project (1-10 cr)

The senior project usually results in an academic paper of 15-30 pages. The project may be an internship, portfolio, exhibit, tour, or field study. The project includes a bibliography of library resources showing general knowledge of the topic and a written paper, report, journal, or analysis of how the program has affected one's personal and intellectual development. A copy of the project must be filed with the program director.

IS 3093 - Senior Project (1.0 - 10.0 cr)

Proposed Electives (36 cr)

Students must complete a minimum of 36 upper division credits (3xxx or above) across three or more areas of study; 12 credits must be from the CAHSS collegiate unit.
(IS proposed course)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Individualized Plan

This track allows students to choose the emphasis of their major. This track may encompass the natural sciences, social sciences, cultural studies, fine arts, technical and professional fields, or a combination of these. The program admission application should be carefully crafted with advice from faculty advisors. Students should contact the program director for help identifying potential advisors.

Students must declare this track of the major before completing 70 credits. Exceptions include returning students, transfer students admitted with 70 or more credits, and active military or veteran students, who may declare this track of the major before completing 90 credits.

Visit the IS site for further information: z.umn.edu/umdis

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Medical Arts and Science Plan

This track is for students who plan to enter medical school or a health-related field after graduation but want to pursue coursework with a heavier liberal arts emphasis than the traditional 'pre-med' trajectory. Within the track, students can design a curriculum to suit their individual interests; examples might include holistic health, food politics, or midwifery. The Interdisciplinary Studies website provides a list of potential courses for students to consider as they work with faculty advisors to design a program of study.

Students must declare this track of the major before completing 70 credits.

Visit the IS site for further information: z.umn.edu/umdis

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Duluth Campus

International Studies B.A.

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 32 to 38
- Degree: Bachelor of Arts

International Studies is based on understanding a variety of perspectives. Students tackle such issues as human rights, the environment, and conflict and cooperation and examine them through the perspective of multiple disciplines, people, cultures, and countries all with unequal resources, abilities, and worldviews. Students choose from a variety of courses as they begin to understand the complexity of our world, the controversies and conflicts we face, and how compromise can be found in the face of seemingly insurmountable problems.

Students will gain a broad background in contemporary international affairs and the skills necessary to participate effectively in the global community. The program incorporates courses and faculty from many different departments and programs. Majors and minors are strongly encouraged to study a world language and to incorporate a study abroad experience into their programs.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. World language study is strongly recommended.
3. Global experience is a UMD goal for all students, international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (6 cr)
INTS 1010 - Introduction to International Studies [GLOBAL PER] (3.0 cr)
POL 1050 - International Relations [LE CAT, GLOBAL PER] (3.0 cr)

Foundations (3-4 cr)
Take 1 or more course(s) totaling 3 - 4 credit(s) from the following:
•ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
•GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)

Global Issue-Based Electives (9-12 cr)
To complete this requirement students take at least 3 courses from at least 2 different subjects, such as AMIN, POL, or WS. This elective area is broadly focused on contemporary global issues, such as health, poverty, the environment, or security, as international problems rather than state specific issues. Students may apply study abroad, including short-term programs, or other courses with approval from the program director.
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
American Indian Studies
Take 0 - 1 course(s) from the following:
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•Anthropology
Take 0 - 2 course(s) from the following:
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•Art History
Take 0 - 1 course(s) from the following:
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•Communication
Take 0 - 2 course(s) from the following:
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•Economics
Take 0 - 1 course(s) from the following:
•ECON 3150 - Development Economics (3.0 cr)
•Geography
Take 0 - 2 course(s) from the following:
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•History
Take 0 - 1 course(s) from the following:
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•Health
Take 0 - 1 course(s) from the following:
•HLTH 4700 - Global Health (3.0 cr)
•Lesbian, Gay, Bisexual, Transgender & Queer Studies
Take 0 - 2 course(s) from the following:
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•Political Science
Take 0 - 2 course(s) from the following:

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•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)

•Women's Studies
Take 0 - 2 course(s) from the following:
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)

•International Studies
Take 0 - 1 course(s) from the following:
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
or POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)

•Proposed Elective (optional)
Students may propose one course to this Elective area. INTS 3191 & INTS 3197 may apply with approval from the program director.

Regional Political, Culture or Art Electives (6-8 cr)
To complete this requirement students take at least 2 courses from at least 2 different subjects, such as ANTH, HIST, or SPAN. These courses focus on the contemporary politics, culture, or art of a particular country or region. Students may apply study abroad, including short-term programs, or other courses with approval from the program director.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:

African and African American Studies
Take 0 - 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)

•American Indian Studies
Take 0 - 1 course(s) from the following:
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)

•Anthropology
Take 0 - 1 course(s) from the following:
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)

•Art History
Take 0 - 1 course(s) from the following:
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)

•French
Take 0 - 1 course(s) from the following:
•FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)

•Geography
Take 0 - 1 course(s) from the following:
•GEOG 3712 - Geography of Latin America (3.0 cr)

•German
Take 0 - 1 course(s) from the following:
•GER 2402 - Germany Today [LE CAT8, LEIP CAT08, HUMANITIES] (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)

•History
Take 0 - 1 course(s) from the following:
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)

•Political Science
Take 0 - 1 course(s) from the following:
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)

•Spanish

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Take 0 - 1 course(s) from the following:
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)

- **Women's Studies**

Take 0 - 1 course(s) from the following:
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

- **Proposed Elective (optional)**

Students may propose one course to this Elective area. INTS 3191 & INTS 3197 may apply with approval from the program director.

Seminar (4 cr)

INTS 4100 - Seminar in International Studies (4.0 cr)

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Duluth Campus

International Studies Minor

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 21

This minor increases students' familiarity with their global surroundings and their understanding of important global issues and concerns. It provides them with an awareness of various aspects of international relations and an appreciation of the challenges and opportunities confronting specific world regions.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

World language study and/or study abroad are strongly recommended.

Core (6 cr)

Take both of the following courses:
INTS 1010 - Introduction to International Studies [GLOBAL PER] (3.0 cr)
POL 1050 - International Relations [LE CAT, GLOBAL PER] (3.0 cr)

Foundations (3 cr)

Take one of the following courses.
ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
or GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
or HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)

Electives (12 cr)

Students take at least 4 courses, from at least 2 different subjects and at least 12 credits at or above the 2xxx level. One course must be at least 3 credits at the 3xxx level or higher. Students may apply to study abroad, including short-term programs, or other appropriate courses with approval from the INTS director. Other courses must be approved by the INTS director prior to the completion of the courses.

African and African American Studies

Take 0 - 1 course(s) from the following:
- AAAS 3202 - African Story-Telling and Folklore (3.0 cr)

American Indian Studies

Take 0 - 2 course(s) from the following:
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)

Anthropology

Take 0 - 2 course(s) from the following:
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4640 - Medical Anthropology (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ANTH 4653 - Senior Seminar (3.0 cr)

Art History

Take 0 - 2 course(s) from the following:
- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
- ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
- ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)

Communication

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Take 0 - 2 course(s) from the following:
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
- COMM 4210 - Theories of Intercultural Communication (3.0 cr)

Economics

Take 0 - 1 course(s) from the following:
- ECON 3150 - Development Economics (3.0 cr)

French

Take 0 - 2 course(s) from the following:
- FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
- FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)

Geography

Take 0 - 2 course(s) from the following:
- GEOG 3370 - Geographies of Development (3.0 cr)
- GEOG 3411 - Human Environment Interactions (3.0 cr)
- GEOG 3422 - Natural Hazards (3.0 cr)
- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GEOG 3712 - Geography of Latin America (3.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)

German

Take 0 - 2 course(s) from the following:
- GER 2402 - Germany Today [LE CAT8, LEIP CAT08, HUMANITIES] (3.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)

Health

Take 0 - 1 course(s) from the following:
- HLTH 4700 - Global Health (3.0 cr)

History

Take 0 - 2 course(s) from the following:
- HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
- HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
- HIST 3386 - The United States and the World since 1898 (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
- HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)

Lesbian, Gay, Bisexual, Transgender and Queer Studies

Take 0 - 2 course(s) from the following:
- LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
- LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)

Political Science

Take 0 - 2 course(s) from the following:
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3403 - American Foreign Policy (3.0 cr)
- POL 3420 - International Organization and Global Governance (3.0 cr)
- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- POL 3575 - Latin American Politics and Development (3.0 cr)
- POL 3580 - Central American Politics (3.0 cr)
- INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)

  or POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)

Spanish

Take 0 - 2 course(s) from the following:
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)

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Women's Studies

Take 0 - 2 course(s) from the following:

- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

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Duluth Campus

Jazz Studies B.Mus.

Music

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 90
- Degree: Bachelor of Music

The B.Mus. in jazz studies is for students pursuing programs of intensive study to prepare for professional careers in jazz studies and/or for acceptance into a graduate degree program, to assist students to acquire high quality jazz performance artistry, and to provide students advanced historical, and theoretical knowledge of jazz music(s).

Department honors requirements: Candidates, nominated by music department faculty, receive honors for distinguished achievement in musical performance, composition, or exceptional ability and accomplishment as a music educator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 transferring from outside the University

Students must pass a performance audition to be accepted into any music degree program. At the time of the audition, students must also complete diagnostic examinations in theory/aural/keyboard skills and an interview with the department head or an appointed designee. Any student who receives provisional acceptance into a degree program must pass a review (usually at the end of the first semester) to receive full acceptance. That review includes recommendations of major instructors and successful completion of an applied jury. Transfer students must have a 2.50 GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Courses with grades less than C- will not count towards the major.

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3. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Recital Hour (0 cr)
MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 8 or more course(s) from the following:
•MU 100 - Recital Hour (0.0 cr)

Introductory Core (22 cr)
MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)
MU 2111 - Tonal Harmony III (3.0 cr)
MU 2112 - Ear-Training III (1.0 cr)
MU 2121 - Tonal Harmony IV (3.0 cr)
MU 2122 - Ear-Training, Sight Singing and Improvisation (1.0 cr)
MU 3201 - Music History I (3.0 cr)
MU 3202 - Music History II (3.0 cr)

Jazz Core (21 cr)
Register for 1 cr of MU 4997.
MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
MU 2110 - Jazz Theory (2.0 cr)
MU 2802 - Jazz Improvisation I (2.0 cr)
MU 2803 - Jazz Improvisation II (2.0 cr)
MU 3705 - Instrumental Conducting I (1.0 cr)
MU 3805 - Jazz Writing I (2.0 cr)
MU 3806 - Jazz Writing II (2.0 cr)
MU 3807 - Jazz Literature (2.0 cr)
MU 4803 - Jazz Pedagogy (2.0 cr)
MU 4807 - Music Industry (2.0 cr)
MU 4997 - Internship in Music (1.0 - 2.0 cr)

Piano Core (2 cr)
MU 1421 - Piano Class I (1.0 cr)
MU 1422 - Piano Class II (1.0 cr)

Applied Instruction Foundations - Lower Division (1000 level) (8 cr)
One course is taken for four semesters. MU 100 must be taken concurrently each semester with the applied principal instrument course. Take these courses prior to passing MU 300.
Take 4 or more course(s) totaling 8 or more credit(s) from the following:
•MU 1325 - Jazz Piano-Major (2.0 - 3.0 cr)
•MU 1327 - Jazz Applied (2.0 cr)
•MU 1359 - Bass - Major (2.0 - 3.0 cr)
•MU 1361 - Clarinet - Major (2.0 - 3.0 cr)
•MU 1363 - Saxophone - Major (2.0 - 3.0 cr)
•MU 1371 - Trumpet - Major (2.0 - 3.0 cr)
•MU 1373 - Trombone - Major (2.0 - 3.0 cr)
•MU 1381 - Percussion-Major (2.0 - 3.0 cr)
•MU 1395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Advanced Standing Exam

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MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level) (8 cr)

One course is taken for four semesters. MU 100 must be taken concurrently each semester with the applied principal instrument course. Take these courses after passing MU 300.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 4325 - Jazz Piano-Major (2.0 - 3.0 cr)
- MU 4359 - Bass - Major (2.0 - 3.0 cr)
- MU 4361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 4363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 4371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 4373 - Trombone - Major (2.0 - 3.0 cr)
- MU 4381 - Percussion-Major (2.0 - 3.0 cr)
- MU 4395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Applied Instruction Foundations - Jazz (8 cr)

You must complete one of the following options by taking 2 credits in your principal instrument for four semesters.

Jazz Applied

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 1327 - Jazz Applied (2.0 cr)

or **Guitar**

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 1391 - Classical Guitar-Major (2.0 - 3.0 cr)

or **Keyboard**

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 1321 - Piano-Major (2.0 - 3.0 cr)

Ensemble Foundations (16 credits)

Take 2 courses/2 credits each semester. Fulfill this requirement by repeating or taking a combination of courses in the following areas.

Jazz Ensembles

Take 6 or more course(s) totaling 6 or more credit(s) from the following:

- MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
- MU 4505 - Jazz Ensemble (1.0 cr)

Jazz Combo or Jazz Guitar Ensembles

Take 6 or more course(s) totaling 6 or more credit(s) from the following:

- MU 1541 - Chamber Music (1.0 cr)
- MU 4541 - Chamber Music (1.0 cr)

Additional Ensembles

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
- MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
- MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
- MU 1504 - Chamber Orchestra [LE CAT, FINE ARTS] (1.0 cr)
- MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
- MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
- MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)
- MU 1515 - Percussion Ensemble (1.0 cr)
- MU 1541 - Chamber Music (1.0 cr)
- MU 4501 - Concert Band (1.0 cr)
- MU 4502 - Symphonic Wind Ensemble (1.0 cr)
- MU 4503 - Symphony Orchestra (1.0 cr)
- MU 4504 - Chamber Orchestra (1.0 cr)
- MU 4505 - Jazz Ensemble (1.0 cr)
- MU 4510 - Concert Chorale (1.0 cr)
- MU 4511 - University Singers (1.0 cr)
- MU 4515 - Percussion Ensemble (1.0 cr)
- MU 4541 - Chamber Music (1.0 cr)

Senior Recital (1 cr)

MU 4300 - Senior Recital (1.0 cr)

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Duluth Campus

Jazz Studies Minor

Music

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 28

This minor offers students an opportunity to focus on improvisatory music performance and study in historical and contemporary jazz styles. Students participate in large and small jazz bands and complete coursework engaging them with America's great indigenous musical art form.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Recital Hour (0 cr)

MU 100 must be taken concurrently each semester with applied instruction in principal instrument.

Take 4 or more course(s) from the following:

- MU 100 - Recital Hour (0.0 cr)

Core (19 cr)

MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)
MU 2802 - Jazz Improvisation I (2.0 cr)
MU 2803 - Jazz Improvisation II (2.0 cr)
MU 4803 - Jazz Pedagogy (2.0 cr)
MU 4807 - Music Industry (2.0 cr)

Foundations (6 cr)

Applied Instruction

One course is taken for four semesters. MU 100 must be taken concurrently each semester with the applied principal instrument course.

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1312 - Voice-Non Major (1.0 cr)
- MU 1322 - Piano-Non Major (1.0 cr)
- MU 1326 - Jazz Piano-Non Major (1.0 cr)
- MU 1332 - Organ-Non Major (1.0 cr)
- MU 1350 - Violin - Non-Major (1.0 cr)
- MU 1352 - Viola - Non-Major (1.0 cr)
- MU 1354 - Cello - Non-Major (1.0 cr)
- MU 1356 - Harp - Non-Majors (1.0 cr)
- MU 1358 - Bass - Non-Majors (1.0 cr)
- MU 1360 - Clarinet - Non-Major (1.0 cr)
- MU 1362 - Saxophone - Non-Major (1.0 cr)
- MU 1364 - Flute - Non-Major (1.0 cr)
- MU 1366 - Oboe - Non-Major (1.0 cr)
- MU 1368 - Bassoon - Non-Major (1.0 cr)
- MU 1370 - Trumpet - Non-Major (1.0 cr)
- MU 1372 - Trombone - Non-Major (1.0 cr)
- MU 1374 - French Horn - Non-Major (1.0 cr)
- MU 1376 - Tuba - Non-major (1.0 cr)
- MU 1378 - Euphonium - Non-Major (1.0 cr)
- MU 1382 - Percussion - Non-Major (1.0 cr)
- MU 1392 - Classical Guitar - Non-Major (1.0 cr)

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•MU 1396 - Jazz Guitar - Non-Major (1.0 cr)
•MU 1398 - Pop Styles Guitar- Non Major (1.0 cr)

Ensembles

Take 2 or more course(s) totaling 2 or more credit(s) from the following:
•MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1541 - Chamber Music (1.0 cr)
•MU 4505 - Jazz Ensemble (1.0 cr)
•MU 4541 - Chamber Music (1.0 cr)

Electives (3 cr)

Take 1 or more course(s) from the following:
•MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
•MU 2003 - Survey of American Music [LE CAT, FINE ARTS, CDIVERSITY] (3.0 cr)
•MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)
•MU 3202 - Music History II (3.0 cr)

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Duluth Campus

Journalism B.A.

Communication

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 41
- Degree: Bachelor of Arts

In an ever-changing media environment, the journalism major is designed to be innovative and dynamic, while adhering to a critical understanding of medias role in a diverse, global society. The major emphasizes community engagement and global competence. Our program gives students a toolbox of skills and a critical study of mass media. The program starts with courses in journalism and communication that provide a core set of skills and a critical exploration of journalism. It then requires students to create a program of study that offers flexibility in how they apply journalism. These skills are further honed through application in a professional media setting.

Students take courses from four categories:
Craft: courses in journalism and communication that develop skills in the practice of journalism.
Critical Inquiry: courses in journalism and communication that offer critical and theoretical study of journalism and mass media.
Practicum/Internship: courses where students apply their skills in a real-world situation through a practicum class, an internship, or working at campus media (e.g. The Bark, KUMD). This is the capstone experience.
Electives: courses that allow students to specialize their journalism studies based on their skills, interests and long-term goals.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

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Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (16 cr)
JOUR 2001 - Introduction to Journalism (3.0 cr)
JOUR 2101 - Journalist's Toolbox (3.0 cr)
JOUR 2501 - History of American Media (3.0 cr)
JOUR 3401 - Digital Storytelling (4.0 cr)
JOUR 3700 - Media Law and Ethics (3.0 cr)

Craft (3 cr)
Take 1 or more course(s) from the following:
•COMM 3505 - Media Communications (3.0 cr)
•JOUR 3001 - Local Journalism (3.0 cr)
•JOUR 4001 - Specialized Reporting: Narrative Nonfiction (3.0 cr)
•JOUR 4021 - Outdoor and Environmental Journalism (3.0 cr)

Critical Inquiry (3 cr)
Take 1 or more course(s) from the following:
•COMM 2101 - Foundations of Mass Communication [LE CAT8, SOC SCI] (3.0 cr)
•JOUR 2300 - Visual Journalism (3.0 cr)
•JOUR 2400 - Community and Journalism [GLOBAL PER] (3.0 cr)

Practicum or Internship (3 cr)
JOUR 4102 - Newsroom Practicum (3.0 cr)
or JOUR 4197 - Journalism Internship (1.0 - 3.0 cr)

Electives (12 cr)
Students take at least one course from the Journalism Electives list.
Journalism Electives
JOUR courses not fulfilling a requirement elsewhere in the major will apply here.
Take 1 - 4 course(s) from the following:
•JOUR 3095 - Special Topics: Journalism Inquiry (theory) (Titles to be assigned). (3.0 cr)
•JOUR 3195 - Special Topics: Journalism Craft (skills) (Titles to be Assigned) (3.0 cr)
•JOUR 3501 - Audio Stories for Podcasts and Radio (3.0 cr)
•JOUR 3555 - Data Journalism (3.0 cr)
•JOUR 4200 - Social Media in the Digital Age: From Pictographs to Pixels (3.0 cr)
•JOUR 2xxx-4xxx
•**Optional Experience (consent required)**
Take 0 - 3 credit(s) from the following:
•JOUR 3991 - Independent Study (1.0 - 3.0 cr)
Optional Complementary Electives
Students are encouraged to look campus-wide for complementary courses. Students are encouraged to meet with their advisor about their elective choices and alternative complementary courses. Specific COMM courses not fulfilling a requirement elsewhere in the major will apply here (COMM 2101, 3505).
Take 0 - 3 course(s) from the following:
•ART 1605 - Fundamentals of Photography [LE CAT, FINE ARTS] (3.0 cr)
•COMM 3211 - Communication and Technology in the Information Age (3.0 cr)
•COMM 3405 - Health Campaigns (3.0 cr)
•COMM 3520 - Media Effects [SOC SCI] (3.0 cr)
•COMM 3525 - Deciding What's News (3.0 cr)
•COMM 3550 - Children and Media (3.0 cr)
•COMM 3615 - Analysis of Public Discourse (3.0 cr)
•COMM 4505 - Media Theory and Research (3.0 cr)
•WRIT 1506 - Literacy, Technology and Society [LE CAT, HUMANITIES] (3.0 cr)
•WRIT 4100 - Introduction to Grant Writing and Project Planning (3.0 cr)

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•WRIT 4250 - New Media Writing (3.0 cr)

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Duluth Campus

Journalism Minor

Communication

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 21

In an ever-changing media environment, this minor exposes students to a toolbox of skills and a critical study of mass media. Students are allowed to choose electives in the program that will further complement their area of study.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (15 cr)

JOUR 2001 - Introduction to Journalism (3.0 cr)
JOUR 2101 - Journalist's Toolbox (3.0 cr)
JOUR 2300 - Visual Journalism (3.0 cr)
JOUR 3001 - Local Journalism (3.0 cr)
JOUR 3700 - Media Law and Ethics (3.0 cr)

Electives (6 cr)

Take 2 or more course(s) from the following:

- JOUR 2400 - Community and Journalism [GLOBAL PER] (3.0 cr)
- JOUR 2501 - History of American Media (3.0 cr)
- JOUR 3095 - Special Topics: Journalism Inquiry (theory) (Titles to be assigned). (3.0 cr)
- JOUR 3195 - Special Topics: Journalism Craft (skills) (Titles to be Assigned) (3.0 cr)
- JOUR 3401 - Digital Storytelling (4.0 cr)
- JOUR 3501 - Audio Stories for Podcasts and Radio (3.0 cr)
- JOUR 3555 - Data Journalism (3.0 cr)
- JOUR 4001 - Specialized Reporting: Narrative Nonfiction (3.0 cr)
- JOUR 4021 - Outdoor and Environmental Journalism (3.0 cr)
- JOUR 4102 - Newsroom Practicum (3.0 cr)
- JOUR 4200 - Social Media in the Digital Age: From Pictographs to Pixels (3.0 cr)
- JOUR 2xxx - 4xxx
- **Optional Experience (consent required)**

  Take 0 - 6 credit(s) from the following:

  - JOUR 3991 - Independent Study (1.0 - 3.0 cr)
  - JOUR 4197 - Journalism Internship (1.0 - 3.0 cr)

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Duluth Campus

Lesbian, Gay, Bisexual, Transgender, and Queer Studies Minor

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 16

This program investigates historical, social, cultural, and theoretical representations and constructions of lesbian, gay, bisexual, transgender, queer, and intersex life in the U.S. and around the globe. Operating from the intersections of race, class, economic status, age, ability, and nationalityamong other configurations of identitythis program situates questions of sexual and gender orientation as fundamental to humanistic study, and is not limited to those who claim an LGBTQ or intersex identity. This program's interdisciplinary approach connects fields in the humanities, social sciences, life sciences, and fine arts, and produces knowledge beneficial to all fields.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division Core (7 cr)

WS 1000 - Introduction to Women's and Gender Studies [LE CAT, LECD C, CULT D, SOC SCI, CDIVERSITY] (3.0 cr)
WS 2001 - Introduction to Lesbian Gay Bisexual and Transgender Studies [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)

Upper Division Core (3 cr)

LGBT 3000 - Queer Theory (3.0 cr)

Electives (6 cr)

Take 2 or more course(s) from the following:

- LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
- LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
- LGBT 3153 - Queer Media [CDIVERSITY] (3.0 cr)
- LGBT 3xxx

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Duluth Campus

Linguistics B.S.

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 48 to 57
- Degree: Bachelor of Science

This degree prepares students to undertake the study of language in a rigorous, scientific manner. The major offers basic and advanced courses in the sound, structure, and meaning of language, and it teaches students the fundamental methods of scientific inquiry. The curriculum focuses on both the internal place of language in the human mind and brain, as well as the external role of language in communication and culture. Along the way, students will consider many topics in linguistics, such as syntactic structure of languages, semantic and pragmatic meaning, language acquisition, language disorders, language evolution, dialects and sociolinguistic variation, language and gender, computational linguistics, and many others. With topics such as these in mind, students will be trained to form research questions, gather data, and make arguments based upon their observations. They will also gain experience working with a wide range of languages and diverse cultures. The program will also require a background in science and mathematics consistent with a bachelor of science degree, which will allow students a straightforward double major in many of the established science majors at the University.

There is a diversity of employment opportunities for linguistics majors. The analytical skills and experience with language makes linguistic majors particularly appealing to computer and software companies, as writers and analysts of all types, in education, in projects such as speech recognition and machine translation, and as preparation for advanced study in all of the liberal arts, social sciences, and computer sciences disciplines. Finally, the United States Department of Homeland Security and federal law enforcement agencies routinely hire employees trained in linguistics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

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General Requirements

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2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (either a minor, another major or dual degree) is required for this major.

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2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (9 cr)
Take 3 or more course(s) from the following:
•LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
•LING 3102 - Syntax (3.0 cr)
•LING 3103 - Semantics and Pragmatics (3.0 cr)

Math Foundations (8-10 cr)
Take two courses from the following options.
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)

Natural Science Foundations (7-10 cr)
Take one of the following sequences.
Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
or **Chemistry**
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
or **Geography**
GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
GEOG 3401 - Weather and Climate (3.0 cr)
or GEOG 3422 - Natural Hazards (3.0 cr)
or **Earth & Environmental Sciences**
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2311 - Mineralogy (4.0 cr)
or EES 2312 - Petrology (4.0 cr)
or **Physics**
Physics I
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)

Supporting Foundations (6-8 cr)
Take two additional courses from technical/math or natural sciences. Courses may be from one area or across fields of study.
Take 2 or more course(s) from the following:
•BIOL 2xxx-3xxx
CHEM 2xxx-3xxx
CS 1xxx-3xxx
EES 2xxx-3xxx
GIS 2xxx-3xxx
MATH 3xxx-4xxx
PHYS 3xxx-4xxx
STAT 1xxx-5xxx

Electives (15-17 cr)
Students must take at least 5 courses to reach a minimum of 15 credits. Three courses must come from the Linguistics lists. Students have the option of reaching the 15 credit requirement by taking more LING courses or a maximum of two courses from the Optional External Electives list.
Linguistics Electives

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Take 3 - 5 course(s) from the following:
- LING 2101 - Phonetics and Phonology [NAT SCI] (3.0 cr)
- LING 2195 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- LING 2600 - Language in Society [SOC SCI, CDIVERSITY] (3.0 cr)
- LING 3104 - Python Programming for Language Researchers [LOGIC & QR] (3.0 cr)
- LING 3203 - Linguistics and Social Media (3.0 cr)
- LING 4103 - Morphology: Word Structures and Rules (3.0 cr)
- LING 4104 - Corpus Linguistics (3.0 cr)
- LING 4105 - Cognitive Linguistics (3.0 cr)
- LING 4195 - Special Topics: (various titles to be assigned) (3.0 cr)
- LING 2xxx-4xxx
- **Optional Experience**

  Take 0 - 6 credit(s) from the following:
  - LING 3591 - Independent Study in Linguistics (1.0 - 3.0 cr)
  - LING 4852 - Teaching Assistantship in Linguistics (1.0 - 3.0 cr)

Optional External Electives

Take 0 - 2 course(s) from the following:
- ASL 3003 - Intermediate American Sign Language I [COMM & LAN] (3.0 cr)
- ASL 3004 - Intermediate American Sign Language II [COMM & LAN] (3.0 cr)
- CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- CS 5222 - Artificial Intelligence (4.0 cr)
- CS 5232 - Introduction to Machine Learning and Data Mining (4.0 cr)
- CS 5242 - Natural Language Processing (4.0 cr)
- ENGL 5821 - History of the English Language (4.0 cr)
- FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
- FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
- GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
- PHIL 1025 - Introduction to Cognitive Science [NAT SCI] (3.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PSY 3621 - Cognition (4.0 cr)
- PSY 3661 - Psychology of Language (3.0 cr)
- SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
- SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

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Duluth Campus

Linguistics Minor

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18 to 20

This minor emphasizes two important facets of human language: the mathematical and social aspects of language. To understand the formal mathematical nature of human language, courses are offered in the areas of phonology, morphology, and syntax. The issues of language as social phenomena are dealt with in diverse, socio-cultural linguistics courses. After minoring in linguistics, students will achieve a high level of analytical ability, which is necessary not only in linguistics, but also in many other related fields, including computer science, mathematics, philosophy, and psychology.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (6 cr)

LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
LING 3102 - Syntax (3.0 cr)

Electives (12-14 cr)

Students must take at least 4 courses. Three courses must come from the Linguistics lists. Students have the option of reaching the requirement by taking more LING courses or a maximum of one course from the Optional Language Elective list.

Linguistics Electives

Take 3 - 4 course(s) from the following:

- ENGL 4821 - History of the English Language (4.0 cr)
- LING 2101 - Phonetics and Phonology [NAT SCI] (3.0 cr)
- LING 2195 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- LING 2600 - Language in Society [SOC SCI, CDIVERSITY] (3.0 cr)
- LING 3103 - Semantics and Pragmatics (3.0 cr)
- LING 3104 - Python Programming for Language Researchers [LOGIC & QR] (3.0 cr)
- LING 3203 - Linguistics and Social Media (3.0 cr)
- LING 4103 - Morphology: Word Structures and Rules (3.0 cr)
- LING 4104 - Corpus Linguistics (3.0 cr)
- LING 4105 - Cognitive Linguistics (3.0 cr)
- LING 4195 - Special Topics: (various titles to be assigned) (3.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PSY 3661 - Psychology of Language (3.0 cr)
- LING 2xxx-4xxx
- **Optional Experience**

  Take 0 - 3 course(s) totaling 0 - 3 credit(s) from the following:

  - LING 3591 - Independent Study in Linguistics (1.0 - 3.0 cr)
  - LING 4852 - Teaching Assistantship in Linguistics (1.0 - 3.0 cr)

Optional Language Elective

Take 0 - 1 course(s) from the following:

- AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- ASL 3003 - Intermediate American Sign Language I [COMM & LAN] (3.0 cr)
- ASL 3004 - Intermediate American Sign Language II [COMM & LAN] (3.0 cr)
- CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
- CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
- FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)

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•FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
•GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
•SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

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Duluth Campus

Museum Studies Certificate

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 16 to 17
- Potential internship sites to include several museums in Duluth, as well as Superior, WI, Virginia, Eveleth, Hibbing, Grand Rapids, Ely, Tower, the North Shore area, Pine City as well as potential institutions in Ireland and England.
- Degree: Museum Studies Certificate

This certificate unites history, theory, and practical learning in a curriculum that prepares participants for professional or volunteer careers in administration, collections, and specialty disciplines within museums, archives, tribal collections, zoos, aquariums, parks, and botanical gardens.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Please see the following UMD site for details on how to apply for this certificate:
z.umn.edu/umdcert

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

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1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Core (6 cr)

MST 1100 - Introduction to Museums (3.0 cr)
MST 1200 - Introduction to Public History (3.0 cr)

Museum Studies Foundations (3-4 cr)

Take 1 or more course(s) from the following:

- ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
- ENGL 4661 - Publishing the Middle Ages (4.0 cr)
- MST 3100 - Introduction to Museum Education (3.0 cr)

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Business Foundations (4 cr)

These courses are provided in an online format and can be taken in any order. See course offerings for variable start dates of courses (1st half, 2nd half or full-term).

Take 2 or more course(s) from the following:

- BUS 2100 - Fundamentals of Accounting (2.0 cr)
- BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
- BUS 2700 - Fundamentals of Marketing (2.0 cr)

Internship (3 cr)

Take 1 or more course(s) from the following:

MST 3097 - Internship (3.0 cr)

or MST 3397 - International Internship [GLOBAL PER] (3.0 cr)

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Duluth Campus

Music B.A.

Music

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 58
- Degree: Bachelor of Arts

This degree offers students a general course of music study in a liberal arts setting, providing students an overview of music theory, history, and performance practice. The program helps students acquire a broad and general understanding of music as a cultural/social phenomenon.

Department Honors Requirements: Candidates, nominated by music department faculty, receive honors for distinguished achievement in musical performance, composition, or exceptional ability and accomplishment as a music educator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 transferring from outside the University

Students must pass a performance audition to be accepted into any music degree program. At the time of the audition, students must also complete diagnostic examinations in theory/aural/keyboard skills and an interview with the department head or an appointed designee. Any student who receives provisional acceptance into a degree program must pass a review (usually at the end of the first semester) to receive full acceptance. That review includes recommendations of major instructors and successful completion of an applied jury. Transfer students must have a 2.50 GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. Courses with grades less than C- will not count toward the major.

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3. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Recital Hour (0 cr)
MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 8 or more course(s) from the following:
•MU 100 - Recital Hour (0.0 cr)

Music Core (22 cr)
It is strongly recommended that students with voice as principal instrument register for MU 1411 Diction: Italian and English in the fall semester of their first year.
MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)
MU 2111 - Tonal Harmony III (3.0 cr)
MU 2112 - Ear-Training III (1.0 cr)
MU 2121 - Tonal Harmony IV (3.0 cr)
MU 2122 - Ear-Training, Sight Singing and Improvisation (1.0 cr)
MU 3201 - Music History I (3.0 cr)
MU 3202 - Music History II (3.0 cr)

Conducting Foundations (1 cr)
Take 1 or more course(s) from the following:
MU 3703 - Choral Conducting (1.0 cr)
or MU 3705 - Instrumental Conducting I (1.0 cr)

Piano Core (2 cr)
Take 2 or more course(s) from the following:
•MU 1421 - Piano Class I (1.0 cr)
•MU 1422 - Piano Class II (1.0 cr)

Applied Instruction Foundations - Lower Division (1000 level) (8 cr)
Take 1 course each semester for 4 semesters. MU 100 must be taken concurrently each semester with your applied principal instrument course. Take these courses prior to passing MU 300. (With prior approval from a faculty advisor, students may complete 12 credits of MU 13xx and 4 credits of MU 43xx by submitting an exception.)
Take 4 or more course(s) totaling 8 or more credit(s) from the following:
•MU 1311 - Voice-Major (2.0 - 3.0 cr)
•MU 1321 - Piano-Major (2.0 - 3.0 cr)
•MU 1325 - Jazz Piano-Major (2.0 - 3.0 cr)
•MU 1331 - Organ-Major (2.0 - 3.0 cr)
•MU 1351 - Violin - Major (2.0 - 3.0 cr)
•MU 1353 - Viola - Major (2.0 - 3.0 cr)
•MU 1355 - Cello - Major (2.0 - 3.0 cr)
•MU 1357 - Harp - Major (2.0 - 3.0 cr)
•MU 1359 - Bass - Major (2.0 - 3.0 cr)
•MU 1361 - Clarinet - Major (2.0 - 3.0 cr)
•MU 1363 - Saxophone - Major (2.0 - 3.0 cr)
•MU 1365 - Flute - Major (2.0 - 3.0 cr)
•MU 1367 - Oboe - Major (2.0 - 3.0 cr)
•MU 1369 - Bassoon - Major (2.0 - 3.0 cr)
•MU 1371 - Trumpet - Major (2.0 - 3.0 cr)
•MU 1373 - Trombone - Major (2.0 - 3.0 cr)

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•MU 1375 - French Horn - Major (2.0 - 3.0 cr)
•MU 1377 - Tuba - Major (2.0 - 3.0 cr)
•MU 1379 - Euphonium - Major (2.0 - 3.0 cr)
•MU 1381 - Percussion-Major (2.0 - 3.0 cr)
•MU 1391 - Classical Guitar-Major (2.0 - 3.0 cr)
•MU 1395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Advanced Standing Exam
MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level) (8 cr)
Take 1 course each semester for 4 semesters. MU 100 must be taken concurrently each semester with your applied principal instrument course. Take these courses after passing MU 300.
Take 4 or more course(s) totaling 8 or more credit(s) from the following:
•MU 4311 - Voice-Major (2.0 - 3.0 cr)
•MU 4321 - Piano-Major (2.0 - 3.0 cr)
•MU 4325 - Jazz Piano-Major (2.0 - 3.0 cr)
•MU 4331 - Organ-Major (2.0 - 3.0 cr)
•MU 4351 - Violin - Major (2.0 - 3.0 cr)
•MU 4353 - Viola - Major (2.0 - 3.0 cr)
•MU 4355 - Cello - Major (2.0 - 3.0 cr)
•MU 4357 - Harp - Major (2.0 - 3.0 cr)
•MU 4359 - Bass - Major (2.0 - 3.0 cr)
•MU 4361 - Clarinet - Major (2.0 - 3.0 cr)
•MU 4363 - Saxophone - Major (2.0 - 3.0 cr)
•MU 4365 - Flute - Major (2.0 - 3.0 cr)
•MU 4367 - Oboe - Major (2.0 - 3.0 cr)
•MU 4369 - Bassoon - Major (2.0 - 3.0 cr)
•MU 4371 - Trumpet - Major (2.0 - 3.0 cr)
•MU 4373 - Trombone - Major (2.0 - 3.0 cr)
•MU 4375 - French Horn - Major (2.0 - 3.0 cr)
•MU 4377 - Tuba - Major (2.0 - 3.0 cr)
•MU 4379 - Euphonium - Major (2.0 - 3.0 cr)
•MU 4381 - Percussion-Major (2.0 - 3.0 cr)
•MU 4391 - Classical Guitar-Major (2.0 - 3.0 cr)
•MU 4395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Ensemble Foundations (8 cr)
Must take 1 course each semester for 8 semesters. All students are required to take at least 4 semesters of a primary ensemble associated with their principal instrument. The remaining required ensemble credits must also be associated with their principal instrument, but need not be from the primary ensemble course list.

Primary Ensemble
Take 4 - 8 course(s) from the following:
•MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
•MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
•MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
•MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
•MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)
•MU 4501 - Concert Band (1.0 cr)
•MU 4502 - Symphonic Wind Ensemble (1.0 cr)
•MU 4503 - Symphony Orchestra (1.0 cr)
•MU 4505 - Jazz Ensemble (1.0 cr)
•MU 4510 - Concert Chorale (1.0 cr)
•MU 4511 - University Singers (1.0 cr)

Additional Ensembles
Take 0 - 4 course(s) from the following:
•MU 1504 - Chamber Orchestra [LE CAT, FINE ARTS] (1.0 cr)
•MU 1512 - Chamber Singers [LE CAT, FINE ARTS] (1.0 cr)
•MU 1513 - Vocal Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1515 - Percussion Ensemble (1.0 cr)
•MU 3510 - Opera Studio [FINE ARTS] (1.0 cr)
•MU 4504 - Chamber Orchestra (1.0 cr)
•MU 4512 - Chamber Singers (1.0 cr)
•MU 4513 - Vocal Jazz Ensemble (1.0 cr)
•MU 4515 - Percussion Ensemble (1.0 cr)

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Electives (5 cr)
Take 2 or more course(s) totaling 5 or more credit(s) from the following:
•MU 2xxx-5xxx

Half Recital (0 cr)
MU 3350 - Half-Recital (0.0 cr)

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Duluth Campus

Music Education B.Mus.

Music

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 126 to 127
- Required credits within the major: 104 to 105
- Degree: Bachelor of Music

The Bachelor of Music (B.Mus.) degree in music education is for students planning to teach classroom instrumental or vocal music. This degree with vocal emphasis prepares students to teach K-12 Vocal and Classroom Music. This degree with an instrumental emphasis prepares students to teach K-12 Instrumental and Classroom Music. The program prepares and inspires students to acquire effective teaching skills and to develop a commitment to teaching and to music education. It prepares students to be advocates for music in the K-12 setting. Graduates with this degree may be recommended for Minnesota Teacher Licensure.

Department honors requirements: Candidates, nominated by music department faculty, receive honors for distinguished achievement in musical performance, composition, or exceptional ability and accomplishment as a music educator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 transferring from outside the University

Students must pass a performance audition, diagnostic exams in theory/aural/keyboard skills, & interview with music faculty. Students who receive provisional acceptance must later pass a review including recommendations from major instructors with successful completion of an applied jury. Students entering the Secondary Teacher Education Program (STEP) K-12 licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Department of Education consistent with the policies established by the MN Professional Educator Licensing & Standards Board (PELSB).

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Recital Hour (0 cr)

MU 100 must be taken each semester with applied instruction in your principal instrument.
Take 7 or more course(s) from the following:

- MU 100 - Recital Hour (0.0 cr)

Music Core (22 cr)

MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)

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MU 2111 - Tonal Harmony III (3.0 cr)
MU 2112 - Ear-Training III (1.0 cr)
MU 2121 - Tonal Harmony IV (3.0 cr)
MU 2122 - Ear-Training, Sight Singing and Improvisation (1.0 cr)
MU 3201 - Music History I (3.0 cr)
MU 3202 - Music History II (3.0 cr)

Music Education Core (8 cr)
MU 2605 - Introduction to Music Education (1.0 cr)
MU 3606 - Field Experience: Classroom Music Pre K-8 (1.0 cr)
MU 3608 - Teaching Elementary Music (3.0 cr)
MU 4606 - Special and Adaptive Methods in Music Education [CDIVERSITY] (3.0 cr)

Electives (5 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
- MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
- MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)

Take 1 or more course(s) totaling 2 or more credit(s) from the following:
- MU 2110 - Jazz Theory (2.0 cr)
- MU 3101 - Form and Analysis (2.0 cr)
- MU 4103 - Contrapuntal Techniques (2.0 cr)
- MU 4200 - Advanced Music History (2.0 cr)

Education Core (3 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)

General Requirements

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2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
2. Students are expected to make satisfactory progress each term, including grades of C- or better in all courses required in the major, and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 major and cumulative GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5) Abide by the MN Professional Educator Licensing and Standards Board (PELSB) and UMD Department of Education Code of Ethics.
6) Students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if

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Information current as of January 17, 2023

necessary.
7) Students are required to have professional liability insurance, purchased through the Education Minnesota Student Membership annually, before being placed in field experience, practicum, or student teaching in schools and agencies. Students can purchase the liability insurance online at: z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8) Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies. (http://d.umn.edu/academic-affairs/academic-policies)
9) Before block coursework, students must complete all Music Ed coursework, UMD Lib Ed Program, Adv Writing, and all other requirements outlined at: z.umn.edu/stepapplication. APPLICATION DEADLINE: The STEP application is due the 6th Friday of the term prior to starting Block 2. Application for admission can be only completed in spring terms for fall term entry into Block 2.
10) Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and UMD Department of Education and the CEHSP ALFE Office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11) Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the Teacher Performance Assessment (edTPA), completion of UMD Department of Education graduate exit survey, and successful completion of all tests required by PELSB.
12) Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Education Block 2 (14 cr)
All courses must be taken concurrently, alternate schedules by program consent.
> Liability insurance and approved background check must be complete.
> The student teaching application is due the 4th Friday of the term.
> Course deficiencies on Program Clearance Summary form must be addressed with academic advisor.
> Take MTLE Content Exams Block 2 and take MTLE Pedagogy exams immediately after Block 2.
> Consult advisor for additional upper division Music course(s).
EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

Education Block 3 (13 cr)
All courses must be taken concurrently.
> Liability insurance and approved background check must be complete.
> Students must have grades of C- or better in all required teaching major courses, meet the required GPA in the major, and complete at least 85% of major courses to be eligible for student teaching.
> Students register for EDSE 4600 and ELED 4650 for 6 cr each.
> Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600/ELED 4650.
EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)
ELED 4650 - Student Teaching in Individual Subjects: K-8 (1.0 - 6.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

Instrumental K-12
Required credits to graduate with this degree: 127
Required credits within the major: 105

This emphasis is for students planning to teach classroom or instrumental music. Completion of this degree results in the student receiving Minnesota Teacher Licensure, Instrumental and Classroom Music Grades K-12.

Instrumental Core (12 cr)
MU 1441 - Vocal Techniques (1.0 cr)
MU 1442 - Percussion Techniques (1.0 cr)
MU 2443 - Woodwind Techniques (1.0 cr)
MU 2445 - String Techniques (1.0 cr)
MU 2447 - Brass Techniques (1.0 cr)
MU 3607 - Instrumental Music Methods (3.0 cr)
MU 3705 - Instrumental Conducting I (1.0 cr)
MU 3706 - Instrumental Conducting II (1.0 cr)

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MU 4101 - Instrumental Arranging (2.0 cr)

Piano Core (2 cr)

MU 1421 - Piano Class I (1.0 cr)
MU 1422 - Piano Class II (1.0 cr)

Applied Instruction Foundations - Lower Division (1000 level) (8 cr)

You must take two credits each semester, excluding the semester you are student teaching. Take these courses prior to passing MU 300.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 1321 - Piano-Major (2.0 - 3.0 cr)
- MU 1325 - Jazz Piano-Major (2.0 - 3.0 cr)
- MU 1331 - Organ-Major (2.0 - 3.0 cr)
- MU 1351 - Violin - Major (2.0 - 3.0 cr)
- MU 1353 - Viola - Major (2.0 - 3.0 cr)
- MU 1355 - Cello - Major (2.0 - 3.0 cr)
- MU 1357 - Harp - Major (2.0 - 3.0 cr)
- MU 1359 - Bass - Major (2.0 - 3.0 cr)
- MU 1361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 1363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 1365 - Flute - Major (2.0 - 3.0 cr)
- MU 1367 - Oboe - Major (2.0 - 3.0 cr)
- MU 1369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 1371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 1373 - Trombone - Major (2.0 - 3.0 cr)
- MU 1375 - French Horn - Major (2.0 - 3.0 cr)
- MU 1377 - Tuba - Major (2.0 - 3.0 cr)
- MU 1379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 1381 - Percussion-Major (2.0 - 3.0 cr)
- MU 1391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 1395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Advanced Standing Exam

MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level) (6 cr)

Take these courses after passing MU 300.

Take 3 or more course(s) totaling 6 or more credit(s) from the following:

- MU 4321 - Piano-Major (2.0 - 3.0 cr)
- MU 4325 - Jazz Piano-Major (2.0 - 3.0 cr)
- MU 4331 - Organ-Major (2.0 - 3.0 cr)
- MU 4351 - Violin - Major (2.0 - 3.0 cr)
- MU 4353 - Viola - Major (2.0 - 3.0 cr)
- MU 4355 - Cello - Major (2.0 - 3.0 cr)
- MU 4357 - Harp - Major (2.0 - 3.0 cr)
- MU 4359 - Bass - Major (2.0 - 3.0 cr)
- MU 4361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 4363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 4365 - Flute - Major (2.0 - 3.0 cr)
- MU 4367 - Oboe - Major (2.0 - 3.0 cr)
- MU 4369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 4371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 4373 - Trombone - Major (2.0 - 3.0 cr)
- MU 4375 - French Horn - Major (2.0 - 3.0 cr)
- MU 4377 - Tuba - Major (2.0 - 3.0 cr)
- MU 4379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 4381 - Percussion-Major (2.0 - 3.0 cr)
- MU 4391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 4395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Ensemble Foundations (8 cr)

Take 1 credit each term, excluding the semester you are student teaching.

You may fulfill this requirement by repeating or taking a combination of the courses in this list.

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
- MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
- MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)

You may fulfill this requirement by repeating or taking a combination of the courses in this list.

Take 3 or more course(s) totaling 3 or more credit(s) from the following:

- MU 4501 - Concert Band (1.0 cr)
- MU 4502 - Symphonic Wind Ensemble (1.0 cr)

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•MU 4503 - Symphony Orchestra (1.0 cr)
Take 1 or more course(s) totaling 1 or more credit(s) from the following:
•MU 1504 - Chamber Orchestra [LE CAT, FINE ARTS] (1.0 cr)
•MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1541 - Chamber Music (1.0 cr)
•MU 4504 - Chamber Orchestra (1.0 cr)
•MU 4505 - Jazz Ensemble (1.0 cr)
•MU 4541 - Chamber Music (1.0 cr)

Half Recital (0 cr)
MU 3350 - Half-Recital (0.0 cr)

Vocal K-12

Required credits to graduate with this degree: 126
Required credits within the major: 104

This emphasis is for students planning to teach classroom or vocal music. Completion of this degree results in the student receiving Minnesota Teacher Licensure, Vocal and Classroom Music Grades K-12.

Vocal Core (9 cr)
MU 1411 - Diction: Italian and English (1.0 cr)
MU 1440 - Survey of Instrumental Techniques (1.0 cr)
MU 1441 - Vocal Techniques (1.0 cr)
MU 3701 - Choral Conducting and Methods I (3.0 cr)
MU 3702 - Choral Conducting and Methods II (3.0 cr)

Piano Core (4 cr)
MU 1421 - Piano Class I (1.0 cr)
MU 1422 - Piano Class II (1.0 cr)
MU 1423 - Piano Class III (1.0 cr)
MU 1424 - Piano Class IV (1.0 cr)

Applied Instruction Foundations - Lower Division (1000 level) (8 cr)
You must complete one of the following options by taking 2 credits in your principal instrument each semester. Take these courses prior to passing MU 300. Students whose principal instrument is keyboard have an additional requirement of non-major voice lessons.

Voice
Take 4 or more course(s) totaling 8 or more credit(s) from the following:
•MU 1311 - Voice-Major (2.0 - 3.0 cr)

or **Keyboard**
Students take 4 credits of voice lessons and 8 credits of piano.
Take 8 or more course(s) totaling 12 or more credit(s) from the following:
•MU 1312 - Voice-Non Major (1.0 cr)
•MU 1321 - Piano-Major (2.0 - 3.0 cr)

Advanced Standing Exam (0 cr)
MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level) (6 cr)
You must complete one of the below options, based on whether voice or keyboard is your principal instrument, by taking 2 credits each semester. You may take these classes after you complete MU 300.

Voice
Take 3 or more course(s) totaling 6 or more credit(s) from the following:
•MU 4311 - Voice-Major (2.0 - 3.0 cr)

or **Keyboard**
Take 3 or more course(s) totaling 6 or more credit(s) from the following:
•MU 4321 - Piano-Major (2.0 - 3.0 cr)

Ensemble Foundations (8 cr)
Take 1 credit each semester, except for the semester you are student teaching.

Lower Division Ensembles
You may fulfill this requirement by repeating or taking a combination of the courses in this list.
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
•MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
•MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)

Upper Division Ensembles
You may fulfill this requirement by repeating or taking a combination of the courses in this list.
Take 3 or more course(s) totaling 3 or more credit(s) from the following:
•MU 4510 - Concert Chorale (1.0 cr)
•MU 4511 - University Singers (1.0 cr)

Additional Ensemble
Take 1 or more course(s) totaling 1 or more credit(s) from the following:
•MU 3510 - Opera Studio [FINE ARTS] (1.0 cr)

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•MU 4512 - Chamber Singers (1.0 cr)
•MU 4513 - Vocal Jazz Ensemble (1.0 cr)

Half Recital (0 cr)

MU 3350 - Half-Recital (0.0 cr)

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Duluth Campus

Music Minor

Music

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 25

The minor in music is designed to offer additional study to students with a background and interest in music.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Recital Hour (0 cr)

MU 100 must be taken concurrently each semester with applied instruction in principal instrument.

Take 4 or more course(s) from the following:

- MU 100 - Recital Hour (0.0 cr)

Core (14 cr)

MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)
MU 3201 - Music History I (3.0 cr)
MU 3202 - Music History II (3.0 cr)

Foundations (8 cr)

Applied Instruction

One course is taken for four semesters. MU 100 must be taken concurrently each semester with your applied principal instrument course.

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1312 - Voice-Non Major (1.0 cr)
- MU 1322 - Piano-Non Major (1.0 cr)
- MU 1326 - Jazz Piano-Non Major (1.0 cr)
- MU 1332 - Organ-Non Major (1.0 cr)
- MU 1350 - Violin - Non-Major (1.0 cr)
- MU 1352 - Viola - Non-Major (1.0 cr)
- MU 1354 - Cello - Non-Major (1.0 cr)
- MU 1356 - Harp - Non-Majors (1.0 cr)
- MU 1358 - Bass - Non-Majors (1.0 cr)
- MU 1360 - Clarinet - Non-Major (1.0 cr)
- MU 1362 - Saxophone - Non-Major (1.0 cr)
- MU 1364 - Flute - Non-Major (1.0 cr)
- MU 1366 - Oboe - Non-Major (1.0 cr)
- MU 1368 - Bassoon - Non-Major (1.0 cr)
- MU 1370 - Trumpet - Non-Major (1.0 cr)
- MU 1372 - Trombone - Non-Major (1.0 cr)
- MU 1374 - French Horn - Non-Major (1.0 cr)
- MU 1376 - Tuba - Non-major (1.0 cr)
- MU 1378 - Euphonium - Non-Major (1.0 cr)
- MU 1382 - Percussion - Non-Major (1.0 cr)
- MU 1392 - Classical Guitar - Non-Major (1.0 cr)
- MU 1396 - Jazz Guitar - Non-Major (1.0 cr)
- MU 1398 - Pop Styles Guitar- Non Major (1.0 cr)

Ensembles

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)

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- MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
- MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
- MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
- MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)
- MU 4501 - Concert Band (1.0 cr)
- MU 4502 - Symphonic Wind Ensemble (1.0 cr)
- MU 4503 - Symphony Orchestra (1.0 cr)
- MU 4510 - Concert Chorale (1.0 cr)
- MU 4511 - University Singers (1.0 cr)

Electives (3 cr)

Take 1 or more course(s) from the following:

- MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
- MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
- MU 2003 - Survey of American Music [LE CAT, FINE ARTS, CDIVERSITY] (3.0 cr)
- MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)

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Duluth Campus

Performance B.Mus.

Music

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 84 to 93
- Degree: Bachelor of Music

The B.Mus. in performance is for students pursuing programs of intensive study to prepare for professional careers in music and/or acceptance into a graduate degree program. Students are assisted in acquiring high quality performance artistry and comprehensive and advanced historical and theoretical knowledge of musical styles, genres, and pedagogy.

Department Honors Requirements: Candidates, nominated by music department faculty, receive honors for distinguished achievement in musical performance, composition, or exceptional ability and accomplishment as a music educator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 transferring from outside the University

Students must pass a performance audition to be accepted into any music degree program. At the time of the audition, students must also complete diagnostic examinations in theory, aural, and keyboard skills, and an interview with the department head or an appointed designee. Any student who receives provisional acceptance into a degree program must pass a review (usually at the end of the first semester) to receive full acceptance. That review includes recommendations of major instructors and successful completion of an applied jury.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

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1) Courses with grades less than C- will not count toward the major.
2) Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Recital Hour (0 cr)
MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 8 or more course(s) from the following:
- MU 100 - Recital Hour (0.0 cr)

Introductory Core (22 cr)
MU 1111 - Tonal Harmony I (3.0 cr)
MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
MU 1122 - Ear-Training II (1.0 cr)
MU 2111 - Tonal Harmony III (3.0 cr)
MU 2112 - Ear-Training III (1.0 cr)
MU 2121 - Tonal Harmony IV (3.0 cr)
MU 2122 - Ear-Training, Sight Singing and Improvisation (1.0 cr)
MU 3201 - Music History I (3.0 cr)
MU 3202 - Music History II (3.0 cr)

Electives (5 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
- MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
- MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)

Take 1 or more course(s) totaling 2 or more credit(s) from the following:
- MU 2110 - Jazz Theory (2.0 cr)
- MU 3101 - Form and Analysis (2.0 cr)
- MU 4103 - Contrapuntal Techniques (2.0 cr)

Junior and Senior Recital (2 cr)
MU 3300 - Junior Recital (1.0 cr)
MU 4300 - Senior Recital (1.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

Band/Orchestral Instruments
Required credits to graduate with this degree: 120
Required credits within the major: 85

This emphasis prepares students for a career as a professional musician and for acceptance into a graduate degree program in music. The emphasis assists students in acquiring high quality performance artistry and provides students with advanced historical and theoretical knowledge of music.

Band or Orchestral Instruments Core (10 cr)
Take MU 3991 for 2 credits in one semester. MU 4601 must be repeated for a total of 2 credits.
MU 3705 - Instrumental Conducting I (1.0 cr)
MU 3706 - Instrumental Conducting II (1.0 cr)
MU 3991 - Independent Study (1.0 - 3.0 cr)

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MU 4101 - Instrumental Arranging (2.0 cr)
MU 4200 - Advanced Music History (2.0 cr)
MU 4601 - Applied Music Teaching (1.0 cr)

Piano Core (3 cr)

Take 3 or more course(s) totaling 3 or more credit(s) from the following:

- MU 1421 - Piano Class I (1.0 cr)
- MU 1422 - Piano Class II (1.0 cr)
- MU 1423 - Piano Class III (1.0 cr)

Applied Instruction Foundations - Lower Division (1000 level)

Take 2 credits the first semester and 3 credits each subsequent semester prior to passing MU 300 Advanced Standing Exam. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.

Take 4 or more course(s) totaling 11 or more credit(s) from the following:

- MU 1331 - Organ-Major (2.0 - 3.0 cr)
- MU 1351 - Violin - Major (2.0 - 3.0 cr)
- MU 1353 - Viola - Major (2.0 - 3.0 cr)
- MU 1355 - Cello - Major (2.0 - 3.0 cr)
- MU 1357 - Harp - Major (2.0 - 3.0 cr)
- MU 1359 - Bass - Major (2.0 - 3.0 cr)
- MU 1361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 1363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 1365 - Flute - Major (2.0 - 3.0 cr)
- MU 1367 - Oboe - Major (2.0 - 3.0 cr)
- MU 1369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 1371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 1373 - Trombone - Major (2.0 - 3.0 cr)
- MU 1375 - French Horn - Major (2.0 - 3.0 cr)
- MU 1377 - Tuba - Major (2.0 - 3.0 cr)
- MU 1379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 1381 - Percussion-Major (2.0 - 3.0 cr)
- MU 1391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 1395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Advanced Standing Exam

MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level)

Take 3 credits each semester, after successfully completing MU 300. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

- MU 4331 - Organ-Major (2.0 - 3.0 cr)
- MU 4351 - Violin - Major (2.0 - 3.0 cr)
- MU 4353 - Viola - Major (2.0 - 3.0 cr)
- MU 4355 - Cello - Major (2.0 - 3.0 cr)
- MU 4357 - Harp - Major (2.0 - 3.0 cr)
- MU 4359 - Bass - Major (2.0 - 3.0 cr)
- MU 4361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 4363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 4365 - Flute - Major (2.0 - 3.0 cr)
- MU 4367 - Oboe - Major (2.0 - 3.0 cr)
- MU 4369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 4371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 4373 - Trombone - Major (2.0 - 3.0 cr)
- MU 4375 - French Horn - Major (2.0 - 3.0 cr)
- MU 4377 - Tuba - Major (2.0 - 3.0 cr)
- MU 4379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 4381 - Percussion-Major (2.0 - 3.0 cr)
- MU 4391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 4395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Ensemble Foundations (16 cr)

Take 1 credit each semester. Participation in MU 1505/4505 Jazz Ensemble is strongly recommended in addition to the required ensembles.

Ensemble A

Fulfill this requirement by repeating or taking a combination of MU 1501, 1502, 1503, and 1504. Take 1 credit for 4 semesters.

Take 4 or more credit(s) from the following:

- MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
- MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
- MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
- MU 1504 - Chamber Orchestra [LE CAT, FINE ARTS] (1.0 cr)

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Ensemble B
Fulfill this requirement by repeating or taking a combination of MU 4501, 4502, 4503, or 4504. Take 1 credit for 4 semesters.
Take 4 or more credit(s) from the following:
•MU 4501 - Concert Band (1.0 cr)
•MU 4502 - Symphonic Wind Ensemble (1.0 cr)
•MU 4503 - Symphony Orchestra (1.0 cr)
•MU 4504 - Chamber Orchestra (1.0 cr)
Ensemble C
Fulfill this requirement by repeating or taking a combination of MU 1515 or 1541.
Take 4 or more credit(s) from the following:
•MU 1515 - Percussion Ensemble (1.0 cr)
•MU 1541 - Chamber Music (1.0 cr)
Ensemble D
Fulfill this requirement by repeating or taking a combination of MU 4515 or 4541.
Take 4 or more credit(s) from the following:
•MU 4515 - Percussion Ensemble (1.0 cr)
•MU 4541 - Chamber Music (1.0 cr)

Keyboard

Required credits to graduate with this degree: 120
Required credits within the major: 84

This emphasis prepares students for a career as a professional musician and for acceptance into graduate study in performance or accompanying and coaching. It assists students in acquiring high quality artistry as a performing keyboard musician both in solo and collaborative situations, and providing students with advanced historical and theoretical knowledge of diverse repertoire and styles. The emphasis also assists students in becoming effective piano teachers at all levels, ages, and group settings.

Keyboard Core (16 cr)
MU 3627 and MU 3628 must each be taken twice, for a total of 2 credits each. This is encouraged in consecutive Fall/Spring semesters.
MU 1424 - Piano Class IV (1.0 cr)
MU 3627 - Art of Accompanying: Vocal Music (1.0 cr)
MU 3628 - Art of Accompanying: Instrumental Music (1.0 cr)
MU 4200 - Advanced Music History (2.0 cr)
MU 4201 - Piano Literature (2.0 cr)
MU 4202 - Piano Literature II (2.0 cr)
MU 4621 - Piano Pedagogy and Practicum I (2.0 cr)
MU 4622 - Piano Pedagogy and Practicum II (2.0 cr)
MU 3703 - Choral Conducting (1.0 cr)
or MU 3705 - Instrumental Conducting I (1.0 cr)
Applied Instruction Foundations - Lower Division (1000 level)
Take 2 credits the first semester and 3 credits each subsequent semester prior to passing MU 300 Advanced Standing Exam. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 4 or more course(s) totaling 11 or more credit(s) from the following:
•MU 1321 - Piano-Major (2.0 - 3.0 cr)
Advanced Standing Exam
MU 300 - Advanced Standing Exam (0.0 cr)
Applied Instruction Foundations - Upper Division (4000 level)
Take 3 credits each semester, after completing MU 300. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•MU 4321 - Piano-Major (2.0 - 3.0 cr)
Ensemble Foundations (12 cr)
Take one course each semester.
Ensemble A
Fulfill this requirement by repeating MU 1516.
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
•MU 1516 - Piano Ensemble (1.0 cr)
Ensemble B
Fulfill this requirement by repeating MU 4516.
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
•MU 4516 - Piano Ensemble (1.0 cr)
Ensemble C
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
•MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
•MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)

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•MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
•MU 1504 - Chamber Orchestra [LE CAT, FINE ARTS] (1.0 cr)
•MU 1505 - Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
•MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)
•MU 1512 - Chamber Singers [LE CAT, FINE ARTS] (1.0 cr)
•MU 1513 - Vocal Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
•MU 1515 - Percussion Ensemble (1.0 cr)
•MU 3510 - Opera Studio [FINE ARTS] (1.0 cr)
•MU 4501 - Concert Band (1.0 cr)
•MU 4502 - Symphonic Wind Ensemble (1.0 cr)
•MU 4503 - Symphony Orchestra (1.0 cr)
•MU 4504 - Chamber Orchestra (1.0 cr)
•MU 4505 - Jazz Ensemble (1.0 cr)
•MU 4510 - Concert Chorale (1.0 cr)
•MU 4511 - University Singers (1.0 cr)
•MU 4512 - Chamber Singers (1.0 cr)
•MU 4513 - Vocal Jazz Ensemble (1.0 cr)
•MU 4515 - Percussion Ensemble (1.0 cr)
•MU 4541 - Chamber Music (1.0 cr)

Vocal

Required credits to graduate with this degree: 120
Required credits within the major: 93

This emphasis prepares students for careers as professional classical singers or for acceptance into graduate degree programs.

Vocal Core (13 cr)
MU 1411 - Diction: Italian and English (1.0 cr)
MU 1412 - Diction: German (1.0 cr)
MU 1413 - Diction: French (1.0 cr)
MU 1441 - Vocal Techniques (1.0 cr)
MU 3211 - Art Song Literature (2.0 cr)
MU 3212 - Opera Literature (2.0 cr)
MU 3703 - Choral Conducting (1.0 cr)
MU 4200 - Advanced Music History (2.0 cr)
MU 4600 - Vocal Pedagogy (1.0 cr)
MU 4601 - Applied Music Teaching (1.0 cr)

Piano Core (3 cr)
Take 3 or more course(s) totaling 3 or more credit(s) from the following:
•MU 1421 - Piano Class I (1.0 cr)
•MU 1422 - Piano Class II (1.0 cr)
•MU 1423 - Piano Class III (1.0 cr)

World Language Foundations (8 cr)
Take 2 or more course(s) totaling 8 or more credit(s) from the following:
•FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
•FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
•GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
•GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
•GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)

Applied Instruction Foundations - Lower Division (1000 level)
Take 2 credits the first semester and 3 credits each subsequent semester prior to passing MU 300 Advanced Standing Exam. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 4 or more course(s) totaling 11 or more credit(s) from the following:
•MU 1311 - Voice-Major (2.0 - 3.0 cr)

Advanced Standing Exam
MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 level)
Take 3 credits each semester, after successfully completing MU 300. MU 100 must be taken concurrently each semester with applied instruction in principal instrument.
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•MU 4311 - Voice-Major (2.0 - 3.0 cr)

Ensemble (13 cr)

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Take a minimum of one credit each semester.

Ensemble A

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
- MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)

Ensemble B

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 4510 - Concert Chorale (1.0 cr)
- MU 4511 - University Singers (1.0 cr)

Ensemble C

Take 1 or more course(s) totaling 1 or more credit(s) from the following:

- MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
- MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)
- MU 1512 - Chamber Singers [LE CAT, FINE ARTS] (1.0 cr)
- MU 1513 - Vocal Jazz Ensemble [LE CAT, LECD C, FINE ARTS] (1.0 cr)
- MU 4510 - Concert Chorale (1.0 cr)
- MU 4511 - University Singers (1.0 cr)
- MU 4512 - Chamber Singers (1.0 cr)
- MU 4513 - Vocal Jazz Ensemble (1.0 cr)

Ensemble D

Take 4 or more credits from the following:

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 3510 - Opera Studio [FINE ARTS] (1.0 cr)

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Duluth Campus

Philosophy B.A.

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 30 to 39
- Degree: Bachelor of Arts

This program familiarizes students with the broad range of foundational theories that arose in the history of philosophy and helps students develop problem-solving skills using critical thinking. Beginning courses provide a comprehensive introduction to the methods and procedures of analytical reasoning by examining issues concerning logic, the nature of knowledge and reality, the existence of freedom, and the character of right and wrong. Advanced courses focus on special historical periods (e.g., Greek philosophy, early modern philosophy) and specific problem areas (e.g., philosophy of psychology, medical ethics, philosophy of language).

Principles that emerge from the study of philosophy concern basic theories and concepts, and the nature of reasoning as it applies to all areas of investigation within the humanities, natural sciences, and social sciences. As a result, studying philosophy enhances all majors and minors.

Honors requirements: Candidates must be philosophy majors with a 3.30 GPA in the major. Students complete PHIL 5991 and write a substantial paper or significantly rewrite a paper submitted for another philosophy course. Students must notify the department head of their intent to participate in the honors program by the end of the first week of the semester of graduation and the paper must be approved by a faculty member at least 30 days before the end of the term. The paper is presented orally in a department colloquium with the approved manuscript submitted to the department head at least one week before presentation. Contact the department head for more information.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.

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Information current as of January 17, 2023

2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
The advanced writing requirement may be satisfied with one additional PHIL 3xxx course.
WRIT 31xx or PHIL 3xxx (3 cr)

Core (8 cr)
Students are advised to register for PHIL 3900 at least two terms before they apply for their degree.
PHIL 1001 - Introduction to Philosophy [LE CAT7, HUMANITIES] (3.0 cr)
PHIL 3900 - Colloquium for Majors (1.0 cr)
PHIL 4900 - Seminar in Philosophy (4.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

General
Required credits to graduate with this degree: 120
Required credits within the major: 30 - 32

This sub-plan emphasizes the history of philosophical thought and metaphysics and theory of knowledge.

General Core (4 cr)
PHIL 1018 - Logic [LE CAT2, LOGIC & QR] (4.0 cr)
Foundations in History of Philosophy (8 cr)
It is recommended that students take both PHIL 3301 and 3303.
Take one of the following courses:
PHIL 3301 - Greek Philosophy (4.0 cr)
or PHIL 3303 - The Birth of Modern Philosophy (4.0 cr)
Take one additional History of Philosophy course:
PHIL 3301 - Greek Philosophy (4.0 cr)
or PHIL 3303 - The Birth of Modern Philosophy (4.0 cr)
or PHIL 3319 - 19th Century Philosophy (4.0 cr)
or PHIL 3320 - 20th Century Philosophy (4.0 cr)
or PHIL 3421 - Eastern Philosophy (4.0 cr)
Electives (6-8 cr)
Alternative courses taken within the History of Philosophy Electives may apply here.
Take 2 or more course(s) from the following:
•AMIN 4410 - American Indian Philosophies [HUMANITIES, CDIVERSITY] (3.0 cr)
•PHIL 2001 - Existential Philosophy and the Arts [HUMANITIES] (3.0 cr)
•PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
•PHIL 2021 - Science and Pseudo-Science: Thinking about Weird Things [LE CAT8, HUMANITIES] (3.0 cr)
•PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
•PHIL 3195 - Special Topics: (Various Titles to be Assigned) (3.0 - 9.0 cr)
•PHIL 3222 - Medical Ethics (4.0 cr)
•PHIL 3231 - Law and Punishment (4.0 cr)
•PHIL 3242 - Values and Technology [LE CAT8, HUMANITIES] (3.0 cr)
•PHIL 3245 - Philosophy of Art (3.0 cr)
•PHIL 3252 - Philosophy of Science (3.0 cr)
•PHIL 3281 - Ethical Theory (4.0 cr)
•PHIL 3291 - Current Social Political Philosophy (4.0 cr)
•PHIL 3325 - Environmental Ethics [HUMANITIES, SUSTAIN] (4.0 cr)
•PHIL 3570 - Philosophy of Psychology (4.0 cr)
•PHIL 3575 - Philosophy and Cognitive Science (3.0 cr)

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•PHIL 3655 - Theory of Knowledge (4.0 cr)
•PHIL 2xxx-3xxx
•**Optional Experience**
Take 0 - 3 credit(s) from the following:
•PHIL 5991 - Independent Study (1.0 - 3.0 cr)
•PHIL 5997 - Intern Teaching Assistantship (2.0 cr)

Applied Ethics

Required credits to graduate with this degree: 120
Required credits within the major: 38 - 39

This subplan familiarizes students with major ethical theories and their applications in a number of fields and work situations. Beginning courses provide a framework for ethical thinking and decision making from a variety of theoretical orientations, along with introductory applications to social problems. Advanced courses apply this thinking to complex issues generated within specific fields such as medicine, technology, and the environment.

Principles that emerge from the study of applied ethics can complement a variety of majors and minors, as well as enhance students' moral education and theoretical literacy for handling ethical problems that may emerge in a variety of careers and leadership roles in law, politics, and service organizations.

Students choose upper division electives from other disciplines to shape the major to their specific interests and post-baccalaureate plans.

Applied Ethics Core (11 cr)
PHIL 1003 - Ethics and Society [LE CAT8, LEIP CAT08, HUMANITIES, CDIVERSITY] (3.0 cr)
PHIL 3281 - Ethical Theory (4.0 cr)
PHIL 3291 - Current Social Political Philosophy (4.0 cr)
Critical Thinking and Logic (4 cr)
PHIL 1008 - Critical Thinking [LE CAT2, LOGIC & QR] (4.0 cr)
or PHIL 1018 - Logic [LE CAT2, LOGIC & QR] (4.0 cr)
History of Philosophy (4 cr)
PHIL 3301 - Greek Philosophy (4.0 cr)
or PHIL 3303 - The Birth of Modern Philosophy (4.0 cr)
or PHIL 3421 - Eastern Philosophy (4.0 cr)
Foundations in Applied Ethics (7-8 cr)
Take 2 or more course(s) from the following:
•PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
•PHIL 3222 - Medical Ethics (4.0 cr)
•PHIL 3231 - Law and Punishment (4.0 cr)
•PHIL 3242 - Values and Technology [LE CAT8, HUMANITIES] (3.0 cr)
•PHIL 3325 - Environmental Ethics [HUMANITIES, SUSTAIN] (4.0 cr)

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Duluth Campus

Philosophy Minor

Geography & Philosophy

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 16

The philosophy minor acquaints students with major figures and problems in our philosophical heritage and helps them develop critical-thinking skills.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- PHIL 1001 - Introduction to Philosophy [LE CAT7, HUMANITIES] (3.0 cr)
- PHIL 1003 - Ethics and Society [LE CAT8, LEIP CAT08, HUMANITIES, CDIVERSITY] (3.0 cr)
- PHIL 1005 - Philosophy through Dialogue and Debate [COMM & LAN] (3.0 cr)
- PHIL 1007 - Philosophy and World Religions [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (3.0 cr)
- PHIL 1008 - Critical Thinking [LE CAT2, LOGIC & QR] (4.0 cr)
- PHIL 1018 - Logic [LE CAT2, LOGIC & QR] (4.0 cr)
- PHIL 1021 - Classical Mythology [LE CAT9, HUMANITIES] (3.0 cr)
- PHIL 1025 - Introduction to Cognitive Science [NAT SCI] (3.0 cr)
- PHIL 1xxx

Electives (10 cr)

Students take a minimum of 3 courses to reach a minimum of 10 credits. One course must be at the 3xxx level or higher for at least 3 credits.

2xxx-Level

Take 0 - 2 course(s) from the following:

- PHIL 2001 - Existential Philosophy and the Arts [HUMANITIES] (3.0 cr)
- PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
- PHIL 2021 - Science and Pseudo-Science: Thinking about Weird Things [LE CAT8, HUMANITIES] (3.0 cr)
- PHIL 2xxx

3xxx-Level and above

Take 1 - 3 course(s) from the following:

- AMIN 4410 - American Indian Philosophies [HUMANITIES, CDIVERSITY] (3.0 cr)
- PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
- PHIL 3195 - Special Topics: (Various Titles to be Assigned) (3.0 - 9.0 cr)
- PHIL 3222 - Medical Ethics (4.0 cr)
- PHIL 3231 - Law and Punishment (4.0 cr)
- PHIL 3242 - Values and Technology [LE CAT8, HUMANITIES] (3.0 cr)
- PHIL 3245 - Philosophy of Art (3.0 cr)
- PHIL 3252 - Philosophy of Science (3.0 cr)
- PHIL 3281 - Ethical Theory (4.0 cr)
- PHIL 3291 - Current Social Political Philosophy (4.0 cr)
- PHIL 3301 - Greek Philosophy (4.0 cr)
- PHIL 3303 - The Birth of Modern Philosophy (4.0 cr)
- PHIL 3319 - 19th Century Philosophy (4.0 cr)
- PHIL 3320 - 20th Century Philosophy (4.0 cr)
- PHIL 3325 - Environmental Ethics [HUMANITIES, SUSTAIN] (4.0 cr)
- PHIL 3421 - Eastern Philosophy (4.0 cr)
- PHIL 3570 - Philosophy of Psychology (4.0 cr)
- PHIL 3575 - Philosophy and Cognitive Science (3.0 cr)
- PHIL 3655 - Theory of Knowledge (4.0 cr)
- PHIL 3900 - Colloquium for Majors (1.0 cr)

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•PHIL 4900 - Seminar in Philosophy (4.0 cr)
•PHIL 3xxx-4xxx

Optional Experience

Take 0 - 3 credit(s) from the following:
•PHIL 5991 - Independent Study (1.0 - 3.0 cr)
•PHIL 5997 - Intern Teaching Assistantship (2.0 cr)

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Duluth Campus

Photography Minor

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 27

The photography minor provides experience with digital, film, and alternative photographic processes. Students learn the principles of design and composition and are introduced to theory and issues in visual communication and study the history of photography and visual communication.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (12 cr)

ART 1013 - 2-D Digital Design (3.0 cr)
ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
ART 2600 - Photography I (3.0 cr)
ARTH 2620 - History of Photography (3.0 cr)

Foundation (6 cr)

ART 4600 - Photography: Digital Portfolio (3.0 cr)
ART 4675 - Photography: The Photographic Book (3.0 cr)

Electives (9 cr)

Some courses can be repeated.

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- ART 3600 - Intermediate Concepts in Photography (3.0 cr)
- ART 3615 - Photography: Inventing with Light (3.0 cr)
- ART 4600 - Photography: Digital Portfolio (3.0 cr)
- ART 4650 - Alternative Processes Portfolio (3.0 cr)

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Duluth Campus

Political Science B.A.

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 35
- Degree: Bachelor of Arts

This program prepares students for careers in government and business, the study of law, and graduate study in political science, domestic and international public policy, and related fields. It offers general liberal education coursework, specialized coursework for students majoring in other disciplines, and a related field for graduate students.

Students have considerable flexibility in designing their major to ensure it meets personal and professional interests. Students should consult their faculty advisor to define the focus and coverage of their program and select courses in other disciplines, including second majors and minors. Students are encouraged to acquire collateral skills in areas such as statistics, computer applications, and foreign languages. Students interested in graduate study should begin planning in their junior year. Many programs expect proficiency in statistical analysis and/or a foreign language.

Honors Requirements: Departmental honors in political science will be automatically granted to any student who is a political science major graduating with a grade point average of 3.80 or higher in political science courses taken at UMD or accepted for transfer to UMD. The average will be calculated using only political science courses.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
2. At least 8 political science credits must be taken at UMD.
3. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

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Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

Take 1 course(s) totaling 3 or more credit(s) from the following:
WRIT 31xx - Adv Writing (3 cr)

Core (7 cr)

POL 1011 - American Government and Politics [LE CAT6, SOC SCI] (3.0 cr)
POL 4190 - Senior Seminar (4.0 cr)

Foundations (9 cr)

POL 2700 is the preferred course for methodology. Note: One attempt of POL 1800 is applicable towards the major. If the course is taken twice the additional credits will not apply to the major, but will apply to the overall degree.

Take 3 or more course(s) from the following:
- POL 1050 - International Relations [LE CAT, GLOBAL PER] (3.0 cr)
- POL 1500 - Introduction to Comparative Politics [LE CAT, GLOBAL PER] (3.0 cr)
- POL 1610 - Introduction to Political Theory [LE CAT, HUMANITIES] (3.0 cr)
- POL 1800 - Mock Trial (3.0 cr)
- POL 2700 - Methodology and Analysis [LOGIC & QR] (4.0 cr)
- POL 1xxx-2xxx

Electives (15 cr)

Students must take at least 5 courses across the following lists. Four courses must be at the POL 3xxx-4xxx level. Students have the option to complete this requirement by taking all courses at the POL 3xxx-4xxx level or in combination with the optional areas listed.

Take 4 or more course(s) from the following:
- POL 3001 - American Public Policy (3.0 cr)
- POL 3015 - State and Local Government (4.0 cr)
- POL 3025 - Popular Culture and Politics [HUMANITIES] (4.0 cr)
- POL 3040 - Women and Politics (3.0 cr)
- POL 3080 - Environment and Politics (3.0 cr)
- POL 3100 - Contemporary Issues in American Politics (3.0 cr)
- POL 3120 - Congress and the Presidency (4.0 cr)
- POL 3131 - Judicial Politics and Policy Making (3.0 cr)
- POL 3141 - Pol Parties & Polarization (3.0 cr)
- POL 3142 - Voting, Campaigning, and Elections (3.0 cr)
- POL 3143 - Political Psychology (3.0 cr)
- POL 3150 - American Constitutional Law I (3.0 cr)
- POL 3151 - American Constitutional Law II (3.0 cr)
- POL 3195 - Special Topics: (various titles to be assigned) (3.0 cr)
- POL 3311 - Public Opinion and Polling Methods (3.0 cr)
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3403 - American Foreign Policy (3.0 cr)
- POL 3420 - International Organization and Global Governance (3.0 cr)
- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3511 - Politics of South Asia (3.0 cr)
- POL 3515 - Theories of Comparative Politics (3.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- POL 3575 - Latin American Politics and Development (3.0 cr)
- POL 3580 - Central American Politics (3.0 cr)
- POL 3600 - Political Concepts (3.0 cr)
- POL 3610 - Political Economy: An Introduction (3.0 cr)
- POL 3652 - Modern Political Thought (4.0 cr)
- POL 4195 - Special Topics: (various titles to be assigned) (3.0 cr)

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•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
or INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3xxx-4xxx
•Optional Lower Division Elective
Take 0 - 1 course(s) from the following:
•POL 1xxx-2xxx
•Optional Experience (consent required)
Take 0 - 4 credit(s) from the following:
•POL 3097 - Government Internship (1.0 - 6.0 cr)
•POL 3197 - Nongovernmental Internship (1.0 - 6.0 cr)
•POL 4191 - Independent Study (1.0 - 4.0 cr)
•POL 4910 - Teaching Assistantship in Political Science (1.0 - 2.0 cr)
•Optional Complementary Elective
Take 0 - 1 course(s) from the following:
•AMIN 3206 - Federal Indian Policy [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 4230 - Introduction to Federal Indian Law [SOC SCI, CDIVERSITY] (3.0 cr)
•BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
•CRIM 3324 - Sociology of Criminal Law (3.0 cr)
•CRIM 3380 - Death Penalty (3.0 cr)
•ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
•ECON 4213 - Mathematical Economics (3.0 cr)
•ECON 3570 - Public Finance (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•INTS 4100 - Seminar in International Studies (4.0 cr)
•PHIL 3231 - Law and Punishment (4.0 cr)
•PHIL 3291 - Current Social Political Philosophy (4.0 cr)
•SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
•SOC 3156 - Qualitative Research Methods and Analysis (4.0 cr)
•WS 3100 - Feminist Thought [HUMANITIES, CDIVERSITY] (4.0 cr)
•WS 3600 - Ecofeminism: Theories and Sustainable Practices [SUSTAIN] (3.0 cr)

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Duluth Campus

Political Science Minor

History, Political Science & International Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

This minor is designed specifically to complement majors in related disciplines or more broadly develop the political awareness, background, and critical faculties requisite to responsible citizenship.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

At least 8 political science credits must be taken at UMD.

Lower Division (1000-2000 Level) Foundations (6 cr)

If students elect to take a methodology course, POL 2700 is preferred.
Take 2 or more course(s) from the following:

- POL 1011 - American Government and Politics [LE CAT6, SOC SCI] (3.0 cr)
- POL 1050 - International Relations [LE CAT, GLOBAL PER] (3.0 cr)
- POL 1500 - Introduction to Comparative Politics [LE CAT, GLOBAL PER] (3.0 cr)
- POL 1610 - Introduction to Political Theory [LE CAT, HUMANITIES] (3.0 cr)
- POL 1800 - Mock Trial (3.0 cr)
- POL 2700 - Methodology and Analysis [LOGIC & QR] (4.0 cr)
- POL 1xxx-2xxx

Electives (12 cr)

Take 3 or more course(s) from the following:

- POL 3001 - American Public Policy (3.0 cr)
- POL 3015 - State and Local Government (4.0 cr)
- POL 3025 - Popular Culture and Politics [HUMANITIES] (4.0 cr)
- POL 3040 - Women and Politics (3.0 cr)
- POL 3080 - Environment and Politics (3.0 cr)
- POL 3100 - Contemporary Issues in American Politics (3.0 cr)
- POL 3120 - Congress and the Presidency (4.0 cr)
- POL 3131 - Judicial Politics and Policy Making (3.0 cr)
- POL 3141 - Pol Parties & Polarization (3.0 cr)
- POL 3142 - Voting, Campaigning, and Elections (3.0 cr)
- POL 3143 - Political Psychology (3.0 cr)
- POL 3150 - American Constitutional Law I (3.0 cr)
- POL 3151 - American Constitutional Law II (3.0 cr)
- POL 3195 - Special Topics: (various titles to be assigned) (3.0 cr)
- POL 3311 - Public Opinion and Polling Methods (3.0 cr)
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3403 - American Foreign Policy (3.0 cr)
- POL 3420 - International Organization and Global Governance (3.0 cr)
- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3511 - Politics of South Asia (3.0 cr)
- POL 3515 - Theories of Comparative Politics (3.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- POL 3575 - Latin American Politics and Development (3.0 cr)
- POL 3580 - Central American Politics (3.0 cr)

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- POL 3600 - Political Concepts (3.0 cr)
- POL 3610 - Political Economy: An Introduction (3.0 cr)
- POL 3652 - Modern Political Thought (4.0 cr)
- POL 4190 - Senior Seminar (4.0 cr)
- POL 4195 - Special Topics: (various titles to be assigned) (3.0 cr)
- POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
  or INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- POL 3xxx-4xxx
- **Optional Experience (consent required)**
  Take 0 - 4 credit(s) from the following:
  - POL 3097 - Government Internship (1.0 - 6.0 cr)
  - POL 3197 - Nongovernmental Internship (1.0 - 6.0 cr)
  - POL 4191 - Independent Study (1.0 - 4.0 cr)
  - POL 4910 - Teaching Assistantship in Political Science (1.0 - 2.0 cr)

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Duluth Campus

Professional Writing Minor

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22

This minor develops writing, reading, and rhetorical expertise relevant to professional communication. Emphasizing the production and analysis of texts and practice in varied writing techniques, the minor also provides a foundation in the study of professional writing as a field of inquiry.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Students majoring in Writing Studies must complete a minor or second major in a field other than Professional Writing or Digital Writing, Literature and Design Minor.

Lower Division Core (1000-2000 level) (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- WRIT 1506 - Literacy, Technology and Society [LE CAT, HUMANITIES] (3.0 cr)
- WRIT 2506 - Theories of Writing Studies (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Upper Division Core (4000 level) (7 cr)

WRIT 4200 - Writing and Cultures (3.0 cr)
WRIT 4250 - New Media Writing (3.0 cr)
WRIT 4506 - Capstone Course: Senior Portfolio Preparation (1.0 cr)

Professional Writing Elective (3 cr)

(WRIT 1120 does not satisfy this requirement.)

Take 0 - 1 course(s) totaling 0 - 3 credit(s) from the following:

- WRIT 1006 - Journal and Memoir Writing [LE CAT] (3.0 cr)
- WRIT 2400 - Language of Advertising (3.0 cr)
- WRIT 2595 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- WRIT 4100 - Introduction to Grant Writing and Project Planning (3.0 cr)
- WRIT 4220 - Document Design and Graphics (3.0 cr)
- WRIT 4222 - Electronic Publication (4.0 cr)
- WRIT 4230 - Web Design and Digital Culture (3.0 cr)
- WRIT 4260 - Visual Narrative and Analytical Design (3.0 cr)
- WRIT 4300 - Research Methods for the Study of Writing (3.0 cr)
- WRIT 1xxx-4xxx
- **Alternate option (consent required)**

  Take 0 - 3 credit(s) from the following:

  - WRIT 4197 - Internship in Writing (1.0 - 3.0 cr)
  - WRIT 4591 - Independent Study (1.0 - 3.0 cr)

Elective (3 cr)

(WRIT 1120 does not satisfy this requirement.)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- COMM 1xxx-4xxx
- ENGL 1xxx-4xxx
- FIN 1xxx-4xxx
- JOUR 1xxx-4xxx
- LING 1xxx-4xxx

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•MIS 1xxx-4xxx
•TH 1xxx-4xxx
•WRIT 1xxx-4xxx

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Duluth Campus

Sociology B.A.

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 42
- Degree: Bachelor of Arts

Sociology focuses on the relationships between social structure and the dynamics of establishing, maintaining, and changing patterns of human social behavior. The program is built around a theoretical-methodological core with courses integrated to develop students' conceptual and research competence. These courses focus on understanding how our everyday lives and actions are influenced by broader social structures and processes. The major provides a background for careers in human services and business and preparation for related graduate and professional school study.

Honors requirements: The department honors program recognizes majors who demonstrate outstanding academic performance, provides special educational opportunities for such students, and encourages the development of specialty areas within the major. Honors students participate in independent research, working closely with a faculty member. Qualified majors apply to the honors program before the end of the second week of the first semester of their senior year. See the department for further details.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, or degree) is required with this major.
2. Global experience is a UMD goal for all students and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 or 3160 are recommended.
WRIT 31xx - Adv Writing (3 cr)

Lower Division Core (8 cr)
A grade of C or better is required in each course.
SOC 1101 - Introduction to Sociology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)

Upper Division Core (15 cr)
After successfully completing SOC 4587, a student must wait at least one semester before registering for SOC 4597. Students intern in a setting related to their career interests. Take SOC 4597 for at least 6 credits. (Students also majoring in psychology may request to substitute PSY 3020 for SOC 3155. See the department head for approval.)
SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
SOC 4111 - Sociological Theory (4.0 cr)
SOC 4587 - Internship Preparation (1.0 cr)
SOC 4597 - Internship (6.0 - 8.0 cr)

Inequality Course (3 cr)
Additional SOC inequality courses may apply as elective credit towards the major.
Take 1 or more course(s) from the following:
- CRIM 4323 - Women and Justice (3.0 cr)
- CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
- SOC 3330 - The U.S. Civil Rights Movement [SOC SCI, CDIVERSITY] (3.0 cr)
- SOC 3945 - Social Stratification (3.0 cr)
- SOC 4947 - Sociology of Gender (3.0 cr)
- SOC 4949 - Race and Ethnic Relations (3.0 cr)

Electives (12 cr)
Take 12 or more credits from the following:
Take 3 - 4 course(s) from the following:
- SOC 3210 - Sociology of Media (3.0 cr)
- SOC 3306 - Deviance (3.0 cr)
- SOC 3595 - Special Topics: (various titles to be assigned) (3.0 cr)
- SOC 3821 - Sociology of Community (3.0 cr)
- SOC 3831 - Organizations and Society (4.0 cr)
- SOC 3901 - Social Change and Social Policy (3.0 cr)
- SOC 4222 - Sociology of Space and Time (4.0 cr)
- SOC 4370 - Sociology of Mental Health and Illness (3.0 cr)
- SOC 4860 - Environmental Sociology [SUSTAIN] (3.0 cr)
- SOC 4925 - Sociology of Rape (3.0 cr)
- SOC 4935 - Peace Studies (3.0 cr)
- SOC 4981 - Social Movements, Protest and Change (4.0 cr)
- SOC 4982 - Political Sociology and the Global Economy (4.0 cr)
- SOC 4985 - Critical Animal Studies (4.0 cr)
- SOC 3701 - Social Psychology [SOC SCI] (3.0 cr)
  or PSY 3201 - Social Psychology (3.0 cr)
- **Optional Elective**
  Take 0 - 1 course(s) from the following:
  - SOC 1080 - Development of Social Selves [LE CAT8, SOC SCI] (3.0 cr)
  - SOC 1201 - Sociology of the Family [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
  - ANTH 3xxx-4xxx
  - WS 3xxx-4xxx
- **Optional Experience**
  Take 0 - 3 credit(s) from the following:
  - SOC 4991 - Independent Study in Sociology (1.0 - 3.0 cr)
  - SOC 4999 - Honors Project Sociology (1.0 - 4.0 cr)
  - SOC 4910 - Teaching Assistantship in Sociology (1.0 - 3.0 cr)

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Duluth Campus

Sociology Minor

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 14 to 15

This minor introduces students to the study of key social processes at the personal, societal, and global level. Students are allowed flexibility in exploring substantive courses relevant to their interests.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division Core (4 cr)

A grade of C or better is required in this course.

SOC 1101 - Introduction to Sociology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Inequality Course (3 cr)

Additional SOC inequality courses may apply as elective credit towards the minor.

Take 1 or more course(s) from the following:

- CRIM 4323 - Women and Justice (3.0 cr)
- CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
- SOC 3330 - The U.S. Civil Rights Movement [SOC SCI, CDIVERSITY] (3.0 cr)
- SOC 3945 - Social Stratification (3.0 cr)
- SOC 4947 - Sociology of Gender (3.0 cr)
- SOC 4949 - Race and Ethnic Relations (3.0 cr)

Electives (7-8 cr)

SOC 2155, 3155, 4587, 4597 cannot apply toward the sociology minor.

Take 0 - 1 course(s) from the following:

- SOC 1080 - Development of Social Selves [LE CAT8, SOC SCI] (3.0 cr)
- SOC 1201 - Sociology of the Family [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)

Take 1 - 2 course(s) from the following:

- SOC 3156 - Qualitative Research Methods and Analysis (4.0 cr)
- SOC 3210 - Sociology of Media (3.0 cr)
- SOC 3306 - Deviance (3.0 cr)
- SOC 3595 - Special Topics: (various titles to be assigned) (3.0 cr)
- SOC 3821 - Sociology of Community (3.0 cr)
- SOC 3831 - Organizations and Society (4.0 cr)
- SOC 3901 - Social Change and Social Policy (3.0 cr)
- SOC 4111 - Sociological Theory (4.0 cr)
- SOC 4222 - Sociology of Space and Time (4.0 cr)
- SOC 4370 - Sociology of Mental Health and Illness (3.0 cr)
- SOC 4860 - Environmental Sociology [SUSTAIN] (3.0 cr)
- SOC 4925 - Sociology of Rape (3.0 cr)
- SOC 4935 - Peace Studies (3.0 cr)
- SOC 4981 - Social Movements, Protest and Change (4.0 cr)
- SOC 4982 - Political Sociology and the Global Economy (4.0 cr)
- SOC 4985 - Critical Animal Studies (4.0 cr)

SOC 3701 - Social Psychology [SOC SCI] (3.0 cr)

or PSY 3201 - Social Psychology (3.0 cr)

Optional Experience

Take 0 - 3 credit(s) from the following:

- SOC 4991 - Independent Study in Sociology (1.0 - 3.0 cr)
- SOC 4999 - Honors Project Sociology (1.0 - 4.0 cr)
- SOC 4910 - Teaching Assistantship in Sociology (1.0 - 3.0 cr)

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Duluth Campus

Spanish Studies B.A.

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 47
- Degree: Bachelor of Arts

Spanish Studies consists of two different sub-plans: Language and Culture Studies or Latin America. The Language and Culture Studies sub-plan fosters the development of cross-cultural competency and broader world perspectives through the study of history, cultural production, and texts of inherently diverse Spanish-speaking communities and cultures. This major guides students to the acquisition of the Spanish language in order to carry out coursework in the study, analysis, and understanding of literary texts and cultural products from Latin America, Spain, and United States Latino communities. Students in this sub-plan gain proficiency in the Spanish language and essential skills, like critical analysis, empathy, and cultural awareness. Because this major requires a second field of study, this sub-plan prepares students for a wide variety of careers, graduate programs, and professional school programs. Graduates might go on to work in the STEM fields; for non-profit organizations, for the government, or in education; companies with international ties and who value bilingualism and inclusivity; among many other career possibilities.

Students interested in intensifying their study of Latin America are advised to consider the Latin America sub-plan. Students will apply their linguistic and interdisciplinary skills to a wide variety of local, regional, national, or international career choices. This sub-plan requires a study abroad or internship requirement, a requirement that gives students credit for an immersion in a Spanish-speaking community abroad or in a United States Latino community. If they choose a study abroad experience, students will cultivate the ability to articulate a keen understanding of the role of race, class, gender, sustainability, and human rights as they pertain to Spanish-speaking North America, Central America, South America, and the Caribbean. If they select an internship, students will put their Spanish language skills to use and acquire direct experience in a local, state, or private entity.

Honors requirements: Departmental honors will be awarded to students according to the following process: Students who achieve a 3.30 GPA in upper division language courses at UMD will be invited by program faculty to submit a portfolio of excellent work completed in Spanish past the language sequence and/or in the departments SPAN 2540 and SPAN 2550 for consideration by faculty in the program. The faculty then will decide if honors will be awarded, based on that portfolio.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is required with this major.
Note: Students pursuing both the Spanish Studies B.A. and the Teaching Spanish B.A.A. must satisfactorily complete 12 non-overlapping upper division credits of Spanish electives over and above the requirements for the B.A.A. to receive both degrees.

2. Global experience is a UMD goal for all students, and international study is encouraged. In-depth study of language and culture in a host country vastly improves language proficiency and intercultural competence. Talk with a faculty advisor in Spanish Studies to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

Recommended: WRIT 3100 - Advanced Writing: Language and Literature
WRIT 31xx - Adv Writing (3 cr)

Core (20 cr)

The core program in language skills (listening, speaking, reading, writing) is common to all majors and minors. Native and heritage speakers, as well as students with previous language study, may be exempt from some core requirements and should consult the department about placement. Students must earn a C or better grade in the Advanced Spanish language course before beginning upper division content courses that emphasize literature and culture.
SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Language and Culture Studies

Required credits to graduate with this degree: 120
Required credits within the major: 47

Electives (23 cr)

Students take 6 courses across the following elective lists. To enroll in these courses students must have earned a C or better in SPAN 2301, be currently enrolled, or have instructor consent. With advisor consent, some upper-division Spanish courses may be transferred and/or taken abroad. At least two SPAN courses (8 credits) must be taken through UMD or with advisor approval from a UMD affiliated study abroad program. (SPAN 3190 and 3290 are excluded from this course list.)
Take 4 - 6 course(s) from the following:
•SPAN 3020 - Advanced Spanish for Business (4.0 cr)
•SPAN 3025 - Advanced Spanish for Health Care: Communication, Culture, and Ethics (4.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3197 - Internship in Language, Culture and Business - Study Abroad [GLOBAL PER] (6.0 cr)
•SPAN 3297 - Internship in Language, Culture, Health and Science - Study Abroad [GLOBAL PER] (6.0 cr)
•SPAN 3894 - Language and Culture in Spain - Study Abroad [GLOBAL PER] (6.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4013 - Latin American Poetry and Drama [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4022 - Medieval and Golden Age Literature and Culture of Spain [HUMANITIES] (4.0 cr)

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•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•SPAN 4090 - Aspects of the Hispanic World [HUMANITIES] (4.0 cr)
•SPAN 4095 - Special Topics: (Various Titles to be Assigned) (4.0 cr)

•Optional Experience

Take 0 - 6 credit(s) from the following:
•SPAN 4091 - Independent Study (1.0 - 4.0 cr)
•SPAN 3097 - Internship (1.0 - 3.0 cr)

•Optional SPAN Electives (taught in English)

Students who take both courses cannot apply a course from the 'Optional Electives (taught in English)' area.
Take 0 - 2 course(s) from the following:
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)
•SPAN 2550 - Globalization and Sustainability in Latin America [SUSTAIN] (4.0 cr)

•Optional Electives (taught in English)

One of the following courses may apply to the 'Upper Division Electives'. With prior approval from an advisor, selected courses may be taken in another department or program if related to the major.
Take 0 - 1 course(s) from the following:
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ARTH 3110 - Art of the Ancient Americas (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•CUE 3001 - Foundations of Cultural Entrepreneurship I (3.0 cr)
•CUE 3002 - Foundations of Cultural Entrepreneurship II (3.0 cr)
•CUE 3101 - Introduction to Design Thinking and Conceptual Competencies (3.0 cr)
•CUE 4002 - Managing Cultural Organizations (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
•PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)
•PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)

Oral Proficiency Exam

This major requires an examination of language proficiency. Contact the department or your advisor for more information.
* Oral Proficiency Exam

Latin America

Required credits to graduate with this degree: 120
Required credits within the major: 47

Geo-Political Core (8 cr)

SPAN 2550 - Globalization and Sustainability in Latin America [SUSTAIN] (4.0 cr)
SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)

Study Abroad or Internship (3 cr)

A study abroad experience or internship (at least 3 cr) in Latin America or in a Latino community in the United States is required. Many UMD short-term study abroad programs are typically offered during the summer. Students may select from the list below or consult with a Latin America advisor for other options.
Take 1 or more course(s) from the following:
•HIST 3313 - Global Surf Culture - Study Abroad [GLOBAL PER] (4.0 cr)
•INTB 4231 - Peru's Food Revolution: The Links to Sustainability, Development and Branding [GLOBAL PER] (3.0 cr)
•SPAN 3097 - Internship (1.0 - 3.0 cr)
•SPAN 3890 - Language and Culture in Peru - Study Abroad [GLOBAL PER] (6.0 cr)

Electives (12 cr)

Other UMD courses that pertain to Latin America may be approved by a Latin America advisor. With advisor consent, some upper-division Spanish courses may be transferred and/or taken abroad. At least two SPAN courses (8 credits) must be taken through a UMD affiliated study abroad program. A course taken from the Study Abroad or Internship requirement does apply.
Take 4 or more course(s) from the following:
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ARTH 3110 - Art of the Ancient Americas (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)
•PHIL 2011 - Philosophy of Language [LE CAT3, SOC SCI] (3.0 cr)

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•PHIL 3025 - Philosophy of Race and Racism [CDIVERSITY] (4.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)
•SPAN 3020 - Advanced Spanish for Business (4.0 cr)
•SPAN 3025 - Advanced Spanish for Health Care: Communication, Culture, and Ethics (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4013 - Latin American Poetry and Drama [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)

Optional Experience

Take 0 - 4 credit(s) from the following:
•SPAN 4091 - Independent Study (1.0 - 4.0 cr)

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Duluth Campus

Spanish Studies Minor

World Languages & Cultures

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 31

Students who pursue this minor will complete or satisfy Spanish language through the advanced level in preparation for further coursework. The wide array of courses beyond the Advanced Spanish language course (SPAN 2301) fosters critical thinking in the target language, intercultural competency, knowledge of Spanish-speaking world cultures, and understanding of cultural production across time and space.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (20 cr)

The core program in language skills (listening, speaking, reading, writing) is common to all majors and minors. Native and heritage speakers, as well as students with previous language study may be exempt from some core requirements and should consult the department about placement. Students must earn a C or better grade in the Advanced Spanish language course before beginning upper division content courses that emphasize literature and culture.

SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Electives (11 cr)

Take at least 3 courses. To enroll in these courses, students must have earned a C or better in SPAN 2301, be currently enrolled, or have instructor consent. With advisor consent, some upper-division Spanish courses may be transferred and/or taken abroad. At least two SPAN courses (8 credits) must be taken through UMD or with advisor approval from a UMD affiliated study abroad program. (SPAN 3190 and 3290 are excluded from this course list.)

Take 2 - 3 course(s) from the following:

- SPAN 3020 - Advanced Spanish for Business (4.0 cr)
- SPAN 3025 - Advanced Spanish for Health Care: Communication, Culture, and Ethics (4.0 cr)
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3197 - Internship in Language, Culture and Business - Study Abroad [GLOBAL PER] (6.0 cr)
- SPAN 3297 - Internship in Language, Culture, Health and Science - Study Abroad [GLOBAL PER] (6.0 cr)
- SPAN 3894 - Language and Culture in Spain - Study Abroad [GLOBAL PER] (6.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4013 - Latin American Poetry and Drama [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
- SPAN 4022 - Medieval and Golden Age Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
- SPAN 4090 - Aspects of the Hispanic World [HUMANITIES] (4.0 cr)
- SPAN 4095 - Special Topics: (Various Titles to be Assigned) (4.0 cr)
- **Optional Experience**

  Take 0 - 6 credit(s) from the following:

  - SPAN 3097 - Internship (1.0 - 3.0 cr)
  - SPAN 4091 - Independent Study (1.0 - 4.0 cr)
- **Optional SPAN Electives (taught in English):**

  Take 0 - 1 course(s) from the following:

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•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)
•SPAN 2550 - Globalization and Sustainability in Latin America [SUSTAIN] (4.0 cr)

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Duluth Campus

Studio Art B.F.A.

UMD Art and Design, Dept of

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 77 to 80
- Degree: Bachelor of Fine Arts

Studio Art majors are encouraged to develop a strong personal creative direction in one or more of the studio areas housed within the department. Exploration and experimentation across a range of mediums is possible in an environment that fosters a cross-disciplined approach to form and image making. Traditional studio practices share equal footing with new and emerging technologies in an effort to best prepare the studio major for the field. Theoretical, historical, and conceptual foundations are provided through offerings in art history and seminars.

Students must select an emphasis in general studio, digital art and photography, painting, drawing, and printmaking, or sculpture and ceramics. Students produce a body of work for the Senior Presentation/Exhibition under the mentorship of faculty in their emphasis area. Work proposed for a solo or group senior exhibition will be reviewed and approved by studio faculty in their area.

Department Honors Requirements: Candidates, nominated by the Department of Art & Design faculty, receive honors for distinguished achievement demonstrated in part by either the senior student exhibition, the senior presentation, or project.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

New students are admitted to pre-major status before admission to this major. To qualify for this program, pre-studio art students must pass a portfolio review; the portfolio review is scheduled in both fall and spring semesters. Students must have a minimum 2.00 GPA overall and in art and art history courses.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Core (18 cr)

Group A

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

- ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
- ART 1011 - 2-D Design (3.0 cr)
- ART 1012 - 3-D Design (3.0 cr)
- ART 1013 - 2-D Digital Design (3.0 cr)

Group B

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
- ARTH 1304 - History of World Art II [LE CAT, HUMANITIES] (3.0 cr)

Art History Foundations (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
- ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)

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Portfolio Review (0 cr)
At least two courses from Group A, one course from Group B, and the Art History Foundations course (and a 2.0 GPA overall and in art and art history courses) are required prior to enrolling in Portfolio Review. Remaining Core courses can be completed after the Portfolio Review.
ART 902 - Studio Art Portfolio Review (0.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required withr this major.
2. Emphasis in general studio, digital art and photography, painting, drawing, and printmaking, or sculpture and ceramics.
3. Attendance at two Visual Culture Lecture Series per semester (fall and spring).
4. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Advanced Writing (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
•WRIT 4230 - Web Design and Digital Culture (3.0 cr)
•WRIT 4250 - New Media Writing (3.0 cr)

Visual Culture Lecture Series
Attend two visual lecture events each fall and spring semesters.
Take 8 or more course(s) from the following:
•Visual Lecture (2 events)

Capstone (7 cr)
Seniors prepare and present a solo or group exhibition in the Tweed Museum of Art while enrolled in ART 4899.
Take 3 or more course(s) totaling 7 or more credit(s) from the following:
•ART 4812 - Senior Seminar (3.0 cr)
•ART 4813 - Senior Seminar II: Studio Practice (3.0 cr)
•ART 4899 - Senior Presentation/Exhibition (1.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Digital Art and Photography

Required credits to graduate with this degree: 120
Required credits within the major: 77

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Digital Art and Photography is for students seeking a focused course of study in contemporary digital art and in traditional and digital photography.

Digital Art and Photography Core (12 cr)
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
Digital Art and Photography Foundations (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 2100 - Painting I (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
•ART 2301 - Printmaking I: Litho, Screen (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
Digital Art and Photography Electives (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2018 - Digital Arts: Interactive Media (3.0 cr)
•ART 2907 - Typography I (3.0 cr)
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4091 - Individual Study in Electronic Arts (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4650 - Alternative Processes Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4691 - Individual Study in Photography (1.0 - 3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)
Art History Core (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2620 - History of Photography (3.0 cr)
Art History Elective (3 cr)
Take 3 or more credit(s) from the following:
•ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
•ARTH 2901 - History of Graphic Design (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•TH 2851 - Film History (3.0 cr)

General Studio

Required credits to graduate with this degree: 120
Required credits within the major: 80

General Studio is for students seeking a broad yet intensive course of study in traditional studio art and contemporary digital art discipline.

General Studio Core (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 3700 - Drawing II (3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
Introductory Studio Electives (18 cr)
Take 6 or more course(s) totaling 18 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2018 - Digital Arts: Interactive Media (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)

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•ART 2100 - Painting I (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
or ART 2301 - Printmaking I: Litho, Screen (3.0 cr)

Advanced Studio Electives (12 cr)

Courses taken to fulfill other major requirements may not be used to fulfill this requirement.
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)
•ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)
•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 3500 - Jewelry and Metals II (3.0 cr)
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 3700 - Drawing II (3.0 cr)
•ART 3715 - Figure Drawing (3.0 cr)
•ART 3809 - Art in Elementary Education Methods (3.0 cr)
•ART 3812 - Nordic Art & Design in Sweden and Denmark [GLOBAL PER] (3.0 cr)
•ART 3814 - Digital Media in Art Education (3.0 cr)
•ART 3815 - Art in Secondary Education (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4091 - Individual Study in Electronic Arts (1.0 - 3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4191 - Individual Study in Painting (1.0 - 3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4291 - Individual Study in Sculpture (1.0 - 3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4391 - Individual Study in Printmaking (1.0 - 3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4491 - Individual Study in Ceramics (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4650 - Alternative Processes Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4691 - Individual Study in Photography (1.0 - 3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
•ART 4791 - Individual Study in Drawing (1.0 - 3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)
•ART 4897 - Visual Culture Internship (1.0 - 9.0 cr)

Art Electives (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 1001 - Art Today [LE CAT, FINE ARTS] (3.0 cr)
•ART 1002 - Introduction to Art [LE CAT, FINE ARTS] (3.0 cr)
•ART 1003 - Introduction to Design [LE CAT, FINE ARTS] (3.0 cr)
•ART 1004 - Sustainable Visual Culture Practices [SUSTAIN] (3.0 cr)
•ART 1009 - Fundamentals of Drawing [LE CAT, FINE ARTS] (3.0 cr)
•ART 1105 - Fundamentals of Painting [FINE ARTS] (3.0 cr)
•ART 1305 - Social Multiples: Availability and Circulation [FINE ARTS] (3.0 cr)
•ART 1306 - Fundamentals of Screenprinting [FINE ARTS] (3.0 cr)
•ART 1405 - Fundamentals of Ceramics I [LE CAT, FINE ARTS] (3.0 cr)
•ART 1605 - Fundamentals of Photography [LE CAT, FINE ARTS] (3.0 cr)
•ART 1814 - Creating Across Cultures [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2018 - Digital Arts: Interactive Media (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2040 - Digital Filmmaking: Visual Narratives (3.0 cr)
•ART 2100 - Painting I (3.0 cr)

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•ART 2200 - Sculpture I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
•ART 2301 - Printmaking I: Litho, Screen (3.0 cr)
•ART 2303 - Printmaking I: Screenprinting (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
•ART 2810 - Art in Elementary Education [LE CAT, FINE ARTS] (3.0 cr)
•ART 2905 - Design Technology I (3.0 cr)
•ART 2906 - Design Technology II (3.0 cr)
•ART 2907 - Typography I (3.0 cr)
•ART 2911 - Graphic Design I (3.0 cr)
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)
•ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)
•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 3500 - Jewelry and Metals II (3.0 cr)
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 3715 - Figure Drawing (3.0 cr)
•ART 3809 - Art in Elementary Education Methods (3.0 cr)
•ART 3812 - Nordic Art & Design in Sweden and Denmark [GLOBAL PER] (3.0 cr)
•ART 3814 - Digital Media in Art Education (3.0 cr)
•ART 3815 - Art in Secondary Education (3.0 cr)
•ART 3906 - Emerging Media Design (3.0 cr)
•ART 3922 - Graphic Design II (3.0 cr)
•ART 3933 - Graphic Design III (3.0 cr)
•ART 3937 - Typography II (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4091 - Individual Study in Electronic Arts (1.0 - 3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4191 - Individual Study in Painting (1.0 - 3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4291 - Individual Study in Sculpture (1.0 - 3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4391 - Individual Study in Printmaking (1.0 - 3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4491 - Individual Study in Ceramics (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4650 - Alternative Processes Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4691 - Individual Study in Photography (1.0 - 3.0 cr)
•ART 4791 - Individual Study in Drawing (1.0 - 3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)
•ART 4897 - Visual Culture Internship (1.0 - 9.0 cr)
•ART 4908 - Interactive Design I (3.0 cr)
•ART 4909 - Interactive Design II (3.0 cr)
•ART 4922 - Senior Design Studio I (3.0 cr)
•ART 4933 - Senior Design Studio II (3.0 cr)
•ART 4944 - Graphic Design IV (3.0 cr)
•ART 4955 - Graphic Design V (3.0 cr)
•ART 4991 - Independent Study in Graphic Design (1.0 - 3.0 cr)
•ART 1xxx-4xxx

Art History Core (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)

Art History Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 1303 - History of World Art I [LE CAT, HUMANITIES, GLOBAL PER] (3.0 cr)
•ARTH 1305 - History of World Art III [HUMANITIES, GLOBAL PER] (3.0 cr)

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•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
•ARTH 2620 - History of Photography (3.0 cr)
•ARTH 2892 - Independent International Study [GLOBAL PER] (1.0 - 3.0 cr)
•ARTH 2901 - History of Graphic Design (3.0 cr)
•ARTH 3110 - Art of the Ancient Americas (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
•ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
•ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
•ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
•ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
•ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
•ARTH 4330 - Methods and Theories of Art History and Visual Studies (3.0 cr)
•ARTH 4999 - Senior Paper Art History (1.0 cr)
•ARTH 1xxx-4xxx

Painting, Drawing, and Printmaking

Required credits to graduate with this degree: 120
Required credits within the major: 77

Painting, Drawing, and Printmaking is for students seeking a focused course of study in the two dimensional disciplines of painting, drawing, and printmaking.

Painting, Drawing, and Printmaking Core (21 cr)
Take 7 or more course(s) totaling 21 or more credit(s) from the following:
•ART 2100 - Painting I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
•ART 2301 - Printmaking I: Litho, Screen (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3700 - Drawing II (3.0 cr)
•ART 4100 - Painting III (3.0 cr)
Painting, Drawing, and Printmaking Foundations (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ART 3715 - Figure Drawing (3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
Introductory Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)
Advanced Studio Electives (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 3100 - Painting II (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3700 - Drawing II (3.0 cr)
•ART 3715 - Figure Drawing (3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4191 - Individual Study in Painting (1.0 - 3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4391 - Individual Study in Printmaking (1.0 - 3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
•ART 4791 - Individual Study in Drawing (1.0 - 3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)
Art History Core (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
Art History Elective (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:

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•ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 2620 - History of Photography (3.0 cr)
•ARTH 2892 - Independent International Study [GLOBAL PER] (1.0 - 3.0 cr)
•ARTH 2901 - History of Graphic Design (3.0 cr)
•ARTH 3110 - Art of the Ancient Americas (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
•ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
•ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
•ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
•ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
•ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
•ARTH 4330 - Methods and Theories of Art History and Visual Studies (3.0 cr)
•ARTH 4999 - Senior Paper Art History (1.0 cr)
•ARTH 2xxx-4xxx

Sculpture and Ceramics

Required credits to graduate with this degree: 120
Required credits within the major: 77

Sculpture and Ceramics is for students seeking a focused course of study in the three-dimensional disciplines of sculpture and ceramics. Traditional and contemporary digital course work are included in the emphasis.

Sculpture and Ceramics Core (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•ART 2014 - 3-D Modeling and Animation (3.0 cr)
•ART 2200 - Sculpture I (3.0 cr)
•ART 2400 - Ceramics I (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)

Introductory Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 2016 - Digital Arts: Mixed-Media Studio (3.0 cr)
•ART 2030 - Digital Arts: Time-based Media (3.0 cr)
•ART 2100 - Painting I (3.0 cr)
•ART 2300 - Printmaking I: Intaglio, Relief (3.0 cr)
•ART 2301 - Printmaking I: Litho, Screen (3.0 cr)
•ART 2500 - Jewelry and Metals I (3.0 cr)
•ART 2600 - Photography I (3.0 cr)

Advanced Studio Electives (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4291 - Individual Study in Sculpture (1.0 - 3.0 cr)
•ART 4491 - Individual Study in Ceramics (1.0 - 3.0 cr)

Art Electives (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ART 1814 - Creating Across Cultures [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
•ART 3040 - Digital Filmmaking: Experimental Techniques (3.0 cr)
•ART 3100 - Painting II (3.0 cr)
•ART 3200 - Sculpture II (3.0 cr)
•ART 3214 - Sculpture II: Robotics and Physical Computing [FINE ARTS] (3.0 cr)
•ART 3300 - Printmaking II (3.0 cr)
•ART 3305 - Sustainability Studio: Theory and Practice [FINE ARTS, SUSTAIN] (3.0 cr)
•ART 3400 - Ceramics II (3.0 cr)
•ART 3405 - Fundamentals of Ceramics II [FINE ARTS] (3.0 cr)
•ART 3425 - Ceramics II Wheel Throwing (3.0 cr)
•ART 3500 - Jewelry and Metals II (3.0 cr)
•ART 3600 - Intermediate Concepts in Photography (3.0 cr)
•ART 3615 - Photography: Inventing with Light (3.0 cr)
•ART 3700 - Drawing II (3.0 cr)

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•ART 3715 - Figure Drawing (3.0 cr)
•ART 3809 - Art in Elementary Education Methods (3.0 cr)
•ART 3812 - Nordic Art & Design in Sweden and Denmark [GLOBAL PER] (3.0 cr)
•ART 3814 - Digital Media in Art Education (3.0 cr)
•ART 3815 - Art in Secondary Education (3.0 cr)
•ART 4016 - Digital Arts: Advanced Projects (3.0 cr)
•ART 4040 - Digital Filmmaking: Advanced Projects (3.0 cr)
•ART 4091 - Individual Study in Electronic Arts (1.0 - 3.0 cr)
•ART 4100 - Painting III (3.0 cr)
•ART 4191 - Individual Study in Painting (1.0 - 3.0 cr)
•ART 4200 - Sculpture III (3.0 cr)
•ART 4291 - Individual Study in Sculpture (1.0 - 3.0 cr)
•ART 4300 - Printmaking III (3.0 cr)
•ART 4391 - Individual Study in Printmaking (1.0 - 3.0 cr)
•ART 4400 - Ceramics III (1.0 - 3.0 cr)
•ART 4491 - Individual Study in Ceramics (1.0 - 3.0 cr)
•ART 4600 - Photography: Digital Portfolio (3.0 cr)
•ART 4650 - Alternative Processes Portfolio (3.0 cr)
•ART 4675 - Photography: The Photographic Book (3.0 cr)
•ART 4691 - Individual Study in Photography (1.0 - 3.0 cr)
•ART 4700 - Drawing III (3.0 cr)
•ART 4791 - Individual Study in Drawing (1.0 - 3.0 cr)
•ART 4793 - Intermedia Studio (1.0 - 3.0 cr)
•ART 4897 - Visual Culture Internship (1.0 - 9.0 cr)

Art History Core (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2390 - US Art and Visual Culture in the 20th Century [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)

Art History Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•ARTH 2300 - The City as a Work of Art [LE CAT, HUMANITIES] (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 2620 - History of Photography (3.0 cr)
•ARTH 2892 - Independent International Study [GLOBAL PER] (1.0 - 3.0 cr)
•ARTH 2901 - History of Graphic Design (3.0 cr)
•ARTH 3110 - Art of the Ancient Americas (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•ARTH 3150 - Contemporary Global Exhibition (3.0 cr)
•ARTH 3330 - Renaissance Art & Architecture: Europe 1300 - 1550 [HUMANITIES] (3.0 cr)
•ARTH 3331 - European Architecture and its Legacy [HUMANITIES] (3.0 cr)
•ARTH 3340 - Baroque and Rococo: European Art & Architecture 1550 - 1750 (3.0 cr)
•ARTH 3360 - Art and Social Change in Europe, Russia, and the United States (3.0 cr)
•ARTH 3361 - Being and Becoming Modern: European Art 1855 - 1955 (3.0 cr)
•ARTH 3370 - Dreamworld and Catastrophe: Art and Visual Culture in the Cold War (3.0 cr)
•ARTH 4330 - Methods and Theories of Art History and Visual Studies (3.0 cr)
•ARTH 4999 - Senior Paper Art History (1.0 cr)
•ARTH 2xxx-4xxx

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Duluth Campus

Theatre B.A.

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 49
- Degree: Bachelor of Arts

This degree offers broad, liberal arts study in theatre arts complemented by courses from across the University curriculum. Required courses in the major give students a strong core of theatre knowledge and experience. Students are urged to broaden their study by selecting a minor or second major in literature, culture, language, the social sciences, or the arts as appropriate to their career goals and in consultation with their academic advisor.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (either a minor, another major or dual degree) is required.
2. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.
3. Seek out advising each term with assigned advisor throughout college career to ensure they are on track for program completion.
4. Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies. Failure to abide will result in consequences potentially up to and including removal from the degree program and the university.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)

or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)

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or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Core (18 cr)
TH 1031 - Introduction to Theatrical Design (3.0 cr)
TH 1041 - Introduction to Technical Theatre (3.0 cr)
TH 1801 - Elements of Theatre (3.0 cr)
TH 2801 - Play Analysis: Dramatic Theory and Theatre Research (3.0 cr)
TH 4801 - History of the Theatre I [HUMANITIES] (3.0 cr)
TH 4802 - History of the Theatre II (3.0 cr)

Foundations (6 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- TH 1111 - Introduction to Acting [LE CAT, FINE ARTS] (3.0 cr)
- TH 1112 - Acting I (3.0 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- TH 2841 - The Theatre Experience (3.0 cr)
- TH 4841 - Creative Collaboration (3.0 cr)

Theatre Electives (12 cr)
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
- TH 1071 - Musical Theatre History [LE CAT, HUMANITIES] (3.0 cr)
- TH 1116 - Audition Techniques I (2.0 cr)
- TH 1118 - Voice and Movement for the Actor (3.0 cr)
- TH 1301 - Stagecraft (3.0 cr)
- TH 1351 - Stage Rendering Techniques (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1451 - Stage Makeup (3.0 cr)
- TH 1551 - Sound Design (3.0 cr)
- TH 1601 - Stage Management (3.0 cr)
- TH 2400 - Survey of the History of Costume (3.0 cr)
- TH 2841 - The Theatre Experience (3.0 cr)
- TH 3112 - Acting IV: Improvisation (3.0 cr)
- TH 3201 - Stage Direction (3.0 cr)
- TH 3218 - Acting V: Physical Theatre (2.0 cr)
- TH 3301 - Stagecraft II (3.0 cr)
- TH 3331 - Scenic Design I (3.0 cr)
- TH 3341 - Properties Construction (3.0 cr)
- TH 3371 - Scene Painting (3.0 cr)
- TH 3441 - Costume Design I (3.0 cr)
- TH 3501 - Advanced Digital Technology for the Theatre (3.0 cr)
- TH 3871 - Playwriting [LE CAT, FINE ARTS] (3.0 cr)
- TH 3995 - Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
- TH 4841 - Creative Collaboration (3.0 cr)

Practicum Core (7 cr)
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)

Practicum Elective (2 cr)
Take 1 or more course(s) totaling 2 or more credit(s) from the following:
- TH 1199 - Performance Practicum I [LE CAT] (1.0 cr)
- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)
- TH 2399 - Production Practicum II (1.0 cr)
- TH 3399 - Production Practicum III (2.0 cr)

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Duluth Campus

Theatre B.F.A.

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 76 to 88
- Degree: Bachelor of Fine Arts

The Department of Theatre, housed in the Marshall Performing Arts Center, has three objectives: to teach, produce, and sponsor theatre. The department provides academic and professional training in the arts of the theatre: acting, singing, directing, playwriting, critical evaluation, dance, scenic design, lighting design, sound, costume design, properties, stage management, theatre history and theory, and theatre management, as well as a broad liberal arts study.

The co-curricular producing arm of the department, UMD Theatre, provides practical experience for University students while enhancing the cultural life of the University and the communities it serves. Auditions for all theatre productions are open to any student currently enrolled at UMD. Productions range from classical to contemporary, comedy to tragedy, and musical theatre to experimental. Modern, jazz, tap, and classical dance are offered in academics, as well as in the production season.

The department sponsors performances and residencies by a variety of theatre artists. Recent visitors have included world-class performing artists, directors, choreographers, designers, and dance companies.

Department Honors Requirements: Honors are awarded to graduating theatre majors for exceptional achievement. Candidates, nominated by the Department of Theatre faculty, receive honors for distinguished contribution in acting, musical theatre, design and technology, stage management, general theatre involvement, and leadership.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

In addition to being admitted to UMD through the standard Admissions process, applicants interested in UMD's Theatre B.F.A. program must complete an in-person audition or portfolio review with UMD Theatre faculty. Please see the Department of Theatre's Prospective Theatre Students web page for complete details about audition/interview dates and preparatory requirements.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Students are expected to make satisfactory academic progress each semester, including grades of at least C- or better in all courses required in the major.
3. Demonstrate acceptable performance, including dispositions and skills, in all aspects of class and production work. Progress towards and attainment of proficiency is assessed by department faculty throughout the sequenced courses and productions, through Juries conducted in the spring semester for Design and Production students, and through season audition work for Acting and Musical Theatre students.
4. Seek out advising each term with their academic advisor throughout their college career to ensure they are on track for program completion.
5. Acting and Musical Theatre students are required to participate in all Mainstage season auditions and to accept roles as cast in Mainstage season productions.
6. Design and Production students are required to participate in the Mainstage Season and accept design assignments as agreed upon through the Production Assignment process.
7. Students who do not make satisfactory progress (as defined in the Department Policy stated in the Theatre Student Handbook and encompassing academic performance, artistic growth and behavioral integrity) and/or do not remain in good standing with all university policies, may jeopardize their status in the B.F.A. program, and be subject to review and/or removal from this degree program.
8. Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies. Failure to abide will result in consequences potentially up to and including removal from the degree program and the university.
9. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Theatre Core (18 cr)

TH 1031 - Introduction to Theatrical Design (3.0 cr)
TH 1041 - Introduction to Technical Theatre (3.0 cr)
TH 1801 - Elements of Theatre (3.0 cr)
TH 2801 - Play Analysis: Dramatic Theory and Theatre Research (3.0 cr)
TH 4801 - History of the Theatre I [HUMANITIES] (3.0 cr)
TH 4802 - History of the Theatre II (3.0 cr)

Acting Foundations (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- TH 1111 - Introduction to Acting [LE CAT, FINE ARTS] (3.0 cr)
- TH 1112 - Acting I (3.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Acting

Required credits to graduate with this degree: 120
Required credits within the major: 76

The Acting emphasis is for students seeking professional training or an intensive course of study and practical application in the area of acting.

Acting Core - Lower Division (1xxx-2xxx Level) (22 cr)

Take 8 or more course(s) totaling 22 or more credit(s) from the following:

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•DN 1151 - Modern Dance Technique I [LE CAT, FINE ARTS] (2.0 cr)
•TH 1116 - Audition Techniques I (2.0 cr)
•TH 1118 - Voice and Movement for the Actor (3.0 cr)
•TH 1451 - Stage Makeup (3.0 cr)
•TH 2112 - Acting II: American Realism (3.0 cr)
•TH 2113 - Acting III: Shakespeare (3.0 cr)
•TH 2118 - Speech for the Actor (3.0 cr)
•TH 2119 - Stage Accents (3.0 cr)

Acting Core - Upper Division (3xxx-4xxx Level) (18 cr)
Take 8 or more course(s) totaling 18 or more credit(s) from the following:
•TH 3112 - Acting IV: Improvisation (3.0 cr)
•TH 3118 - Voice Release (1.0 cr)
•TH 3151 - Stage Combat/Circus (3.0 cr)
•TH 3218 - Acting V: Physical Theatre (2.0 cr)
•TH 4112 - Acting VI: Scene Study (3.0 cr)
•TH 4113 - Acting VII: Period Styles (2.0 cr)
•TH 4116 - Audition Techniques II (1.0 cr)
•TH 4171 - Acting VIII: Acting for the Camera (3.0 cr)

Practicum Core (7 cr)
Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)

Practicum Foundations (4 cr)
Students may fulfill this requirement by repeating or taking a combination of TH 1199, 1399, 1499, 1599, 1699, or 3199.
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
•TH 1199 - Performance Practicum I [LE CAT] (1.0 cr)
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)
•TH 3199 - Performance Practicum II (2.0 cr)

Composite

Required credits to graduate with this degree: 120
Required credits within the major: 76

The Composite emphasis is for students seeking professional training or an intensive course of study with a composite emphasis.

Composite Core (2 cr)
Take 1 or more course(s) totaling 2 or more credit(s) from the following:
•TH 3699 - Production Management (2.0 cr)

Theatre Electives (21 cr)
Theatre courses that support a theatre emphasis unavailable within the other emphases and approved by a faculty adviser and the Theatre faculty. At least 10 credits must be in at the 3xxx or 4xxx level.
Take 21 or more credit(s) from the following:
•Composite TH course

Electives (18 cr)
Courses outside the department that clearly support this emphasis and are approved by a faculty advisor and Theatre faculty.
Take 18 or more credit(s) from the following:
•Composite elective (non-dept)

Practicum Core (7 cr)
Students must enroll in a TH practicum each semester except when enrolled in TH 3699.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)

Practicum Foundations (3 cr)
Students may fulfill this requirement by repeating or taking a combination of TH 1199, 1399, 1499, 1599, 1699, or 3199.
Take 3 or more course(s) totaling 3 or more credit(s) from the following:
•TH 1199 - Performance Practicum I [LE CAT] (1.0 cr)
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)

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•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)
•TH 3199 - Performance Practicum II (2.0 cr)

Costume Design

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Costume Design emphasis is for students seeking professional training or an intensive course of study and practical application in the area of costume design.

Design and Tech Core (23 cr)
Take 8 or more course(s) totaling 23 or more credit(s) from the following:
•TH 1301 - Stagecraft (3.0 cr)
•TH 1351 - Stage Rendering Techniques (3.0 cr)
•TH 1401 - Costume Construction I (3.0 cr)
•TH 1501 - Introduction to Lighting and Sound (3.0 cr)
•TH 3331 - Scenic Design I (3.0 cr)
•TH 3441 - Costume Design I (3.0 cr)
•TH 4351 - Portfolio Preparation and Presentation (3.0 cr)
•TH 4399 - Theatre: Special Projects (2.0 cr)
Costume Design Core (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•ART 1010 - Drawing I [FINE ARTS] (3.0 cr)
•TH 1451 - Stage Makeup (3.0 cr)
•TH 2400 - Survey of the History of Costume (3.0 cr)
•TH 4441 - Costume Design II (3.0 cr)
•TH 2431 - Costume Crafts (3.0 cr)
or TH 3401 - Costume Construction II (3.0 cr)
Costume Design Elective (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•TH 4331 - Scenic Design II (3.0 cr)
•TH 4501 - Advanced Stage Lighting (3.0 cr)
Practicum Core (7 cr)
Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)
Production Practicum Core (6 cr)
Students must repeat TH 2399 for 2 credits and TH 3399 for 4 credits.
Take 2 or more course(s) totaling 2 or more credit(s) from the following:
•TH 2399 - Production Practicum II (1.0 cr)
Take 2 or more course(s) totaling 4 or more credit(s) from the following:
•TH 3399 - Production Practicum III (2.0 cr)

Design and Production

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Design and Production emphasis is for students seeking professional training or an intensive course of study and practical application in the area of design and production.

Design and Tech Core (23 cr)
Take 8 or more course(s) totaling 23 or more credit(s) from the following:
•TH 1301 - Stagecraft (3.0 cr)
•TH 1351 - Stage Rendering Techniques (3.0 cr)
•TH 1401 - Costume Construction I (3.0 cr)
•TH 1501 - Introduction to Lighting and Sound (3.0 cr)
•TH 3331 - Scenic Design I (3.0 cr)
•TH 3441 - Costume Design I (3.0 cr)
•TH 4351 - Portfolio Preparation and Presentation (3.0 cr)
•TH 4399 - Theatre: Special Projects (2.0 cr)
Design and Production Electives (18 cr)
Take 4 or more course(s) totaling 12 or more credit(s) from the following:

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- TH 1451 - Stage Makeup (3.0 cr)
- TH 1551 - Sound Design (3.0 cr)
- TH 1601 - Stage Management (3.0 cr)
- TH 2400 - Survey of the History of Costume (3.0 cr)
- TH 3341 - Properties Construction (3.0 cr)
- TH 3351 - Theatrical Drafting (3.0 cr)
- TH 3352 - Stage Rendering Techniques II (3.0 cr)
- TH 3355 - Computer-Aided Theatrical Design (3.0 cr)
- TH 3371 - Scene Painting (3.0 cr)
- TH 3375 - Mechanical Design for Stage (3.0 cr)
- TH 3401 - Costume Construction II (3.0 cr)
- TH 3501 - Advanced Digital Technology for the Theatre (3.0 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- TH 4331 - Scenic Design II (3.0 cr)
- TH 4441 - Costume Design II (3.0 cr)
- TH 4501 - Advanced Stage Lighting (3.0 cr)

Practicums (7 cr)

Students must enroll in a TH practicum each semester.

Take 4 or more course(s) totaling 7 or more credit(s) from the following:

- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)

Production Practicum Core (6 cr)

Students must repeat TH 2399 for 2 credits and TH 3399 for 4 credits.

Take 2 or more course(s) totaling 2 or more credit(s) from the following:

- TH 2399 - Production Practicum II (1.0 cr)

Take 2 or more course(s) totaling 4 or more credit(s) from the following:

- TH 3399 - Production Practicum III (2.0 cr)

Lighting Design

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Lighting Design emphasis is for students seeking professional training or an intensive course of study and practical application in the area of lighting design.

Design and Tech Core (23 cr)

Take 8 or more course(s) totaling 23 or more credit(s) from the following:

- TH 1301 - Stagecraft (3.0 cr)
- TH 1351 - Stage Rendering Techniques (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1501 - Introduction to Lighting and Sound (3.0 cr)
- TH 3331 - Scenic Design I (3.0 cr)
- TH 3441 - Costume Design I (3.0 cr)
- TH 4351 - Portfolio Preparation and Presentation (3.0 cr)
- TH 4399 - Theatre: Special Projects (2.0 cr)

Lighting Design Core (15 cr)

Take 5 or more course(s) totaling 15 or more credit(s) from the following:

- TH 1551 - Sound Design (3.0 cr)
- TH 3351 - Theatrical Drafting (3.0 cr)
- TH 3355 - Computer-Aided Theatrical Design (3.0 cr)
- TH 3501 - Advanced Digital Technology for the Theatre (3.0 cr)
- TH 4501 - Advanced Stage Lighting (3.0 cr)

Lighting Design Electives (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- TH 4331 - Scenic Design II (3.0 cr)
- TH 4441 - Costume Design II (3.0 cr)

Practicums (7 cr)

Students must enroll in a TH practicum each semester.

Take 4 or more course(s) totaling 7 or more credit(s) from the following:

- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)

Production Practicum Core (6 cr)

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Students must repeat TH 2399 for 2 credits and TH 3399 for 4 credits.
Take 2 or more course(s) totaling 2 or more credit(s) from the following:
- TH 2399 - Production Practicum II (1.0 cr)

Take 2 or more course(s) totaling 4 or more credit(s) from the following:
- TH 3399 - Production Practicum III (2.0 cr)

Musical Theatre

Required credits to graduate with this degree: 120
Required credits within the major: 88

The Musical Theatre emphasis is for students seeking professional training or an intensive course of study and practical application in the area of musical theatre.

Dance Core (14 cr)

Take 7 or more course(s) totaling 14 or more credit(s) from the following:
- DN 2111 - Jazz Dance Techniques II [FINE ARTS] (2.0 cr)
- DN 2131 - Ballet Technique II [FINE ARTS] (2.0 cr)
- DN 3211 - Jazz Dance Technique III (2.0 cr)
- DN 3221 - Tap Dance Technique II (2.0 cr)
- DN 3231 - Ballet Technique III (2.0 cr)
- DN 3241 - Social Dance for the Stage (1.0 cr)
- DN 4116 - Musical Theatre Audition Techniques (3.0 cr)

Musical Theatre Core - Lower Division (1xxx-2xxx Level) (29 cr)

Take 12 or more course(s) totaling 29 or more credit(s) from the following:
- MU 1322 - Piano-Non Major (1.0 cr)
- TH 1071 - Musical Theatre History [LE CAT, HUMANITIES] (3.0 cr)
- TH 1114 - Music Theory and Sight Singing for the Musical Theatre Performer (3.0 cr)
- TH 1115 - Musical Theatre Singing I (1.0 cr)
- TH 1116 - Audition Techniques I (2.0 cr)
- TH 1118 - Voice and Movement for the Actor (3.0 cr)
- TH 1451 - Stage Makeup (3.0 cr)
- TH 2112 - Acting II: American Realism (3.0 cr)
- TH 2113 - Acting III: Shakespeare (3.0 cr)
- TH 2114 - Acting: Musical Theatre (3.0 cr)
- TH 2115 - Musical Theatre Singing II: The Modes (1.0 cr)
- TH 2118 - Speech for the Actor (3.0 cr)

Musical Theatre Core - Upper Division (3xxx-4xxx Level) (9 cr)

Take 6 or more course(s) totaling 9 or more credit(s) from the following:
- TH 3112 - Acting IV: Improvisation (3.0 cr)
- TH 3114 - Musical Theatre Repertoire (1.0 cr)
- TH 3115 - Musical Theatre Singing III (1.0 cr)
- TH 4113 - Acting VII: Period Styles (2.0 cr)
- TH 4115 - Musical Theatre Singing IV: Transition Into the Profession (1.0 cr)
- TH 4116 - Audition Techniques II (1.0 cr)

Practicum Core (7 cr)

Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)

Production Foundations (4 cr)

Students may fulfill this requirement by repeating or taking a combination of TH 1199, 1399, 1499, 1599, 1699, or 3199.
Take 4 or more course(s) totaling 4 or more credit(s) from the following:
- TH 1199 - Performance Practicum I [LE CAT] (1.0 cr)
- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)
- TH 3199 - Performance Practicum II (2.0 cr)

Scene Design

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Scene Design emphasis is for students seeking professional training or an intensive course of study and practical application in the

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area of scene design.

Design and Tech Core (23 cr)
Take 8 or more course(s) totaling 23 or more credit(s) from the following:
- TH 1301 - Stagecraft (3.0 cr)
- TH 1351 - Stage Rendering Techniques (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1501 - Introduction to Lighting and Sound (3.0 cr)
- TH 3331 - Scenic Design I (3.0 cr)
- TH 3441 - Costume Design I (3.0 cr)
- TH 4351 - Portfolio Preparation and Presentation (3.0 cr)
- TH 4399 - Theatre: Special Projects (2.0 cr)

Scene Design Core (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
- TH 3351 - Theatrical Drafting (3.0 cr)
- TH 3352 - Stage Rendering Techniques II (3.0 cr)
- TH 3355 - Computer-Aided Theatrical Design (3.0 cr)
- TH 3371 - Scene Painting (3.0 cr)
- TH 4331 - Scenic Design II (3.0 cr)

Scene Design Elective (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
- TH 4441 - Costume Design II (3.0 cr)
- TH 4501 - Advanced Stage Lighting (3.0 cr)

Practicum Core (7 cr)
Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
- TH 1399 - Scenery and Properties Practicum (2.0 cr)
- TH 1499 - Costume Practicum (2.0 cr)
- TH 1599 - Lighting/Sound Practicum (1.0 cr)
- TH 1699 - Running Crew Practicum (2.0 cr)

Production Practicum Core (6 cr)
Students must repeat TH 2399 for 2 credits and TH 3399 for 4 credits.
Take 2 or more course(s) totaling 2 or more credit(s) from the following:
- TH 2399 - Production Practicum II (1.0 cr)

Take 2 or more course(s) totaling 4 or more credit(s) from the following:
- TH 3399 - Production Practicum III (2.0 cr)

Stage Management

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Stage Management emphasis is for students seeking professional training or an intensive course of study and practical application in the area of stage management.

Stage Management Core (21 cr)
Take 7 or more course(s) totaling 21 or more credit(s) from the following:
- COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
- HLTH 1700 - First Responder (3.0 cr)
- TH 1301 - Stagecraft (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1501 - Introduction to Lighting and Sound (3.0 cr)
- TH 1601 - Stage Management (3.0 cr)
- TH 4351 - Portfolio Preparation and Presentation (3.0 cr)

Stage Management Electives (18 cr)
Take 6 or more course(s) totaling 18 or more credit(s) from the following:
- COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
- COMM 3116 - Professional Communication (3.0 cr)
- COMM 3210 - Group Communication (3.0 cr)
- COMM 3215 - Conflict Management (3.0 cr)
- HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
- TH 1451 - Stage Makeup (3.0 cr)
- TH 1551 - Sound Design (3.0 cr)
- TH 3331 - Scenic Design I (3.0 cr)
- TH 3351 - Theatrical Drafting (3.0 cr)
- TH 3371 - Scene Painting (3.0 cr)
- TH 3871 - Playwriting [LE CAT, FINE ARTS] (3.0 cr)

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•TH 5997 - Internship in Professional Theatre (1.0 - 12.0 cr)

Practicums (7 cr)

Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)

Production Practicum Core (8 cr)

Students must repeat TH 3399 for 4 credits and TH 3699 for 4 credits.
Take 2 or more course(s) totaling 4 or more credit(s) from the following:
•TH 3399 - Production Practicum III (2.0 cr)
Take 2 or more course(s) totaling 4 or more credit(s) from the following:
•TH 3699 - Production Management (2.0 cr)

Technical Theatre

Required credits to graduate with this degree: 120
Required credits within the major: 79

The Technical Theatre emphasis is for students seeking professional training or an intensive course of study and practical application in the area of technical theatre.

Design and Tech Core (23 cr)

Take 8 or more course(s) totaling 23 or more credit(s) from the following:
•TH 1301 - Stagecraft (3.0 cr)
•TH 1351 - Stage Rendering Techniques (3.0 cr)
•TH 1401 - Costume Construction I (3.0 cr)
•TH 1501 - Introduction to Lighting and Sound (3.0 cr)
•TH 3331 - Scenic Design I (3.0 cr)
•TH 3441 - Costume Design I (3.0 cr)
•TH 4351 - Portfolio Preparation and Presentation (3.0 cr)
•TH 4399 - Theatre: Special Projects (2.0 cr)

Technical Theatre Core (15 cr)

Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•PHYS 1011 - Conceptual Physics [LE CAT, NAT SCI] (3.0 cr)
•TH 3351 - Theatrical Drafting (3.0 cr)
•TH 3355 - Computer-Aided Theatrical Design (3.0 cr)
•TH 3375 - Mechanical Design for Stage (3.0 cr)
•TH 3501 - Advanced Digital Technology for the Theatre (3.0 cr)

Technical Theatre Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•TH 4331 - Scenic Design II (3.0 cr)
•TH 4441 - Costume Design II (3.0 cr)
•TH 4501 - Advanced Stage Lighting (3.0 cr)

Practicum Core (7 cr)

Students must enroll in a TH practicum each semester.
Take 4 or more course(s) totaling 7 or more credit(s) from the following:
•TH 1399 - Scenery and Properties Practicum (2.0 cr)
•TH 1499 - Costume Practicum (2.0 cr)
•TH 1599 - Lighting/Sound Practicum (1.0 cr)
•TH 1699 - Running Crew Practicum (2.0 cr)

Production Practicum Core (6 cr)

Students must repeat TH 2399 for 2 credits and TH 3399 for 4 credits.
Take 2 or more course(s) totaling 2 or more credit(s) from the following:
•TH 2399 - Production Practicum II (1.0 cr)
Take 2 or more course(s) totaling 4 or more credit(s) from the following:
•TH 3399 - Production Practicum III (2.0 cr)

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Duluth Campus

Theatre Design and Production Certificate

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 22

One-year certificate program in technical theatre offering courses in theatre design, production, and technology.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Core (16 cr)

TH 1031 - Introduction to Theatrical Design (3.0 cr)
TH 1041 - Introduction to Technical Theatre (3.0 cr)
TH 1399 - Scenery and Properties Practicum (2.0 cr)
TH 1451 - Stage Makeup (3.0 cr)
TH 1499 - Costume Practicum (2.0 cr)
TH 1599 - Lighting/Sound Practicum (1.0 cr)
TH 1699 - Running Crew Practicum (2.0 cr)

Electives (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- TH 1301 - Stagecraft (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1551 - Sound Design (3.0 cr)
- TH 1601 - Stage Management (3.0 cr)
- TH 2451 - Hair and Wig Styling Techniques for the Theatre (3.0 cr)
- TH 3301 - Stagecraft II (3.0 cr)
- TH 3331 - Scenic Design I (3.0 cr)

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- TH 3341 - Properties Construction (3.0 cr)
- TH 3401 - Costume Construction II (3.0 cr)
- TH 3441 - Costume Design I (3.0 cr)
- TH 3501 - Advanced Digital Technology for the Theatre (3.0 cr)
- TH 4501 - Advanced Stage Lighting (3.0 cr)

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Duluth Campus

Theatre Minor

Theatre

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 23

The theatre minor is for students who want to pursue an interest in theatre that will complement their major program.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Students interested in this minor are advised to connect with a faculty adviser from the Department of Theatre to develop a sound schedule for taking courses to complete the minor in less than four years. Students are advised to note prerequisites and to take courses in proper sequence.

Core (17 cr)

TH 1001 - Introduction to Theatre Arts [LE CAT, FINE ARTS] (3.0 cr)
TH 1031 - Introduction to Theatrical Design (3.0 cr)
TH 1041 - Introduction to Technical Theatre (3.0 cr)
TH 1111 - Introduction to Acting [LE CAT, FINE ARTS] (3.0 cr)
TH 1399 - Scenery and Properties Practicum (2.0 cr)
TH 1499 - Costume Practicum (2.0 cr)
TH 1599 - Lighting/Sound Practicum (1.0 cr)

Lower Division Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- TH 1301 - Stagecraft (3.0 cr)
- TH 1351 - Stage Rendering Techniques (3.0 cr)
- TH 1401 - Costume Construction I (3.0 cr)
- TH 1451 - Stage Makeup (3.0 cr)
- TH 1551 - Sound Design (3.0 cr)
- TH 1601 - Stage Management (3.0 cr)
- TH 2400 - Survey of the History of Costume (3.0 cr)
- TH 2801 - Play Analysis: Dramatic Theory and Theatre Research (3.0 cr)

Upper Division Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- TH 3201 - Stage Direction (3.0 cr)
- TH 4841 - Creative Collaboration (3.0 cr)

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Duluth Campus

Theory and Composition B.Mus.

Music

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 89
- Degree: Bachelor of Music

The B.Mus. in theory and composition is for students pursuing programs of intensive study to prepare for professional careers in music. The program assists students to acquire compositional and analytical skills to best express their musical ideas and provides students with advanced knowledge of the materials of contemporary and historical music and a theoretical understanding of their construction.

Department honors requirements: Candidates, nominated by the Department of Music faculty, receive honors for distinguished achievement in musical performance, composition, or exceptional ability and accomplishment as a music educator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must pass a performance audition to be accepted into any music degree program. At the time of the audition, students must also complete diagnostic examinations in theory/aural/keyboard skills and an interview with the department head or an appointed designee. Any student who receives provisional acceptance into a degree program must pass a review (usually at the end of the first semester) to receive full acceptance. That review includes recommendations of major instructors and successful completion of an applied jury.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Courses with grades less than C- will not count toward the major.
3. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some degree requirements through study abroad.

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Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)

Recital Hour (0 cr)
MU 100 must be taken concurrently each semester with the applied instruction in principal instrument.
Take 8 or more course(s) from the following:
•MU 100 - Recital Hour (0.0 cr)

Music Core (22 cr)
Take 10 or more course(s) totaling 22 or more credit(s) from the following:
•MU 1111 - Tonal Harmony I (3.0 cr)
•MU 1112 - Ear-Training and Sight-Singing I (1.0 cr)
•MU 1121 - Tonal Harmony II [LOGIC & QR] (3.0 cr)
•MU 1122 - Ear-Training II (1.0 cr)
•MU 2111 - Tonal Harmony III (3.0 cr)
•MU 2112 - Ear-Training III (1.0 cr)
•MU 2121 - Tonal Harmony IV (3.0 cr)
•MU 2122 - Ear-Training, Sight Singing and Improvisation (1.0 cr)
•MU 3201 - Music History I (3.0 cr)
•MU 3202 - Music History II (3.0 cr)

Theory and Composition Core (20 cr)
Register for 3 credits of MU 4991. Register for 2 credits of MU 4997.
Take 10 or more course(s) totaling 20 or more credit(s) from the following:
•MU 2110 - Jazz Theory (2.0 cr)
•MU 3101 - Form and Analysis (2.0 cr)
•MU 3705 - Instrumental Conducting I (1.0 cr)
•MU 3805 - Jazz Writing I (2.0 cr)
•MU 4101 - Instrumental Arranging (2.0 cr)
•MU 4103 - Contrapuntal Techniques (2.0 cr)
•MU 4200 - Advanced Music History (2.0 cr)
•MU 4807 - Music Industry (2.0 cr)
•MU 4991 - Independent Study (1.0 - 3.0 cr)
•MU 4997 - Internship in Music (1.0 - 2.0 cr)

Foundations (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•MU 1005 - Jazz Studies [LE CAT, LECD C, FINE ARTS, CDIVERSITY] (3.0 cr)
•MU 2001 - Ethnic and Folk Music of the World [LE CAT, FINE ARTS] (3.0 cr)
•MU 2005 - African Roots of American Music [LE CAT, LECD C] (3.0 cr)

Composition Core (12 cr)
Register for each course twice. This will result in 4 credits per course.
Take 6 or more course(s) totaling 12 or more credit(s) from the following:
•MU 2105 - Composition I (2.0 cr)
•MU 3105 - Composition II (2.0 cr)
•MU 4105 - Composition III (2.0 cr)

Piano Core (3 cr)
Take 3 or more course(s) totaling 3 or more credit(s) from the following:
•MU 1322 - Piano-Non Major (1.0 cr)
•MU 1421 - Piano Class I (1.0 cr)
•MU 1422 - Piano Class II (1.0 cr)

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Applied Instruction Foundations - Lower Division (1000 Level) (8 cr)

One course is taken for four semesters. MU 100 must be taken concurrently each semester with the applied principal instrument course. Take these courses prior to passing MU 300.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 1311 - Voice-Major (2.0 - 3.0 cr)
- MU 1321 - Piano-Major (2.0 - 3.0 cr)
- MU 1325 - Jazz Piano-Major (2.0 - 3.0 cr)
- MU 1331 - Organ-Major (2.0 - 3.0 cr)
- MU 1351 - Violin - Major (2.0 - 3.0 cr)
- MU 1353 - Viola - Major (2.0 - 3.0 cr)
- MU 1355 - Cello - Major (2.0 - 3.0 cr)
- MU 1357 - Harp - Major (2.0 - 3.0 cr)
- MU 1359 - Bass - Major (2.0 - 3.0 cr)
- MU 1361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 1363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 1365 - Flute - Major (2.0 - 3.0 cr)
- MU 1367 - Oboe - Major (2.0 - 3.0 cr)
- MU 1369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 1371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 1373 - Trombone - Major (2.0 - 3.0 cr)
- MU 1375 - French Horn - Major (2.0 - 3.0 cr)
- MU 1377 - Tuba - Major (2.0 - 3.0 cr)
- MU 1379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 1381 - Percussion-Major (2.0 - 3.0 cr)
- MU 1391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 1395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Advanced Standing Exam

MU 300 - Advanced Standing Exam (0.0 cr)

Applied Instruction Foundations - Upper Division (4000 Level) (8 cr)

One course is taken for four semesters. MU 100 must be taken concurrently each semester with the applied principal instrument course. Take these courses after passing MU 300.

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- MU 4311 - Voice-Major (2.0 - 3.0 cr)
- MU 4321 - Piano-Major (2.0 - 3.0 cr)
- MU 4325 - Jazz Piano-Major (2.0 - 3.0 cr)
- MU 4331 - Organ-Major (2.0 - 3.0 cr)
- MU 4351 - Violin - Major (2.0 - 3.0 cr)
- MU 4353 - Viola - Major (2.0 - 3.0 cr)
- MU 4355 - Cello - Major (2.0 - 3.0 cr)
- MU 4357 - Harp - Major (2.0 - 3.0 cr)
- MU 4359 - Bass - Major (2.0 - 3.0 cr)
- MU 4361 - Clarinet - Major (2.0 - 3.0 cr)
- MU 4363 - Saxophone - Major (2.0 - 3.0 cr)
- MU 4365 - Flute - Major (2.0 - 3.0 cr)
- MU 4367 - Oboe - Major (2.0 - 3.0 cr)
- MU 4369 - Bassoon - Major (2.0 - 3.0 cr)
- MU 4371 - Trumpet - Major (2.0 - 3.0 cr)
- MU 4373 - Trombone - Major (2.0 - 3.0 cr)
- MU 4375 - French Horn - Major (2.0 - 3.0 cr)
- MU 4377 - Tuba - Major (2.0 - 3.0 cr)
- MU 4379 - Euphonium - Major (2.0 - 3.0 cr)
- MU 4381 - Percussion-Major (2.0 - 3.0 cr)
- MU 4391 - Classical Guitar-Major (2.0 - 3.0 cr)
- MU 4395 - Jazz Guitar-Major (2.0 - 3.0 cr)

Ensemble Requirements (8 cr)

Only one course is taken every semester for 8 semesters.

Lower Division Ensembles

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 1501 - Concert Band [LE CAT, FINE ARTS] (1.0 cr)
- MU 1502 - Symphonic Wind Ensemble [LE CAT, FINE ARTS] (1.0 cr)
- MU 1503 - Symphony Orchestra [LE CAT, FINE ARTS] (1.0 cr)
- MU 1510 - Concert Chorale [LE CAT, FINE ARTS] (1.0 cr)
- MU 1511 - University Singers [LE CAT, FINE ARTS] (1.0 cr)

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Upper Division Ensembles

Take 4 or more course(s) totaling 4 or more credit(s) from the following:

- MU 4501 - Concert Band (1.0 cr)
- MU 4502 - Symphonic Wind Ensemble (1.0 cr)
- MU 4503 - Symphony Orchestra (1.0 cr)
- MU 4510 - Concert Chorale (1.0 cr)
- MU 4511 - University Singers (1.0 cr)

Senior Recital (1 cr)

MU 4300 - Senior Recital (1.0 cr)

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Duluth Campus

Tribal Administration & Governance B.A.

American Indian Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 50 to 51
- Degree: Bachelor of Arts

The major is designed to prepare students to work for tribes and governmental and non-governmental entities that work closely with tribes. Students may select from two tracks: American Indian studies OR business administration certificate. The core requirements for the major include courses focused on tribal sovereignty, tribal governance, and federal Indian law and policy. The curriculum is based on studying the interrelationships between federal and tribal governments and the methods used by Native Nations to administer programs. Students will learn the history of federal-tribal-state relations; learn the roles of tribal leaders and administrators; and learn the laws, polices, and issues that impact tribal governments.

The major is flexible to accommodate a variety of student needs. All required courses for the major are offered online. Students may either transfer to UMD with an AA degree or the Minnesota Transfer Curriculum and complete the required courses for the major completely online in two years OR students who are beginning their undergraduate studies may come to UMD and take courses to fulfill the UMD liberal education program requirements while taking the online courses.

Students who graduate with a BA in tribal administration and governance will:

Demonstrate the ability to summarize, compare, and contrast tribal governance practices, constitutions, and statutes.
Demonstrate an understanding of settler policies and legal principles concerning Indian nations as well as settler governmental relationships with tribal governments.
Formulate effective approaches to strategic, project, and operations management in tribal contexts.
Demonstrate capacity to apply the fundamentals of relevant business practices for tribal administration.
Demonstrate capacity to summarize, analyze, synthesize, and apply the leadership qualities required of tribal administrators.

Program Delivery

This program is available:

- completely online (all program coursework can be completed online)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Students may declare this major at any time but once they begin the major they should take the TAG classes offered each term (with the exception of internship which should be taken their last term).

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx - Adv Writing (3 cr)

Core (31 cr)

TAG 2801 - Introduction to Tribal Administration and Governance (3.0 cr)
TAG 2820 - Foundations of Indigenous Leadership (3.0 cr)
TAG 3206 - Federal Indian Policy [SOC SCI, CDIVERSITY] (3.0 cr)
TAG 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
TAG 3810 - Fundamentals of Tribal Strategic Management (3.0 cr)
TAG 3820 - Fundamentals of Tribal Project Management (3.0 cr)
TAG 3997 - Internship in American Indian Studies (4.0 cr)
TAG 4230 - Introduction to Federal Indian Law [SOC SCI, CDIVERSITY] (3.0 cr)
TAG 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
TAG 4840 - Current Issues and Opportunities in Tribal Administration and Governance (3.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

American Indian Studies

American Indian Studies Core (6 cr)

AMIN 3830 - Fundamentals of Tribal Operations Management (3.0 cr)
AMIN 4810 - Business Processes in Tribal Administration (3.0 cr)

Electives (9 cr)

Take 9 additional credits of AMIN courses, 6 of which must be at 3xxx or above. Or relevant courses by Department Head approval.
Take 3 or more course(s) from the following:

Lower Division (Level 1xxx-2xxx)

Take 0 - 1 course(s) from the following:
- AMIN 1xxx-2xxx
- **Upper Division (Level 3xxx-4xxx)**

  Take 2 or more course(s) from the following:
  - AMIN 3xxx-4xxx

Business Administration Certificate

Students will have completed the requirements to receive a Certificate in Business Administration from the Labovitz School of Business and Economics (LSBE). To apply for the certificate, complete the online application: z.umn.edu/umdcert.

Certificate of Business Administration (16 cr)

These courses are provided in an online format and can be taken in any order. See the Course Schedule for variable start dates of courses (1st half, 2nd half or full-term). Up to two of the following courses may be substituted with equivalent classroom classes.

BUS 2100 - Fundamentals of Accounting (2.0 cr)
BUS 2200 - Fundamentals of Economics (2.0 cr)
BUS 2300 - Fundamentals of Operations Management (2.0 cr)
BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
BUS 2500 - Fundamentals of Applied Statistics (2.0 cr)
BUS 2600 - Fundamentals of Financial Management (2.0 cr)
BUS 2700 - Fundamentals of Marketing (2.0 cr)
BUS 2800 - Fundamentals of Human Resource Management (2.0 cr)

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Duluth Campus

Women, Gender and Sexuality Studies B.A.

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 39
- Degree: Bachelor of Arts

This program is an interdisciplinary field that includes the study of: 1) the experiences, conditions, and social realities of women of different races, ethnicities, nationalities, religions, classes, abilities, and sexual orientations in a global context; 2) the ways in which gender distinctions and the construction and intersection of gender, sexuality, race, and class have affected human lives, and 3) feminist scholarship.

Academically, the program seeks to provide students with a solid background in knowledge about gender, sexuality, race, class, and international issues; feminist analysis; critical thinking; and oral and written communication; and actively engage students in the generation of new knowledge and areas of inquiry. The program aims to prepare students for meaningful participation and contribution in an inclusive and diverse society, to be local, national, and global citizens, and to participate effectively and contribute meaningfully in a diverse workplace. Finally, the program intends to provide a nurturing environment for the whole person to help each student find their own strengths, gifts, and path, as well as to raise awareness about the way that path concerns and connects with others in local and global contexts.

Students find meaningful work in a variety of fields, including work with non-profits, international agencies, peace and justice organizations, LGBTQ rights organizations, medicine and midwifery, public health, social work, education, law, business, and the arts.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (either a minor, another major, or dual degree). Students majoring in Women, Gender, and Sexuality Studies and minoring in Lesbian, Gay, Bisexual, Transgender, and Queer Studies must declare a third field of study (either another major,

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minor or dual degree). This addresses the overlapping of courses across programs.
2. Advanced writing requirement: WRIT 31xx must be completed before taking WS 4000.
3. Global experience is a UMD goal for all students, international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling your degree requirements through study abroad.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

Advanced writing requirement must be completed before taking WS 4000.
WRIT 31xx - Adv Writing (3 cr)

Core (17 cr)

WS 1000 - Introduction to Women's and Gender Studies [LE CAT, LECD C, CULT D, SOC SCI, CDIVERSITY] (3.0 cr)
WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
WS 3100 - Feminist Thought [HUMANITIES, CDIVERSITY] (4.0 cr)
WS 4000 - Seminar (4.0 cr)
WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
or WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)

Electives (18 cr)

Take 6 or more course(s) totaling 18 or more credit(s) from the following:
Take 4 or more course(s) from the following:
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3150 - Women-Identified Culture [CDIVERSITY] (3.0 cr)
- WS 3156 - Feminist Research Methods Across Disciplines (3.0 cr)
- WS 3200 - Women's Autobiographies [GLOBAL PER] (3.0 cr)
- WS 3300 - Women and Spirituality [HUMANITIES, CDIVERSITY] (3.0 cr)
- WS 3350 - Women and the Law [CDIVERSITY] (3.0 cr)
- WS 3400 - Women and Film [GLOBAL PER] (3.0 cr)
- WS 3595 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- WS 3600 - Ecofeminism: Theories and Sustainable Practices [SUSTAIN] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
- WS 3775 - Gender, Globalization and Food [SUSTAIN] (3.0 cr)
- WS 3800 - Feminist Activism and Community Organizing (4.0 cr)
- WS 5595 - Special Topics: (Various Titles to Be Assigned) (3.0 cr)
- WS 3080 - Cultural Constructions of the Body (4.0 cr)
  or ANTH 3080 - Cultural Constructions of the Body (4.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
  or HIST 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3455 - American Indian Women [CDIVERSITY] (3.0 cr)
  or AMIN 3450 - American Indian Women [CDIVERSITY] (3.0 cr)
- WS 3628 - Women in Cross-Cultural Perspective (3.0 cr)
  or ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- WS 4323 - Women and Justice (3.0 cr)
  or CRIM 4323 - Women and Justice (3.0 cr)
- WS 4925 - Sociology of Rape (3.0 cr)
  or SOC 4925 - Sociology of Rape (3.0 cr)
- WS 4947 - Sociology of Gender (3.0 cr)
  or SOC 4947 - Sociology of Gender (3.0 cr)
- WS 3xxx-4xxx
- **Optional Experience (consent required)**
  Take 0 - 9 credit(s) from the following:
  - WS 3891 - Independent Study (1.0 - 3.0 cr)
  - WS 3897 - Internship (1.0 - 9.0 cr)
  - WS 5897 - Teaching Internship (1.0 - 2.0 cr)
  - WS 5991 - Independent Study (1.0 - 3.0 cr)
- **Optional Related Electives**
  Take 0 - 2 course(s) from the following:

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•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•HLTH 3118 - Women's Health Issues (3.0 cr)
•LGBT 3000 - Queer Theory (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•LGBT 3153 - Queer Media [CDIVERSITY] (3.0 cr)
•POL 3040 - Women and Politics (3.0 cr)
•PSY 3215 - Topics in Human Sexuality (3.0 cr)
•LGBT 3xxx

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Duluth Campus

Women, Gender and Sexuality Studies Minor

Justice Culture Social Change

College of Arts, Humanities and Social Sciences

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

This minor is designed to acquaint students with the past and present status, contributions, and concerns of women of diverse backgrounds; the many ways in which gender distinctions have affected human lives, as well as the construction and intersection of gender, race, and class; feminist scholarship; and critical and theoretical analyses and reflection upon these topics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Foundations (3 cr)

WS 1000 - Introduction to Women's and Gender Studies [LE CAT, LECD C, CULT D, SOC SCI, CDIVERSITY] (3.0 cr)
or WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)

Electives (15 cr)

Take 4 or more course(s) totaling 15 or more credit(s) from the following:
Take 3 or more course(s) from the following:

- WS 2001 - Introduction to Lesbian Gay Bisexual and Transgender Studies [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)
- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3100 - Feminist Thought [HUMANITIES, CDIVERSITY] (4.0 cr)
- WS 3150 - Women-Identified Culture [CDIVERSITY] (3.0 cr)
- WS 3156 - Feminist Research Methods Across Disciplines (3.0 cr)
- WS 3200 - Women's Autobiographies [GLOBAL PER] (3.0 cr)
- WS 3300 - Women and Spirituality [HUMANITIES, CDIVERSITY] (3.0 cr)
- WS 3350 - Women and the Law [CDIVERSITY] (3.0 cr)
- WS 3400 - Women and Film [GLOBAL PER] (3.0 cr)
- WS 3595 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- WS 3600 - Ecofeminism: Theories and Sustainable Practices [SUSTAIN] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
- WS 3775 - Gender, Globalization and Food [SUSTAIN] (3.0 cr)
- WS 3800 - Feminist Activism and Community Organizing (4.0 cr)
- WS 4000 - Seminar (4.0 cr)
- WS 5595 - Special Topics: (Various Titles to Be Assigned) (3.0 cr)
- WS 3080 - Cultural Constructions of the Body (4.0 cr)
  or ANTH 3080 - Cultural Constructions of the Body (4.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
  or HIST 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3455 - American Indian Women [CDIVERSITY] (3.0 cr)
  or AMIN 3450 - American Indian Women [CDIVERSITY] (3.0 cr)
- WS 3628 - Women in Cross-Cultural Perspective (3.0 cr)
  or ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- WS 4323 - Women and Justice (3.0 cr)
  or CRIM 4323 - Women and Justice (3.0 cr)
- WS 4925 - Sociology of Rape (3.0 cr)
  or SOC 4925 - Sociology of Rape (3.0 cr)
- WS 4947 - Sociology of Gender (3.0 cr)
  or SOC 4947 - Sociology of Gender (3.0 cr)
- WS 2xxx-4xxx
- **Optional Experience (consent required)**

Take 0 - 3 credit(s) from the following:

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- WS 3891 - Independent Study (1.0 - 3.0 cr)
- WS 3897 - Internship (1.0 - 9.0 cr)
- WS 5897 - Teaching Internship (1.0 - 2.0 cr)
- WS 5991 - Independent Study (1.0 - 3.0 cr)

•Optional Related Elective

Take 0 - 1 course(s) from the following:

- ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
- HLTH 3118 - Women's Health Issues (3.0 cr)
- LGBT 3000 - Queer Theory (3.0 cr)
- LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
- LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
- LGBT 3153 - Queer Media [CDIVERSITY] (3.0 cr)
- POL 3040 - Women and Politics (3.0 cr)
- PSY 3215 - Topics in Human Sexuality (3.0 cr)
- LGBT 3xxx

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Duluth Campus

Writing Studies B.A.

English Linguistics and Writing Studies

College of Arts, Humanities and Social Sciences

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 38
- Degree: Bachelor of Arts

The major explores writing as a field of inquiry: its production, its circulation, its uses, and its role in the development of individuals, professional communities, and societies. The major begins with the history of writing practices, genres, systems of production, and distribution. It uses the tools of qualitative, quantitative, and humanistic research to advance those explorations. It culminates in a practical examination of writing in traditional and emerging technologies.

The writing curriculum synthesizes 1) knowledge and experience with writing technologies from a liberal arts, as well as a technical, perspective; 2) practice in applying principles of rhetoric, design, cultural theory, and creative thinking to the production of professional writing projects; and 3) communities and other audiences. Students develop writing skills relevant to professional situations (document design and delivery, the development of varied writing techniques, and persuasive argument) with an understanding of writing's ethical and social implications. They also think reflectively and critically about their role as writers for professional and civic life. Students are encouraged to participate in UMD-sponsored internships in professional writing, corporate communication, editing, and publishing.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Students majoring in Writing Studies must complete a minor, second major, or dual degree in a field other than Professional Writing or Digital Writing, Literature, & Design minors.
2. Global experience is a UMD goal for all students, and international study is encouraged. Talk with an academic or faculty advisor to explore academic options for fulfilling some of your degree requirements through study abroad.

Learning in Community (1 cr)

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Information current as of January 17, 2023

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx - Adv Writing (3 cr)

Core (12 cr)
WRIT 1506 - Literacy, Technology and Society [LE CAT, HUMANITIES] (3.0 cr)
WRIT 2506 - Theories of Writing Studies (3.0 cr)
WRIT 4200 - Writing and Cultures (3.0 cr)
WRIT 4250 - New Media Writing (3.0 cr)

Capstone (1 cr)
WRIT 4506 - Capstone Course: Senior Portfolio Preparation (1.0 cr)

Writing Electives (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following: take at least 5 courses across the two course lists for a minimum total of 15 credits. WRIT 4197-Internship may be repeated for a total of 6 credits. (This excludes WRIT 1120 and 31xx.)
Take 3 - 5 course(s) from the following:
- WRIT 1006 - Journal and Memoir Writing [LE CAT] (3.0 cr)
- WRIT 2400 - Language of Advertising (3.0 cr)
- WRIT 2595 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- WRIT 4100 - Introduction to Grant Writing and Project Planning (3.0 cr)
- WRIT 4220 - Document Design and Graphics (3.0 cr)
- WRIT 4222 - Electronic Publication (4.0 cr)
- WRIT 4230 - Web Design and Digital Culture (3.0 cr)
- WRIT 4260 - Visual Narrative and Analytical Design (3.0 cr)
- WRIT 4300 - Research Methods for the Study of Writing (3.0 cr)
- WRIT 1xxx-4xxx
- **Optional Experience**

  Take 0 - 6 credit(s) from the following:
  - WRIT 4197 - Internship in Writing (1.0 - 3.0 cr)
  - WRIT 4591 - Independent Study (1.0 - 3.0 cr)

General Electives (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
- COMM 1xxx-4xxx
- ENGL 1xxx-4xxx
- FIN 1xxx-4xxx
- JOUR 1xxx-4xxx
- LING 1xxx-4xxx
- MIS 1xxx-4xxx
- TH 1xxx-4xxx

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Duluth Campus

Childhood Nature Studies B.A.Sc.

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 58 to 61
- Degree: Bachelor of Applied Science

The focus of Childhood Nature Studies is supporting all childrens learning, well-being, and unfolding capabilities through an interdisciplinary, nature-based lens. Quality childhood environments, relationships, and experiences, including nature-based experiences, are integral to healthy development and lifelong well-being, as well as to vibrant, socially just, and sustainable communities. This program entails a nature-based, interdisciplinary foundation of theory and practical skills, preparing graduates to work in synergy with professionals across care, education, health, mental health, social service, and environmental/conservation sectors toward providing equitable, coherent, and nature-rich experiences, environments, and services for all children.
Students in this program will have the opportunity for:
1 - studying childhood development from an eco-bio-developmental framework, the foundations of healthy development, and the potential for nature to support childrens learning, unfolding capabilities, and life-long well-being;
2 - learning to effectively engage in quality interactions with children and families and provide developmentally, and culturally appropriate experiences for children that support their learning and development, as well as further family and community relationships;
3 - gaining experience in designing and using nature-rich, playful learning environments, such as nature playscapes, early childhood nature play programs, and nature preschools;
4 - integrating theory and practice through immersion experiences, reflection, networking, and action research; and
5 - studying abroad in countries known for innovations in nature-based learning and development.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Learning in Community (1 cr)

Requirement will be waived for transfer students with at least 30 credits taken post high school, for UMD students who started in a

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UMD collegiate unit where this is not required, and upon request for first-year students with 30 PSEO credits.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

Child Development (21 - 22 cr)
Lower Division (11 cr)
ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
Upper Division (10 - 11 cr)
ECH 3050 - Early Relationships in Young Children: Observing and Guiding (4.0 cr)
SW 4215 - Trauma Informed Practice with Children and Adolescents (3.0 cr)
SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)
or SPED 3103 - Infants and Toddlers with Special Needs (4.0 cr)

Nature-Based Practices (15 - 16 cr)
Lower Division (8 - 9 cr)
ENED 1500 - Children, Nature and Sustainability [SUSTAIN] (3.0 cr)
ENED 1201 - Outdoor Skills I - Fall [PE] (2.0 cr)
or ENED 1202 - Outdoor Skills - Winter & Spring [PE] (2.0 cr)
or ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
or ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
ENED 2300 - Teaching and Learning (3.0 cr)
or ENED 4163 - Outdoor Education Methods (3.0 cr)
Upper Division (7 cr)
AHS 3100 - Risk Management (2.0 cr)
ENED 4500 - Early Childhood Nature Experiences and Pedagogies (3.0 cr)
ENED 4600 - Place-based Education (2.0 cr)

Social and Community Contexts (12 - 13 cr)
HLTH 3101 *{Inactive}*(3.0 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•EDUC 4381 - Teaching Indigenous Students (3.0 cr)
•EDUC 5230 - Indigenous Peoples and the Environment (3.0 cr)
•PSY 2023 - Marriages and Families Worldwide [LE CAT8, LEIP CAT08, GLOBAL PER] (4.0 cr)
•SOC 1201 - Sociology of the Family [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•SW 1000 - Introduction to Social Welfare [SOC SCI] (3.0 cr)
•SW 1619 - Race, Class, and Gender in the United States [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 1001 - Introduction to American Indian Studies [CDIVERSITY] (3.0 cr)
or AMIN 4410 - American Indian Philosophies [HUMANITIES, CDIVERSITY] (3.0 cr)

Synthesis (6 cr)
Take for 6 credits.
ENED 4996 - Outdoor Education Internship (6.0 - 12.0 cr)

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Duluth Campus

Coaching Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 17

The coaching minor program prepares graduates to coach in a variety of sites, including schools, public agencies, and youth organizations. The curriculum prepares students to assess, plan, administer, and instruct student athletes. The coaching minor meets or exceeds the SHAPE America Society of Health and Physical Educators, (SHAPE) National Standards for Sport Coaches, with an emphasis in coaching and administrative theory, psychology, medical and nutritional concerns, risk management, and skill development. Requirements and admission applications can be obtained from the Department of Applied Human Sciences (AHS). Post-baccalaureate students seeking a coaching minor should have their transcript evaluated by the department of AHS.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Coaching Minor Courses (15 cr)

CC 3117 - Functional Anatomy and Sport Injury Management (3.0 cr)
CC 3150 - Coaching Methods (3.0 cr)
CC 3160 - Psychological Aspects of Coaching and Athletic Performance (3.0 cr)
CC 3161 - Administrative Aspects of Coaching (3.0 cr)
PETE 2400 - Applied Exercise Science (3.0 cr)

Practicum (2 cr)

CC 3997 - Coaching Practicum (2.0 cr)

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Duluth Campus

Communication Sciences and Disorders B.A.Sc.

Communication Sciences & Disorders

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 65 to 68
- Degree: Bachelor of Applied Science

The B.A.Sc. in communication sciences and disorders prepares students for admission to professional graduate degree or licensure programs in speech-language pathology, audiology, or education of the hearing impaired. This pre-professional undergraduate program also prepares students to work as clinical aides to communication disorders specialists working in a variety of human service and health care settings.

The program includes the study of phonetics, the anatomy and physiology of the speech and hearing mechanisms, the normal development of speech and language, and the nature and treatment of disorders of speech, language, and hearing disorders.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 12 credits before admission to the program.

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 3.00 already admitted to the degree-granting college
- 3.00 transferring from another University of Minnesota college
- 3.00 transferring from outside the University

Freshman and transfer students are usually admitted to pre-major status before admission to this major. Pre-CSD majors or students with other declared majors can declare a CSD major when they have: (a) a cumulative GPA of 3.00 or higher, including transfer courses; (b) completed CSD 1100, CSD 2230, and CSD 2400 (i.e., the CSD Lower Division Core); and (c) earned a minimum of 12 credits, including transfer courses. In order to enroll in any upper division CSD courses (i.e., CSD 3xxx or higher) students must be declared CSD majors. Mandatory advising is required for all students with fewer than 60 credits and for students whose cumulative GPA is below 3.00, including transfer courses. For information about University of Minnesota admission requirements, visit the Office of Admissions website.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade

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point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

2. Compliance with general regulations governing granting of degrees.

3. Students seeking two degrees (e.g., a BA and B.A.Sc.) must fulfill the major requirements for both degrees.

4. Students are required to review their degree status in the CEHSP Advising & Academic Services Office early in their senior year.

Learning in Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Lower Division Core (6 cr)
CSD 1100 - Phonetics [LE CAT3] (2.0 cr)
CSD 2230 - Introduction to Human Communication Disorders [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
CSD 2400 - Clinical Observation of Communication Disorders (1.0 cr)

Junior Band (19 cr)
Must be admitted to the CSD major. Courses should be taken concurrently.
Fall (10 cr)
CSD 3103 - Anatomy of Speech and Hearing Mechanisms (3.0 cr)
CSD 3131 - Language Development (4.0 cr)
CSD 3150 - Fundamentals and Clinical Applications of Speech Science (3.0 cr)
Spring (9 cr)
CSD 3160 - Fundamentals of Hearing Science (3.0 cr)
CSD 3200 - Articulation and Phonological Disorders (3.0 cr)
CSD 3232 - Language Disorders (3.0 cr)

Senior Band (18 cr)
Fall (9 cr)
CSD 3241 - Foundations of Treatment in Communication Disorders I (3.0 cr)
CSD 3010 - Introductory Statistics for the Behavioral Sciences (3.0 cr)
CSD 4400 - Hearing Disorders and Evaluation (3.0 cr)
Spring (9 cr)
CSD 4150 - Neuroanatomy and Neurophysiology in Communication Sciences and Disorders (3.0 cr)
CSD 4241 - Foundations of Treatment in Communication Disorders II (3.0 cr)
CSD 4600 - Rehabilitative Procedures for the Hard of Hearing (3.0 cr)

Additional Requirements (18-21 cr)
Biology
BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
or BIOL 1170 - Human Biology [NAT SCI] (4.0 cr)
Communication
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
Physics
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)

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or PHYS 1011 - Conceptual Physics [LE CAT, NAT SCI] (3.0 cr)

Psychology

PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Certification and Licensure

In order to work in the state of Minnesota, speech-language pathologists must hold a master's degree, a certificate of clinical competence from the American Speech-Language-Hearing Association (ASHA), and license from either the MN Department of Health or MN Department of Education. Audiologists must hold a doctoral degree, a certificate of clinical competency from ASHA or board certification from the American Academy of Audiology, and a license from the MN Department of Health.

Accreditation

The graduate program is accredited by the Council of Academic Accreditation (CAA) of ASHA. CAA accreditation is recognized by the US Department of Education and the Council for Higher Education.

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Duluth Campus

Deaf Studies Minor

Education

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22

The deaf studies minor offers American Sign Language (ASL) competency and cultural knowledge for individuals who need or wish to communicate with employees, co-workers, family members, and friends. ASL is present in every realm of modern life, as deaf, hard of hearing, and deaf-blind people seek education and equitable employment. The minor also meets the needs of students interested in pursuing further study in sign language interpreting or deaf education.

While the deaf studies minor complements degrees in virtually any field of study, it is particularly advantageous to pair with majors in education, human services, liberal arts, theatre, and business.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core Language Requirements (15 cr)

Students with previous language study may be exempt from some core requirements and should consult the department about placement.

Lower Division Language Core

ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)

Upper Division Language Core

ASL 3003 - Intermediate American Sign Language I [COMM & LAN] (3.0 cr)
ASL 3004 - Intermediate American Sign Language II [COMM & LAN] (3.0 cr)
ASL 4005 - Advanced American Sign Language [COMM & LAN] (3.0 cr)

Core (4 cr)

ASL 4110 - Deaf Culture (3.0 cr)
ASL 4298 - American Sign Language Skill Building Workshop (1.0 cr)

Electives (3 cr)

Take 3 or more credit(s) from the following:

- ASL 4100 - Linguistics of American Sign Language (3.0 cr)
- ASL 4105 - History of the American Deaf Community [CDIVERSITY] (3.0 cr)
- ASL 4295 - Special Topics: Various Titles to be assigned (1.0 - 3.0 cr)

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Duluth Campus

Developmental/Adapted Physical Education Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 29

The Developmental/Adapted Physical Education (DAPE) minor prepares Physical Education majors (B.A.S.) to teach students with disabilities in public school settings. The Developmental/Adapted Physical Education license (8710.5300) is an add-on Special Education license for individuals holding a current K-12 Physical Education license. Successful completion of the program qualifies graduates to take the Minnesota Professional Educator Licensing & Standards Board (PELSB) examination for this licensure area.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 30 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Foundation Requirement (3 cr)

PETE 1000 - Introduction and Foundations of Physical Education (3.0 cr)

Minor Requirements

Students must maintain a C- or better in all required Developmental/Adapted Physical Education courses.

Lower Division (3 cr)

PETE 1006 - Teaching Aquatic and Adapted Activities (3.0 cr)

Upper Division (11 cr)

PETE 3200 - Developmental Movement: Concepts and Experiences (3.0 cr)
PETE 3400 - Adapted Physical Education (3.0 cr)
PETE 3450 - Teaching Students with Disabilities (3.0 cr)
PETE 3550 - Assessment and Evaluation in Adapted Physical Education (2.0 cr)

Special Education (7 cr)

SPED 4433 - Foundations in Special Education (3.0 cr)
SPED 4435 - Parent and Professional Communication and Collaboration (4.0 cr)

Education (3 cr)

EDSE 4214 - Teaching Content-Area Reading (3.0 cr)

Internship (2 cr)

PETE 4996 - Internship in Adapted Physical Education (2.0 cr)

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Duluth Campus

Early Childhood Studies B.A.Sc.

Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 72
- Degree: Bachelor of Applied Science

The bachelor of applied science degree in early childhood studies (ECS) is designed to prepare knowledgeable and skilled professionals in the field of early childhood studies. The program equips its graduates with developmentally appropriate skills for supporting the development of the childs intellectual, communication, socio-emotional, physical, and personality domains.

Compelling current research in the field of child development and education emphasizes the importance of early investment in quality programming for young children and families. The recognition of critical periods has altered the landscape of best practices in early years and hence the required competencies for professionals serving young children and their families.

Concentrating on the ages 0-5 years provides students an opportunity to delve deeper into the growing plethora of interdisciplinary literature and resources available to the early childhood field. At the core of the major is the focus on quality services and programing for young children and families.

The ECS major utilizes a comprehensive approach to equipping students with knowledge in the foundation of child development and well-being, drawing from the fields of infant and early childhood mental health, interpersonal neurobiology, early childhood education, and early childhood special education. The major also aims to equip students with developmentally appropriate practices for nurturing curiosity and facilitating the development of creativity and appreciation of the arts in children.

In addition to a host of core early childhood studies courses and liberal education requirements, students either select a minor or recommended interdisciplinary electives offered by the early childhood program or other disciplines in the university.

This program also offers a clearer path to graduate studies in related fields.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

1. A second field of study (e.g. minor, major, degree) is not required for this major.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-Major Core (9 cr)

ECH 2010 - Foundational Issues in Early Childhood Studies (3.0 cr)
ECH 2015 - Literature for Young Children (3.0 cr)
ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)

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General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Early Education Core (17 cr)

ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
ECH 3050 - Early Relationships in Young Children: Observing and Guiding (4.0 cr)
ECH 3055 - Creative Expressions and Emergent Literacy: Birth - Age 8 (4.0 cr)
ECH 3104 - Family Partnerships (1.0 cr)
ECH 4009 - Leadership in Early Childhood Studies (3.0 cr)
ECH 4010 - Infant and Early Childhood Perceptual and Psychomotor Development (2.0 cr)

Education Core (10 cr)

ECH 4400 - Professional Development Seminar (1.0 cr)
EDUC 1100 - Human Diversity [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
ENED 1500 - Children, Nature and Sustainability [SUSTAIN] (3.0 cr)
HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)

Special Education Core (11 cr)

SPED 3103 - Infants and Toddlers with Special Needs (4.0 cr)
SPED 3105 - Young Children with Special Needs: Ages Three-Eight (4.0 cr)
SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)

Childhood Field Placement (3 cr)

Expected 10 hours per week off campus internship in early childhood programs. Offered spring Semester only.
ECH 4950 - Guided Field Experience for Early Childhood Studies (3.0 cr)

Upper Division Electives (18 cr)

A minor in OR course at the 3xxx level or above in the following departments: African/African American studies, communication, deaf studies, environmental & outdoor education, journalism, music, psychology, public health, social work, sociology, special education, theatre or women, gender and sexuality studies.
Take 18 or more credit(s) from the following:
•Minor and Supporting Courses

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Duluth Campus

Early Childhood Studies Minor

Education

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 20 to 22

Current research in the field of child development and education emphasizes the importance of early investment in quality programming for young children and families. The recognition of critical periods has altered the landscape of best practices and hence the required competencies for professionals from across disciplines who interface with young children and their families (e.g. social work, psychology, communication sciences and disorders, public health, nursing, occupational and physical therapy, medicine). In response, the Department of Education has designed a minor with an interdisciplinary curriculum. At the core of the minor is the focus on quality services and programming for young children and families.

Quality programming and service provision depends on highly trained professionals from across disciplines. A primary intent of the Early Childhood Minor is to foster the use of an interdisciplinary lens in preservice learners. Courses within the minor afford the opportunity for future professionals in human services related fields to think and work across disciplinary silos. The emphasis on interdisciplinary approaches harnesses the capacity across discipline-specific expertise and increases the likelihood of more seamless and efficient services delivered in future practice.

The Early Childhood Minor is intended to provide students with knowledge and skills designed to support scholarly and community-based work with children and their caregivers. A comprehensive approach to the foundation of child health and well-being is integrated throughout coursework, drawing from fields of infant and early childhood mental health, and interpersonal neurobiology. Emphasis is placed on the integration and application of attachment theory, the neuro-relational underpinnings of development, and the role of reflective capacity in caregiving. Throughout the minor, participants examine aspects of early caregiver-child relationships, the impact of early adverse experiences on brain development, the role of the stress response system, and the importance of protective factors in changing long-term developmental outcomes. Specific course-related activities include infant/toddler observation, reflective supervision, and examination of evidence-based approaches to working with children and families at risk. Further, policy relevant to programs for young children and their families is highlighted and the role of "self" as child advocate is discussed. The research based early childhood curriculum is designed to support students who are preparing to work in areas that focus on children and families.

Program Delivery

This program is available:

- partially online (between 50% to 80% of instruction is online)

Admission Requirements

Students must complete 15 credits before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Core (14 cr)

ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
ECH 3050 - Early Relationships in Young Children: Observing and Guiding (4.0 cr)
SPED 3103 - Infants and Toddlers with Special Needs (4.0 cr)
SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)

Electives (6 - 8 cr)

Must take courses from at least 2 subjects.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- CSD 3131 - Language Development (4.0 cr)
- ENED 1500 - Children, Nature and Sustainability [SUSTAIN] (3.0 cr)
- HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
- HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
- HLTH 3341 - Encountering Death and Grief: A Cross-Cultural Journey [CDIVERSITY] (3.0 cr)
- PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
- PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
- PSY 2023 - Marriages and Families Worldwide [LE CAT8, LEIP CAT08, GLOBAL PER] (4.0 cr)

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•SW 1000 - Introduction to Social Welfare [SOC SCI] (3.0 cr)
•SW 1619 - Race, Class, and Gender in the United States [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
•SW 4113 - Introduction to Child Welfare Practice (3.0 cr)

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Duluth Campus

Education Studies B.A.

Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 44 to 52
- Degree: Bachelor of Arts

The Education Studies degree gives students the knowledge and skills to work effectively with children and youth in positions that do not require state licensure/certification, an early opportunity to enter a teacher licensure/certification program at a later date, or a strong foundation for students interested in areas such as learning theory, educational psychology, child development, and education best practices in preparation for a variety of other occupations and career paths. The intended audience is for students no longer interested in pursuing a teaching license, but still interested in seeking careers with children and adolescents. The program does not lead to licensure; however, graduates will be prepared to work in non-profit agencies, youth centers, after-school programs and more.

It is designed for students already admitted to the UMD Education Blocks (junior/senior year) who have completed a majority of Block courses.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 90 credits before admission to the program.

Students must have been admitted to the teacher education program (blocks) to be eligible for admission into this program. Students must have completed 90 credits and have completed a minimum of 12 credits of the Education Core coursework.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx Adv Writing (3 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this

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requirement.

6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

Core (20 - 28 cr)

EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)

Assessment

EDSE 4525 - Assessment for Secondary Education (3.0 cr)
or MU 3607 - Instrumental Music Methods (3.0 cr)
or MU 3701 - Choral Conducting and Methods I (3.0 cr)
or PETE 3500 - Student Assessment in Physical Education (3.0 cr)
or SPED 3205 - Foundations in Early Childhood Assessment (2.0 cr)
or SPED 4204 - Assessment in the General and Special Education Classroom (4.0 cr)

Diversity

ECH 3060 - Teaching Culturally and Linguistically Diverse Children (3.0 cr)
or EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
or EDUC 1100 - Human Diversity [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
or EDUC 4381 - Teaching Indigenous Students (3.0 cr)
or IESE 2001 - Diversity and Education Implications (3.0 cr)

Health/Drug Education

HLTH 3202 - Drug Education (2.0 cr)
or AHS 3300 - Health and Physical Education in the Elementary School (3.0 cr)
or MU 2605 - Introduction to Music Education (1.0 cr)
or SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)

Human Development

ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
or EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
or PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Literacy

ECH 2015 - Literature for Young Children (3.0 cr)
or EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
or EDSE 4215 - Teaching Reading and Literature: Grades 5-12 (4.0 cr)
or EDUC 4347 - Second Language Acquisition & ELL: How Second Languages are Learned & Methods for Teaching (2.0 cr)
or IESE 3325 - Foundations of Literacy and Language (3.0 cr)
or IESE 3326 - Advanced Literacy & Language: Designing & Implementing a Comprehensive Literacy Program (3.0 cr)
or IESE 3331 - Children's Literature in the Elementary School (3.0 cr)

Special Education

MU 4606 - Special and Adaptive Methods in Music Education [CDIVERSITY] (3.0 cr)
or PETE 3400 - Adapted Physical Education (3.0 cr)
or SPED 1357 - Individuals with Disabilities in Society [LE CAT, LECD C] (3.0 cr)
or SPED 3415 - Special Education in the Secondary School (3.0 cr)
or SPED 4433 - Foundations in Special Education (3.0 cr)

Technology

ART 3814 - Digital Media in Art Education (3.0 cr)
or EDUC 2000 - Technology for Teaching and Learning (3.0 cr)
or EDUC 3412 - The Computer in Education (4.0 cr)
or MU 3608 - Teaching Elementary Music (3.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Early Childhood and Early Childhood Special Education

This emphasis is will provide specialized background in working with children Birth-Age 6 in Early Childhood Special Education and

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Birth-Grade 3 in Early Childhood Education. This major is not eligible for teacher licensure.

Required credits to graduate with this degree: 120
Required credits within the major: 44 - 52

Requirements (20 cr)
Take 20 or more credit(s) from the following:
- •ECH 2xxx
- •ECH 3xxx
- •SPED 3xxx

Elementary and Special Education
This emphasis will provide specialized background in working with children K-Grade 6 in Elementary Education and K-Grade 12 in Special Education: Academic Behavioral Strategist. This major is not eligible for teacher licensure.

Required credits to graduate with this degree: 120
Required credits within the major: 44 - 52

Requirements (20 cr)
Take 20 or more credit(s) from the following:
- •IESE 1xxx
- •IESE 2xxx
- •IESE 3xxx
- •IESE 4xxx
- •SPED 4xxx

Secondary Education
This emphasis will provide specialized background in working with children in Grades K-12/Grades 5-12. This major is not eligible for teacher licensure.

Required credits to graduate with this degree: 120
Required credits within the major: 44 - 52

Requirements (20 cr)
Take 20 or more credit(s) from the following:
- •ANTH 1xxx
- •ANTH 3xxx
- •ART 1xxx
- •ART 2xxx
- •ART 3xxx
- •ART 4xxx
- •ARTH 1xxx
- •ARTH 2xxx
- •ARTH 3xxx
- •ARTH 4xxx
- •AST 1xxx
- •BIOL 1xxx
- •BIOL 2xxx
- •BIOL 3xxx
- •CHEM 1xxx
- •CHEM 2xxx
- •CHEM 3xxx
- •COMM 1xxx
- •ECON 1xxx
- •ECON 2xxx
- •ECON 3xxx
- •ECON 4xxx
- •EDSE 3xxx
- •EDSE 4xxx
- •EDUC 4234 - Science, Technology, and Society [SUSTAIN] (3.0 cr)
- •ENGL 1xxx
- •ENGL 2xxx
- •ENGL 3xxx
- •ENGL 4xxx
- •ENGL 5xxx
- •EXSC 2xxx

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- EXSC 3xxx
- FR 1xxx
- FR 2xxx
- FR 3xxx
- FR 4xxx
- GEOG 1xxx
- GEOG 2xxx
- GEOG 3xxx
- GEOG 4xxx
- GEOL 1xxx
- GEOL 2xxx
- GEOL 3xxx
- GER 1xxx
- GER 2xxx
- GER 3xxx
- GER 4xxx
- HIST 1xxx
- HIST 2xxx
- HIST 3xxx
- HLTH 1xxx
- HLTH 2xxx
- HLTH 3xxx
- LING 1xxx
- MATH 1xxx
- MATH 2xxx
- MATH 3xxx
- MATH 4xxx
- MU 1xxx
- MU 2xxx
- MU 3xxx
- MU 4xxx
- PETE 1xxx
- PETE 2xxx
- PETE 3xxx
- PHYS 1xxx
- PHYS 2xxx
- PHYS 3xxx
- POL 1xxx
- POL 3xxx
- PSY 1xxx
- PSY 2xxx
- PSY 3xxx
- PSY 4xxx
- SOC 1xxx
- SOC 3xxx
- SOC 4xxx
- SPAN 1xxx
- SPAN 2xxx
- SPAN 3xxx
- SPAN 4xxx
- STAT 3xxx
- WS 2xxx
- WS 3xxx

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Duluth Campus

Environmental and Outdoor Education B.A.Sc.

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 68
- This program requires summer terms.
- Degree: Bachelor of Applied Science

The bachelor of applied science (B.A.Sc.) in environmental and outdoor education prepares students for professional careers in outdoor education allowing them to work in non-formal outdoor education settings such as nature centers, city, state, or national parks, college outdoor programs, or for commercial agencies. Core components include program planning and delivery, education methods, physical skills development, management, facilities coordination, evaluation, and principles of recreation. The environmental and outdoor education major is a four-year curriculum including one full semester of field placement in an outdoor educational setting.

This major provides professional training for nontraditional education settings that may not require a teaching license as a prerequisite credential. Refer to the environmental education emphasis under the teaching life science and/or teaching earth and space science majors and/or the outdoor education concentration under the physical education major for training that includes a teaching licensure.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

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2.Completion of all courses specified for the major with a minimum cumulative 2.00 GPA (including transfer work). No grades lower than C- in upper division core courses required for the major.

3. Compliance with general regulations governing granting of degrees. Students are required to review their degree status in the CEHSP Advising & Academic Services Office early in their senior year.

4. Skill Competency: Students who enroll in Physical Education Teaching Education (PETE) teaching skill courses must demonstrate advanced skills competencies for the course. Descriptions of skills required should be reviewed with the course instructor before enrollment.

5. We strongly encourage students to spend at least one term studying in an international setting. Our faculty provide direction to countries and sites worldwide to best help your professional goals and academic needs.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Environmental Education Core (13 cr)

ENED 1000 - Introduction to Environmental and Outdoor Education (4.0 cr)
ENED 1201 - Outdoor Skills I - Fall [PE] (2.0 cr)
ENED 1202 - Outdoor Skills - Winter & Spring [PE] (2.0 cr)
ENED 2300 - Teaching and Learning (3.0 cr)

Physical Education

PE 1500 - Cross-Country Skiing [PE] (1.0 cr)
PE 1508 - Flatwater Canoeing [PE] (1.0 cr)

Upper Division Core (43 cr)

Teaching Skills

ENED 4410 - Ropes Course Management (3.0 cr)
PETE 3501 - Teaching Cross-Country Skiing (1.0 cr)
PETE 3505 - Teaching Outdoor Skills - Fall (2.0 cr)
PETE 3507 - Teaching Outdoor Skills - Winter & Spring (2.0 cr)

Natural/Cultural History

ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)

Professional Knowledge

ENED 4300 - Therapeutic Applications of Outdoor Education (3.0 cr)
ENED 4555 - Foundations of Environmental Education (3.0 cr)
ENED 4601 - Wilderness Philosophy (2.0 cr)

Teaching Methods

ENED 3309 - Outdoor Leadership (1.0 cr)
ENED 3310 - Outdoor Leadership Field Experience (2.0 cr)
ENED 4163 - Outdoor Education Methods (3.0 cr)

Teaching Nature Methods

ENED 4500 - Early Childhood Nature Experiences and Pedagogies (3.0 cr)
or ENED 4565 - Young Children, Nature, and Sustainability [SUSTAIN] (3.0 cr)

Management

AHS 3100 - Risk Management (2.0 cr)
ENED 3400 - Program Development and Evaluation in Environmental and Outdoor Education (3.0 cr)
ENED 4315 - Operations and Management (4.0 cr)
ENED 4320 - GIS Management for Recreation Professionals (3.0 cr)

Internship (8 cr)

Exit standards: students must complete a full semester (8 credits) of field placement at a pre-approved site. A minimum of 600 contact hours must be completed. Students may complete their internship at a site located locally, nationally, or internationally. An overall GPA of 2.50 is required for enrollment.

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ENED 4996 - Outdoor Education Internship (6.0 - 12.0 cr)

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Duluth Campus

Environmental and Outdoor Education Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 24

The environmental and outdoor education minor familiarizes students with informal outdoor education settings.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Acceptance into this minor requires a minimum GPA of 2.50 plus application to the Department of Health, Physical Education, and Recreation (HPER).

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Lower Division Core (7 cr)

ENED 1000 - Introduction to Environmental and Outdoor Education (4.0 cr)
ENED 2300 - Teaching and Learning (3.0 cr)

Upper Division Core (17 cr)

ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
or ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
ENED 4163 - Outdoor Education Methods (3.0 cr)
PETE 3505 - Teaching Outdoor Skills - Fall (2.0 cr)
or PETE 3507 - Teaching Outdoor Skills - Winter & Spring (2.0 cr)
ENED 4997 - Recreation Practicum (3.0 cr)
Take 6 or more credit(s) from the following:
•ENED 3xxx
•ENED 4xxx
•ENED 5xxx

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Duluth Campus

Exercise and Rehabilitation Sciences B.A.Sc.

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 73 to 75
- Degree: Bachelor of Applied Science

The B.A.Sc. offers preparation for graduate school and a sound basis for professional training in the exercise and health sciences. The faculty in exercise science encourages students to develop as active scholars and to participate in undergraduate research. Abilities in math, science, and critical thinking are required for matriculation and graduation.

Most upper level EXSC courses have a graded laboratory component. Students work under supervision in the Exercise Physiology Laboratory, Biomechanics Laboratory, and Motor Learning Laboratory. Students combine theoretical knowledge with practical experience in electrocardiography, exercise testing, exercise supervision, and strength and conditioning procedures in a managed learning environment. They monitor and mentor students involved in exercise programs. Labs and other physical facilities allow learning via student research and activity. Substantial opportunities exist for interested students to conduct independent research under the guidance of faculty mentors. Such projects have the potential to be presented at the local, state, and national professional meetings. This provides students with an unparalleled opportunity for professional development and personal growth.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

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UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Foundational Sciences (26 - 28 cr)
First biology, chemistry and mathematics course is determined by ACT mathematics score. This program supposes placement directly in each required course.

Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
or BIOL 1170 - Human Biology [NAT SCI] (4.0 cr)

Chemistry
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Mathematics
MATH 1005 - College Algebra (5.0 cr)
or MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Physics
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)

Anatomy & Physiology
HLTH 2030 - Human Anatomy and Physiology I with lab (4.0 cr)
HLTH 2040 - Human Anatomy and Physiology II with Lab (4.0 cr)

EXSC Core (43 cr)

Lower Division
EXSC 1000 - Introduction to Exercise Science Foundations and Exploration for Allied Health Professions (2.0 cr)
EXSC 2420 - Aerobic and Fitness Assessment Techniques in Exercise Science (1.0 cr)
EXSC 2430 - Resistance Training Techniques in Exercise Science (1.0 cr)

Upper Division
EXSC 3200 - Motor Learning and Control (4.0 cr)
EXSC 3210 - Exercise Adherence (3.0 cr)
EXSC 3300 - Human Biomechanics (4.0 cr)
EXSC 3400 - Exercise Physiology (4.0 cr)
EXSC 3410 - Exercise Metabolism and Nutrition (4.0 cr)
EXSC 3420 - Exercise Testing and Prescription (3.0 cr)
EXSC 3430 - Principles of Resistance Training: Scientific Foundations and Practical Applications (3.0 cr)
EXSC 3440 - Clinical Exercise Physiology (4.0 cr)
EXSC 4700 - Statistics and Research Methods in Exercise Science (4.0 cr)
EXSC 4710 - Applied and Experimental Exercise Science (4.0 cr)

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Duluth Campus

Health and Wellness Coaching Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 22 to 24

The Health and Wellness Coaching Minor offers the basic skills and knowledge consistent with a career or interest in health and wellness coaching. A health/wellness coach is a supportive mentor who helps others feel their best through lifestyle changes that meet their unique needs. Students will learn to assess the current health/wellness needs of clients through course work such as Human Nutrition, Health and Wellness Strategies for Life, and Facilitating Healthy Lifestyles. The Health and Wellness Coaching Minor will then provide further instructional options to aid in areas the student would like to pursue such as Exercise Adherence, Behavioral Analysis and Behavioral Change, and Cross-Cultural Psychology. These courses will assist the student in learning how to set goals and develop plans of action to work towards the clients desired outcomes.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 30 credits before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Admission Requirements (10 cr)

HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Minor Requirements

Core (6 cr)

HLTH 4400 cannot be applied to both Public Health BASc and the Health and Wellness Coaching Minor.
HLTH 3400 - Facilitating Healthy Lifestyle Change (3.0 cr)
HLTH 4400 - Professional Health Coaching (3.0 cr)

Electives (6 cr)

Courses taken cannot be applied to both Public Health BASc and the Health and Wellness Coaching Minor.

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- EXSC 3210 - Exercise Adherence (3.0 cr)
- EXSC 3410 - Exercise Metabolism and Nutrition (4.0 cr)
- HLTH 3117 - Principles of Sex Education (3.0 cr)
- HLTH 3118 - Women's Health Issues (3.0 cr)
- HLTH 3202 - Drug Education (2.0 cr)
- HLTH 3341 - Encountering Death and Grief: A Cross-Cultural Journey [CDIVERSITY] (3.0 cr)
- PSY 3051 - Cross-cultural Psychology (3.0 cr)
- PSY 3215 - Topics in Human Sexuality (3.0 cr)
- PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
- PSY 4500 - Health Psychology (3.0 cr)
- SW 1619 - Race, Class, and Gender in the United States [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- SW 4101 - Human Behavior in Social Environment (3.0 cr)
- WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- WS 4925 - Sociology of Rape (3.0 cr)

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Duluth Campus

Individualized Integrated B.I.S.

College of Educ & Human Service Professions - Adm

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 65 to 66
- Degree: Bachelor of Individualized Studies

This major is designed to serve self-motivated students who have a desire to create an original major that captures their unique interests, experiences, and needs. Students work with faculty members and professional advisors to develop a plan of study that clearly connects two or more academic programs/disciplines.

The program serves new students who want to major in interdisciplinary areas for which majors are not available at UMD, current students who want to utilize existing UMD coursework to design their own interdisciplinary major, and transfer students from community colleges who wish to integrate previous coursework with coursework in CEHSP to design their own interdisciplinary major.

Students will prepare a proposal for an Individualized Integrated Major Program (IIMP) under the guidance of a professional advisor in the CEHSP Advising and Academic Service Office and one or more faculty advisor. The professional advisor will help the student to clarify their intended goals and to assist the student in identifying an appropriate faculty advisor. Both the professional advisor and the faculty advisor will assist the student during the development of the proposal. The proposal will include a plan of study that demonstrates the rationale for the outlined plan, describes the unity of the interdisciplinary areas to be studied and outlines the integrative capstone project to be undertaken as the culminating project for the program. The capstone project will be reflective of the interdisciplinary nature of the program and could take the form of a research project or an applied project. A student is accepted for admission to the IIMP after the proposal is reviewed and approved by the IIMP Committee.

Each capstone project will be reviewed by the IIMP committee (IIMP). This committee will be comprised of one faculty member from each collegiate department and the designated academic advisor(s) so as to ensure that the IIMP program maintains its integrity of being a collegiate program.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 30 credits before admission to the program.

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Students enter as pre-majors and are admitted after their proposal outlining their course of study is approved. Students entering the major will be required to be in good academic standing (i.e. not on probation).

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.

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6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3100 - Advanced Writing: Language and Literature (3.0 cr)
or WRIT 3110 - Advanced Writing: Arts and Letters (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)
or WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Statistics/Research Methods (3 - 4 cr)

CSD 3010 - Introductory Statistics for the Behavioral Sciences (3.0 cr)
or EXSC 4700 - Statistics and Research Methods in Exercise Science (4.0 cr)
or PSY 2020 - Introduction to Statistics and Research Methods (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)

Approved Program Electives (55 cr)

Content courses, as designed by the student in their proposal and approved by their advisor.

Capstone (3 cr)

Take 3 or more credit(s) from the following:
- EHS 4990 - Individualized Integrated Major Capstone Project (1.0 - 3.0 cr)

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Duluth Campus

Integrated Elementary and Special Education B.A.Sc.

Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 130
- Required credits within the major: 114
- This program is 9 terms (4½ years) long.
- Degree: Bachelor of Applied Science

Successful completion of the bachelors of applied science (B.A.Sc.) degree from the Integrated Elementary and Special Education (IESE) program prepares students to teach in the areas of K-6 elementary education and K-12 special education in the areas of learning disabilities, emotional behavior disorders, autism spectrum, developmental cognitive delay, and other health impairments within the mild to moderate range. This multi-categorical special education license is called Academic and Behavioral Strategist (ABS). The major meets Minnesota Professional Educator Licensing and Standards Board licensure requirements for teaching Elementary Education (K -Grade 6) and Special Education: Academic Behavioral Strategist (K-Grade 12) in Minnesota. The major also provides a good foundation for programs leading to licensure as an elementary principal or school counselor, employment in public and private schools, as well as correctional settings, human service agencies, hospital-based settings, and private practice.

An effective teacher should possess a broad background in liberal and professional education. This professional program focuses on the structure of the various disciplines: the child as learner, the learning environment, diverse learners, teaching strategies in both elementary and special education clinical experience settings. All students complete a common core of courses in elementary and special education with emphasis in theory and teaching strategies in literacy and language arts, math, social studies, science, classroom and behavior management, assessment, and academic intervention.

Elementary and special education licensure requirements are established by the state of Minnesota and guided by national standards. Those requirements change periodically. For this reason, all IESE majors should maintain contact with their advisor as they advance through the program.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the block process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.70 already admitted to the degree-granting college
- 2.70 transferring from another University of Minnesota college
- 2.70 transferring from outside the University

Students entering the Integrated Elementary & Special Education license program are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Department of Education, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum 2.7 major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing and all requirements online at: https://z.umn.edu/ieseapplication. Application for admission is due the 6th Friday of the semester prior to starting Block I. Application can be completed fall or spring semester prior to starting the blocks.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)

or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)

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or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Foundations for Education (27 cr)
ART 2810 - Art in Elementary Education [LE CAT, FINE ARTS] (3.0 cr)
CSD 2230 - Introduction to Human Communication Disorders [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
EDUC 2000 - Technology for Teaching and Learning (3.0 cr)
IESE 1010 - Introduction to Elementary & Special Education: Inclusive & Anti-Racist Schooling (3.0 cr)
MATH 1140 - Mathematics for Elementary Education I [LOGIC & QR] (3.0 cr)
MATH 1142 - Mathematics for Elementary Education II (3.0 cr)
IESE 2001 - Diversity and Education Implications (3.0 cr)
or EDUC 1100 - Human Diversity [LE CAT, LECD C, CDIVERSITY] (3.0 cr)

Core (12 cr)
AHS 3300 - Health and Physical Education in the Elementary School (3.0 cr)
IESE 3331 - Children's Literature in the Elementary School (3.0 cr)
MU 3600 - Music in the Elementary Classroom (3.0 cr)
SPED 4433 - Foundations in Special Education (3.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major. Students must complete all courses on the A-F grading basis, with the exception of student teaching, earn a grade of C- or better and also successfully achieve all standards aligned with the assignments in each course.
3. Maintain a minimum 2.7 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student

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Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

Block Requirements (71 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/ieseapplication. Application for admission can be completed fall or spring semester prior to starting the blocks.

Block 1 (17 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while in field placement settings. Application to the blocks must be completed one semester prior to starting Block 1. Learn more online at: https://z.umn.edu/ieseapplication

IESE 3325 - Foundations of Literacy and Language (3.0 cr)
IESE 4366 - Teaching Elementary Social Studies I (3.0 cr)
SPED 4310 - Response to Intervention in the General Education Classroom (3.0 cr)
SPED 4381 - Classroom and Behavior Management (4.0 cr)
SPED 4435 - Parent and Professional Communication and Collaboration (4.0 cr)

Block 2 (16 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while in field placement settings.

EDUC 4347 - Second Language Acquisition & ELL: How Second Languages are Learned & Methods for Teaching (2.0 cr)
IESE 3355 - Critical Thinking Elementary Mathematics Methods I (2.0 cr)
IESE 4344 - Teaching Science and Environmental Education I (3.0 cr)
IESE 4367 - Teaching Elementary Social Studies II (2.0 cr)
SPED 4204 - Assessment in the General and Special Education Classroom (4.0 cr)
SPED 4452 - Academic Interventions for Students with Disabilities (3.0 cr)

Block 3 (14 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while working in field placement settings. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be addressed with academic advisor. It is recommended, immediately following the completion of Block 3 prior to starting Block 4 take the MTLE Content and Pedagogy exams.

EDUC 4381 - Teaching Indigenous Students (3.0 cr)
IESE 3326 - Advanced Literacy & Language: Designing & Implementing a Comprehensive Literacy Program (3.0 cr)
IESE 3356 - Elementary Mathematics Methods II (3.0 cr)
IESE 4346 - Teaching Science & Environmental Education II (2.0 cr)
SPED 4585 - Individual Education Plans: Development and Implementation (3.0 cr)

Block 4 (12 cr)

All courses must be taken concurrently. Application for SPED student teaching must be made by the 4th Friday of this semester. Liability insurance and approved background check must be complete. Students must have grades of C- or better in all required courses & meet the required GPA in the major to be eligible for student teaching. Students must register for ELED 4600 for 12 credits. Students must complete and submit the edTPA for scoring as outlined in the course requirements of ELED 4600.

ELED 4600 - Student Teaching (6.0 - 12.0 cr)

Block 5 (12 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while working in field placement settings. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching. Students must register for SPED 4600 for 9 credits.

SPED 4455 - Transitional Planning for Adolescents with Disabilities (3.0 cr)
SPED 4600 - Student Teaching (1.0 - 12.0 cr)

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Duluth Campus

Physical Education B.A.Sc.

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120 to 121
- Required credits within the major: 99 to 100
- Degree: Bachelor of Applied Science

The bachelor of applied science (B.A.Sc.) in physical education is for students preparing for teacher licensure in physical education (K-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for Physical Education in grades K-12 in Minnesota. The program is taught using the Learner-Sensitive Educator Model, supporting preferences of reflection, social justice, collaboration, empowerment, and technology.

Students are required to obtain personal liability insurance to protect them while they are working in public school situations. Proof of insurance also is required when enrolled in Physical Education Teacher Education (PETE) 4100, 4125, 4200, 4225, 4255, and student teaching. This usually is obtained most economically by student membership in the Minnesota Education Association. Applications are available in the department office.

The physical education program develops subject matter expertise of prospective teachers through a sequential set of courses. PETE courses are open only to majors, allowing faculty to focus on the specific needs and learning objectives of the physical education major.

The physical education program also instills an appropriate set of professional dispositions (attitudes and behaviors) that are predictors of success in educational settings. Students who fail to exhibit appropriate dispositions may be removed from the program.

Students should utilize a What-if APAS Report as the official tool to see all requirements to degree completion Due to the complexity of the admission to the blocks process, students are strong encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing and all requirements outlined online at http://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block 1. Application for admission can only be completed fall semester for spring semester entry into Block 1. See advisor if our of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)

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or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Lower Division Core (37 - 38)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
HLTH 1600 - Basic First Aid and CPR (2.0 cr)
PETE 1000 - Introduction and Foundations of Physical Education (3.0 cr)
PETE 1001 - Teaching Fundamental Movement Skills (2.0 cr)
PETE 1002 - Teaching Team Sport Activities (2.0 cr)
PETE 1004 - Teaching Lifetime and Outdoor Activities (3.0 cr)
PETE 1005 - Teaching Physical Fitness Activities (2.0 cr)
PETE 1006 - Teaching Aquatic and Adapted Activities (3.0 cr)
PETE 1008 - Teaching Dance and Rhythmic Activities (3.0 cr)
PETE 2400 - Applied Exercise Science (3.0 cr)
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)

Upper Division Core (18 cr)
EDUC 3412 - The Computer in Education (4.0 cr)
HLTH 3202 - Drug Education (2.0 cr)
PETE 3100 - Curricular Approaches in Physical Education (3.0 cr)
PETE 3200 - Developmental Movement: Concepts and Experiences (3.0 cr)
PETE 3400 - Adapted Physical Education (3.0 cr)
PETE 3500 - Student Assessment in Physical Education (3.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Compliance with general regulations governing granting of degrees.
3. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
4. Maintain a minimum 2.5 cumulative and major GPA.
5. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
6. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
7. Background Checks: students are required to obtain an approved background check every three years prior to placement in field

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experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
8. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
9. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
10. Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
11. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
12. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

Block Requirements (40 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed FALL ONLY for SPRING SEMSETER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (13 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while in field placement settings.

EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
PETE 4250 - Supervised Teaching College I: Planning for Instruction (1.0 cr)
PETE 4100 - Elementary Physical Education Methods (4.0 cr)
with PETE 4125 - Apprenticeship: Elementary (2.0 cr)

Block 2 (13 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while working in field placement settings. Application for student teaching due 4th Friday of this semester. Course deficiencies on Program Clearance Summary form must be addressed with academic advisor. Block 2 is the time to take the MTLE Content exams. Immediately following the completion of Block 2 prior to starting Block 3 take the MTLE Pedagogy exams.

EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
PETE 4255 - Supervised Teaching College II: Implementation and Class Management (1.0 cr)
PETE 4200 - Secondary Physical Education Methods (4.0 cr)
with PETE 4225 - Apprenticeship: Secondary (2.0 cr)

Block 3 (14 cr)

All courses must be taken concurrently. Liability insurance & approved background check must be complete. Students must have grades of C- or better in all required courses, meet the required major GPA, and complete at least 85% of teaching major courses to be eligible for student teaching. Students must complete and submit the edTPA for scoring as outlined in EDSE 4600.

EDUC 4500 - Professional Issues and Ethics (1.0 cr)
PETE 4600 - Seminar in Physical Education (1.0 cr)
Take exactly 6 credit(s) from the following:
•EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
Take exactly 6 credit(s) from the following:
•ELED 4650 - Student Teaching in Individual Subjects: K-8 (1.0 - 6.0 cr)

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Duluth Campus

Physical Education-Outdoor Education Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 13

The Physical Education-Outdoor Education minor is only available to Education students. It was designed to prepare Physical Education majors (B.A.Sc.) to teach students with active lifestyle outdoor pursuits in accordance with national standards that are taught in formal school (K-12) settings. However, this minor is appropriate for any student in an education major (K-12) who wishes to incorporate outdoor education into the formal school curriculum in a variety of contexts including physical education, sciences, or social studies. Students not majoring in Education but interested in outdoor education should consider the Environmental and Outdoor Education Minor.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Core (10 cr)

ENED 4163 - Outdoor Education Methods (3.0 cr)
ENED 4410 - Ropes Course Management (3.0 cr)

Outdoor Skills

ENED 1201 - Outdoor Skills I - Fall [PE] (2.0 cr)
or ENED 1202 - Outdoor Skills - Winter & Spring [PE] (2.0 cr)

Teaching Outdoor Skills

PETE 3505 - Teaching Outdoor Skills - Fall (2.0 cr)
or PETE 3507 - Teaching Outdoor Skills - Winter & Spring (2.0 cr)

Electives (3 cr)

Take 3 or more credit(s) from the following:

- ENED 3309 - Outdoor Leadership (1.0 cr)
- ENED 3310 - Outdoor Leadership Field Experience (2.0 cr)
- PE 1500 - Cross-Country Skiing [PE] (1.0 cr)
- PE 1507 - Introduction to River Kayaking [PE] (1.0 cr)
- PE 1508 - Flatwater Canoeing [PE] (1.0 cr)
- PE 1511 - Sea Kayaking (1.0 cr)
- PE 1512 - Fishing Skills [PE] (1.0 cr)
- PE 1530 - Rock Climbing [PE] (1.0 cr)
- PE 1531 - Intermediate Rock Climbing (1.0 cr)

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Duluth Campus

Psychology B.A.Sc.

Psychology

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 56 to 57
- The online major is designed to extend UMD's outreach by targeting students who would have a difficult time re-locating in order to earn a bachelor's degree. Likewise, there is a potential collaboration with the UM Crookston campus to provide an opportunity for students currently enrolled at that campus to earn a psychology degree.
- Degree: Bachelor of Applied Science

The bachelor of applied science (B.A.Sc.) in psychology provides students with a firm grounding in the methods, history, and content areas of the discipline. Students are prepared for graduate study leading to advanced degrees in psychology or for paraprofessional positions requiring some application of research or human service delivery skills. The core curriculum covers the research methods used in the scientific study of behavior, and surveys theories, findings, and historical applications in a variety of psychology subfields. Students apply their methodology training to a topic of their choice in a faculty-supervised independent research project during the design and methodology courses of the core curriculum. In addition, the core curriculum requires some exposure to the main areas of the discipline. Students also have the opportunity to focus their study toward either graduate training or paraprofessional employment through their selection of elective courses (recommended as "tracks"), independent studies, or internships. Students should consult with faculty advisors to select appropriate elective courses to meet their career goals.

Students may qualify for department, college, or University awards and scholarships. Please visit https://cehsp.d.umn.edu/students/scholarships. Students are encouraged to present their research findings at the Twin Ports Undergraduate Psychology Conference or the National Council for Undergraduate Research.

Distance Education - Many psychology courses are available online. An online major is available to students who have completed an associate degree or Minnesota Transfer Curriculum (MTC) or have verification of registration from a transfer institution where completing remaining credits for AA degree or MTC. The requirements for the online major are identical to those of the existing major but are structured to facilitate the delivery in the online medium. The online psychology major admits students every fall semester. Please call the Department of Psychology or visit the website at https://cehsp.d.umn.edu/departments-centers/psy for more information.

Honors Requirements: Senior students who have a minimum GPA of 3.80 within the psychology major and also have an overall GPA minimum of 3.00 may earn department psychology honors by doing one of the following: 1) complete an honors research project (PSY 3986) under the supervision of a psychology faculty member; 2) earn a grade of B or higher in a 5XXX-level psychology course; or 3) apply for and conduct a UROP (Undergraduate Research Opportunity Project) under the supervision of a psychology faculty member. Students must apply to the psychology department to be considered for departmental honors by the UMD deadline to apply for graduation in their final term. Students eligible for honors are urged to consult with their advisors or a psychology department faculty member on how they wish to pursue departmental honors before the end of their junior year.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)
- completely online (all program coursework can be completed online)

Admission Requirements

Students must complete 24 credits before admission to the program.

Freshmen students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students are admitted to UMD as pre--psychology majors. Pre--psychology majors who have an overall GPA of 2.50, a minimum of 24 completed credits, and have passed PSY 1003 -General Psychology or equivalent will be moved to full major status. Students with other declared majors who meet these requirements may declare psychology as a major by contacting the CEHSP Advising and Academic Services Office. Progress towards completion of degree requirements is continuously tracked by the UMD Registrar's APAS system. Pre-major students should utilize a What-if APAS Report as the official tool to see all requirements to degree completion for the

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Psychology major. To apply for admission to the online major, AA graduates from partner community colleges must have a 2.50 GPA or have completed their MNTC. To qualify for admission to the online program, students must have a passing grade in general psychology and in college algebra or a Math ACT score of 21 or higher.

Admissions are for fall only.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. 20 credits of PSY 3xxx or higher applied to the B.A.Sc. must be taken in residence at UMD.

2. A second field of student (e.g. minor, major, degree) or 18 additional 3xxx credits or higher outside the major is required.

3. Compliance with general regulations governing granting of degrees.

4. Students are strongly encouraged to take advanced writing before taking PSY 3021.

5. Students are encouraged to select at least 1 personal experience that fosters engagement with psychology: active membership in Psi Chi & Psychology Club; peer advisors; becoming a research and/or teaching assistant in cooperation with a psychology faculty member; applying for a UROP or conducting research or a project through guided independent study PSY 3994, 3986, 3989. Students can have a supervised internship experience in an organization PSY 3011, prereq 3010.

6. To qualify for admission to the online program, students who have completed an AA degree or MN Transfer Curriculum or have verification of registration from transfer institution where completing remaining credits. Students are admitted every fall semester.

Study abroad: psychology students may elect to study abroad using the many opportunities UMD offers. Information is available at www.d.umn.edu/ieo.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr).

Students are strongly encouraged to take advanced writing before taking PSY 3021.
WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

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or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Biology (4 - 5 cr)
BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
or BIOL 1170 - Human Biology [NAT SCI] (4.0 cr)

Core (31 - 36 cr)
Core A
Note: PSY 3020 or 5052, 3021, 3022 must be completed in sequence. PSY 2003, 3020 are prereqs for PSY 3021.
Lower Divison
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
PSY 2003 - Psychology: Discipline and Profession (1.0 cr)
Upper Division
PSY 3021 - Experimental Design and Methodology (4.0 cr)
PSY 3022 - Applied Methods and Measurement (4.0 cr)
PSY 3081 - History and Systems of Psychology (3.0 cr)
Statistics
PSY 3020 - Statistical Methods (4.0 cr)
or PSY 5052 - Advanced Statistics I (3.0 cr)
Core B
Take 2 or more course(s) from the following:
•PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
•PSY 3111 - Theories of Personality (3.0 cr)
•PSY 3121 - Abnormal Psychology (4.0 cr)
•PSY 3520 - Introduction to Industrial/Organizational Psychology (4.0 cr)
•PSY 3201 - Social Psychology (3.0 cr)
or PSY 5401 - Advanced Social Psychology (3.0 cr)
Core C
Take 2 or more course(s) from the following:
•PSY 3611 - Learning and Behavior (4.0 cr)
•PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
•PSY 3697 - Sensation and Perception (4.0 cr)
•**Cognition**
•PSY 3621 - Cognition (4.0 cr)
or PSY 5621 - Cognition and Emotion (3.0 cr)
•PSY 3061 - Physiological Psychology (4.0 cr)
or PSY 5631 - Biological Bases of Behavior (3.0 cr)

Electives (11 - 17 cr)
Combined with Core Requirements, students must take PSY 2xxx or higher to total 48 PSY credits The addition of 4 credits of Biology totals 52 major length in credits (53 if 5 credits of biology). PSY 2020 cannot be used towards this requirement. Recommended electives for areas of interest from the following:
Take 11 - 17 credit(s) including 0 or more sub-requirements(s) from the following:
Clinical/Counseling
Take 0 or more course(s) from the following:
•PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
•PSY 3111 - Theories of Personality (3.0 cr)
•PSY 3121 - Abnormal Psychology (4.0 cr)
•PSY 3122 - Child and Adolescent Abnormal Psychology (3.0 cr)
•PSY 3201 - Social Psychology (3.0 cr)
•PSY 3524 - Basic Helping Skills (4.0 cr)
•PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
•PSY 4121 - Foundations of Clinical Psychology (3.0 cr)
•PSY 4500 - Health Psychology (3.0 cr)
•PSY 5120 - Career and Lifestyle Development (2.0 cr)
•PSY 5121 - Psychopathology Over the Lifespan (3.0 cr)
•**Developmental**
Take 0 or more course(s) from the following:
•PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
•PSY 2023 - Marriages and Families Worldwide [LE CAT8, LEIP CAT08, GLOBAL PER] (4.0 cr)
•PSY 2223 - Gender in Society [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)
•PSY 3122 - Child and Adolescent Abnormal Psychology (3.0 cr)
•PSY 3215 - Topics in Human Sexuality (3.0 cr)
•PSY 3371 - Child and Adolescent Psychology (3.0 cr)
•PSY 3381 - Adult Development and Aging (3.0 cr)

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- PSY 3661 - Psychology of Language (3.0 cr)
- PSY 5021 - Advanced Developmental Psychology (3.0 cr)

•Experimental

Take 0 or more course(s) from the following:

- PSY 3061 - Physiological Psychology (4.0 cr)
- PSY 3201 - Social Psychology (3.0 cr)
- PSY 3231 - Psychology of Drug Use (3.0 cr)
- PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
- PSY 3621 - Cognition (4.0 cr)
- PSY 3661 - Psychology of Language (3.0 cr)
- PSY 3697 - Sensation and Perception (4.0 cr)
- PSY 5131 - Mind-Body Connection (3.0 cr)
- PSY 5155 - Forensic Psychology (3.0 cr)
- PSY 5401 - Advanced Social Psychology (3.0 cr)
- PSY 5621 - Cognition and Emotion (3.0 cr)
- PSY 5631 - Biological Bases of Behavior (3.0 cr)

•Human Services

Take 0 or more course(s) from the following:

- PSY 2023 - Marriages and Families Worldwide [LE CAT8, LEIP CAT08, GLOBAL PER] (4.0 cr)
- PSY 3010 - Internship Preparation (2.0 cr)
- PSY 3011 - Internship in Psychology (3.0 cr)
- PSY 3211 - Group Dynamics (3.0 cr)
- PSY 3524 - Basic Helping Skills (4.0 cr)
- PSY 3601 - Psychology of Personal Development (3.0 cr)

•Industrial/Organizational

Take 0 or more course(s) from the following:

- PSY 3010 - Internship Preparation (2.0 cr)
- PSY 3011 - Internship in Psychology (3.0 cr)
- PSY 3520 - Introduction to Industrial/Organizational Psychology (4.0 cr)
- PSY 3525 - Behavior Analysis in the Workplace (3.0 cr)
- PSY 3701 - Personnel Psychology (3.0 cr)

•Organizational Psychology

- PSY 3707 - Organizational Psychology (3.0 cr)

or PSY 5702 - Advanced Organizational Psychology (3.0 cr)

•Personnel Psychology

- PSY 3701 - Personnel Psychology (3.0 cr)

or PSY 5701 - Advanced Personnel Psychology (3.0 cr)

Program Sub-plans

A sub-plan is not required for this program.

Online Psychology Major

B.A.Sc. psychology major (only) in an online format. The remaining credits can be taken at another institution, which allows for great flexibility.

1. An online major is available to students who have completed an associate degree or Minnesota Transfer Curriculum (MTC) or have verification of registration from transfer institution where completing remaining credits for AA degree or MTC and assumes 59 credits completed before starting the online major.

2. The requirements for the online major are identical to those of the existing major but are structured to facilitate the delivery in the online medium.

3. Students are admitted every fall semester. Please call the Department of Psychology or visit the website at www.d.umn.edu/psy/ for more information.

4. The research methods courses are considered to be the capstone experience for the program. The research methods courses require students to design and conduct a study.

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Duluth Campus

Psychology Minor

Psychology

College of Education and Human Service Professions

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 26

The undergraduate minor in psychology provides students with a basic survey of psychological theories, content areas, and methodology.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students with a cumulative GPA of 2.50 may declare a psychology minor at any time.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Exit requirement: Minimum 2.00 (CEHSP requirement)

Psychology Minor Courses (7 - 8 cr)

PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
CSD 3010 - Introductory Statistics for the Behavioral Sciences (3.0 cr)
or ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or EXSC 4700 - Statistics and Research Methods in Exercise Science (4.0 cr)
or PSY 2020 - Introduction to Statistics and Research Methods (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or Other comparable courses as approved by department.

Group I (3-4 cr)

Choose one course:
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
or PSY 3081 - History and Systems of Psychology (3.0 cr)
or PSY 3111 - Theories of Personality (3.0 cr)
or PSY 3121 - Abnormal Psychology (4.0 cr)
or PSY 3201 - Social Psychology (3.0 cr)

Group II (4 cr)

Choose one course:
PSY 3061 - Physiological Psychology (4.0 cr)
or PSY 3611 - Learning and Behavior (4.0 cr)
or PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
or PSY 3621 - Cognition (4.0 cr)
or PSY 3697 - Sensation and Perception (4.0 cr)

Psychology Elective Courses (10-12 cr)

PSY courses 2xxx or higher so total equals 26 credits
PSY 2xxx
PSY 3xxx

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PSY 4xxx

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Duluth Campus

Public Health B.A.Sc.

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 68 to 84
- Degree: Bachelor of Applied Science

The bachelor of applied science (B.A.Sc.) in Public Health prepares graduates for careers in public health departments, government health agencies, voluntary health organizations, hospitals, corporate worksites, universities, and K-12 schools. Upper division students select an area of concentration in either Community Health Education/Promotion or School Health Education. Students will develop a range of skills that include planning, implementing, administering, and evaluating evidence-based health interventions that promote health and prevent disease.

Students should utilize a What-if APAS Report as the official tool to see all requirements to degree completion. Due to the complexity of the admission process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Freshman/transfer students are admitted to pre-major status. Students must select a concentration. Community Health Educ/Promotion students must apply to upper -division after completion of HLTH 1100/1470/1800 at a C- or better, maintaining U of M GPA of 2.0. Apply at z.umn.edu/umdpublichealthapply. School Health Educ students entering the Secondary Teacher Education Program (STEP) 5-12 licensure programs are bound by policies at the time of application. Admission is based on criteria established by the UMD Dept of Educ, consistent with policies established by MN Professional Educator Licensing & Standards Board (PELSB). Students must complete the following to be eligible for admission to Block courses: min 2.5 major & cumulative GPA, lower & upper division coursework with a grade of a C- or better, liberal ed requirements, advanced writing, & requirements outlined online at z.umn.edu/stepapplication. Applications are due the sixth Friday of the semester prior to starting Block 1.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A

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minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.

8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major or degree) is not required for this major.

2. Selection of either Community Health Education/Promotion or School Health Education concentration/subplan.

3. Public health majors with a concentration in Community Health Education/Promotion are expected to maintain a U of M GPA of 2.0, a major GPA (including transfer work) of 2.0 and obtain a grade of C- or better in all upper division (3xxx and 4xxx) HLTH courses. Public health majors with a concentration in School Health Education are expected to maintain a 2.5 GPA and obtain a grade of C- or better in all courses required in the major.

4. Meet with your assigned advisor at least one time each semester to ensure you are on track to program completion.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 31xx Adv Writing (3.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Community Health Education/Promotion

Required credits to graduate with this degree: 120
Required credits within the major: 68 - 72

Students who complete the B.A.Sc. in Public Health with a concentration in Community Health Education/Promotion will be trained to educate and promote health for individuals and groups through their work in public health departments, government health agencies, voluntary health organizations, hospitals, corporate worksites, and universities. This concentration prepares students to sit for the national Certified Health Education Specialist exam and to apply the Areas of Responsibility for the Health Education Specialist in community settings.

Exit Standards: Students with the Community Health Education/Promotion concentration must maintain a U of M GPA of 2.0 overall, a major GPA (including transfer work) of 2.0, and obtain a grade of C- or better in all HLTH courses. The capstone experience, which is typically completed during the senior year, provides students the opportunity for real-world hands-on experience with people and situations they may encounter as a beginning public health professional.

Students who declare this concentration will be considered pre-public health majors until they complete HLTH 1100, HLTH 1470, and HLTH 1800 at a C- or better, while maintaining a U of M GPA of 2.0.
When students have met this requirement, they must apply for admission to upper division at http://z.umn.edu/umdpublichealthapply. This will move a students status from pre-public health to Public Health B.A.Sc.

Biology (4 - 5 cr)

BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
or BIOL 1170 - Human Biology [NAT SCI] (4.0 cr)

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Health Science Terminology (2 - 3 cr)
HLTH 1104 - Health Science Terminology (3.0 cr)
or PHAR 1002 - Medical Terminology (2.0 cr)
Statistics (3 - 4 cr)
STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or PSY 2020 - Introduction to Statistics and Research Methods (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
Pre-Public Health Core (9 cr)
After completion of these courses, students may apply to upper division.
HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
HLTH 1800 - Introduction to Public Health [SOC SCI] (3.0 cr)
Public Health Core 18 cr)
HLTH 2200 - Research and Evaluation in Health Science (3.0 cr)
HLTH 2800 - Foundations of Public Health (3.0 cr)
HLTH 3000 - Program Administration in Public Health (3.0 cr)
HLTH 3116 - Principles of Epidemiology and Human Disease (3.0 cr)
HLTH 3500 - Environmental Health (3.0 cr)
HLTH 3115 - Consumer Health Education (3.0 cr)
or HLTH 4120 - Holistic Health and Healing (3.0 cr)
Community Health Core (22 - 23 cr)
HLTH 2900 - Professional Preparation in Public Health (3.0 cr)
HLTH 3300 - Public Health Communication (4.0 cr)
HLTH 3303 - Planning Community Health Interventions (3.0 cr)
HLTH 3305 - Community Health Methods (4.0 cr)
HLTH 3400 - Facilitating Healthy Lifestyle Change (3.0 cr)
HLTH 3117 - Principles of Sex Education (3.0 cr)
or HLTH 3118 - Women's Health Issues (3.0 cr)
or HLTH 3119 - Arts in Public and Community Health (3.0 cr)
or HLTH 3202 - Drug Education (2.0 cr)
or HLTH 3307 - Conducting and Managing Worksite Health Promotion Programs (3.0 cr)
or HLTH 3341 - Encountering Death and Grief: A Cross-Cultural Journey [CDIVERSITY] (3.0 cr)
HLTH 4100 - Historical Perspectives of Community Health Through Culture & Art in Italy [GLOBAL PER] (3.0 cr)
or HLTH 4700 - Global Health (3.0 cr)
or HLTH 4710 - Grant Development and Writing in the Social Sciences (3.0 cr)
Internship (6 cr)
Take 6 or more credit(s) from the following:
•HLTH 4996 - Internship in Health Education (1.0 - 15.0 cr)

School Health Education

Required credits to graduate with this degree: 120
Required credits to within this major: 83 - 84

Students who graduate with a B.A.Sc. in Public Health with a concentration in school health education are qualified to teach K-12 health curriculum in Minnesota school systems. A school health educator improves the health literacy and health behaviors of young people through education about health and wellness topics, such as exercise, nutrition, stress, personal growth, and safety. The concentration aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for Health Education in grades K-12 in Minnesota.

1. Students are to make satisfactory progress each semester, including grades of C- or better in all courses required in the major & successfully achieve all standards aligned with assignments in each course.
2. Maintain a minimum 2.5 cumulative & major GPA.
3. Demonstrate acceptable professional performance, including dispositions & teaching skills, in clinical experiences; candidate proficiency is assessed throughout teacher preparation courses by University faculty, University supervisors, & the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, & dispositions are aligned to institutional and standards for all clinical experiences.
4. Abide by the MN PELSB & UMD Dept. of Educ Code of Ethics.
5. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
6. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at:

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https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
7. Seek out advising each term with assigned advisor throughout college career to ensure you are on track for program completion.
8. Adhere to university policies regarding attendance; & in addition to the above expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
9. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor & the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, & meet the required GPA in the major to be eligible for student teaching.
10. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept of Educ graduate exit survey, and successful completion of all tests required.

Lower Division Core (17 cr)
HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
HLTH 1600 - Basic First Aid and CPR (2.0 cr)
HLTH 1800 - Introduction to Public Health [SOC SCI] (3.0 cr)
HLTH 2800 - Foundations of Public Health (3.0 cr)
PETE 2400 - Applied Exercise Science (3.0 cr)
Courses from Other Programs (8 - 9 cr)
Biology
BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
Psychology
PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
Upper Division Core (8 cr)
Any other courses not aligned with standard need an APAS exception on file for school health concentration.
HLTH 3202 - Drug Education (2.0 cr)
HLTH 3115 - Consumer Health Education (3.0 cr)
or HLTH 3118 - Women's Health Issues (3.0 cr)
HLTH 3117 - Principles of Sex Education (3.0 cr)
or PSY 3215 - Topics in Human Sexuality (3.0 cr)
School Health Concentration (46 cr)
Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed FALL ONLY for SPRING SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks. Physical Education & School Health Education double majors should consult their advisor before beginning the Block coursework.
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
EDUC 3412 - The Computer in Education (4.0 cr)
HLTH 3302 - School Health Education Methods and Materials (3.0 cr)
Block I (12 cr)
Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings. Physical Education & School Health Education double majors please consult your advisor.
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)
Block II (11 cr)
All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of this semester. Course deficiencies on Program Clearance must be addressed with advisor. Block 2 is the time to take the MTLE Content exams. Following the completion of Block 2 prior to starting Block 3 take MTLE Pedagogy exams. Physical Education & School Health Education double majors please consult your advisor.
EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
Block III (13 cr)
Courses must be taken concurrently. Liability insurance & approved background check must be complete. Students must have grades of C- or better, meet the required GPA in the major, & complete at least 85% of teaching courses to be eligible for student teaching. Students must register for EDSE 4600 for 12 cr & complete & submit the edTPA for scoring as outlined in the course requirements of EDSE 4600. Physical Education & School Health Education double majors please consult your advisor.
EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

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Duluth Campus

Public Health Minor

D Applied Human Sciences

College of Education and Human Service Professions

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 20 to 21

Students with other majors who have a strong interest in public health may choose to complete this minor. The coursework covers health content that would be applicable to various employment settings.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.00 already admitted to the degree-granting college
- 2.00 transferring from another University of Minnesota college
- 2.00 transferring from outside the University

Admission into the Public Health minor requires a minimum University of Minnesota 2.0 GPA. Contact the Department of Applied Human Sciences for more details.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

At least 12 credits of HLTH courses applied to the minor must be taken from UMD.

Core (9 cr)

HLTH 1100 - Health and Wellness Strategies for Life [LE CAT8, SUSTAIN] (3.0 cr)
HLTH 1470 - Human Nutrition [LE CAT, NAT SCI] (3.0 cr)
HLTH 1800 - Introduction to Public Health [SOC SCI] (3.0 cr)

Competency Development Electives (11 -12 cr)

Take 4 or more course(s) from the following:

- HLTH 3116 - Principles of Epidemiology and Human Disease (3.0 cr)
- HLTH 3118 - Women's Health Issues (3.0 cr)
- HLTH 3119 - Arts in Public and Community Health (3.0 cr)
- HLTH 3202 - Drug Education (2.0 cr)
- HLTH 3307 - Conducting and Managing Worksite Health Promotion Programs (3.0 cr)
- HLTH 3341 - Encountering Death and Grief: A Cross-Cultural Journey [CDIVERSITY] (3.0 cr)
- HLTH 3500 - Environmental Health (3.0 cr)
- HLTH 4100 - Historical Perspectives of Community Health Through Culture & Art in Italy [GLOBAL PER] (3.0 cr)
- HLTH 4700 - Global Health (3.0 cr)
- HLTH 4710 - Grant Development and Writing in the Social Sciences (3.0 cr)
- HLTH 3115 - Consumer Health Education (3.0 cr)
  or HLTH 4120 - Holistic Health and Healing (3.0 cr)
- HLTH 3117 - Principles of Sex Education (3.0 cr)
  or PSY 3215 - Topics in Human Sexuality (3.0 cr)
- HLTH 1104 - Health Science Terminology (3.0 cr)
  or PHAR 1002 - Medical Terminology (2.0 cr)

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Duluth Campus

Social Work B.S.W.

Social Work

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 82 to 83
- Degree: Bachelor of Social Work

The bachelor of social work (BSW) program prepares students for generalist practice in a variety of human service settings. Graduates undertake a variety of professional social work roles ranging from counselor and case manager to community organizer and advocate. The curriculum has a special focus on services to American Indians and their communities

Freshman, sophomores, and transfer students may declare a SW major and be admitted to lower division status. Admission to the upper division BSW program is competitive. To be considered, students must be eligible and complete the BSW Application forms and essays. See https://cehsp.d.umn.edu/departments-centers/departments/social-work/bsw for more information.

Honors Requirements: Senior students who have a minimum GPA of 3.90 within the social work major and also have an overall GPA minimum of 3.50 may earn department social work honors by doing one of the following: An Undergraduate Research Opportunity Project (UROP) under the supervision of a social work faculty member or passing a 5xxx level Social Work course with a grade of B+ or better. To receive department honors in social work, students need to have satisfied all the requirements or department honors the term prior to graduation. Student eligible for honors are urged to consult with their advisors on how they wish to pursue department honors before the end of their junior year. Students must apply to the social work department to be considered for departmental honors by the UMD deadline to apply for graduation in their final term.

Program Delivery

This program is available:

- partially online (between 50% to 80% of instruction is online)

Admission Requirements

Students must complete 30 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Evidence of engagement in community service or volunteer work.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-Major (15 cr)

A grade of C or better is required in all Pre-Major Admission reqiured courses.

PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
SOC 1101 - Introduction to Sociology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
SW 1000 - Introduction to Social Welfare [SOC SCI] (3.0 cr)
BIOL 1001 - Biology and Society [LE CAT4, NAT SCI, SUSTAIN] (4.0 cr)
or BIOL 1170 - Human Biology [NAT SCI] (4.0 cr)
or PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

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General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required with this major.

Advanced Writing (3 cr)

WRIT 31xx - Adv Writ (3 cr)

Core (30 cr)

Students are required to have a C+ or higher in core courses to advance to next semesters' core courses.
SW 1619 - Race, Class, and Gender in the United States [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
SW 4100 - Anti-Oppressive Social Work Practice (3.0 cr)
SW 4101 - Human Behavior in Social Environment (3.0 cr)
SW 4102 - Introduction to Social Work Research (3.0 cr)
SW 4103 - Senior Capstone Project (2.0 cr)
SW 4104 - Social Work Practice with Individuals and Families (3.0 cr)
SW 4105 - Social Work Practice with Groups (3.0 cr)
SW 4112 - Organization and Community Practice (3.0 cr)
SW 4120 - Community Volunteer Experience (1.0 cr)
SW 4190 - American Indian Social Work Practice Issues (3.0 cr)
SW 4201 - Social Welfare Policy (3.0 cr)

Field Placement (10 cr)

SW 4121 must be taken for 10 credits, 5 credits each semester. Students are required to have a C+ or higher in core courses to advance to next semesters' core courses.
SW 4121 - Senior Field Placement (5.0 cr)

Statistics (3 - 4 cr)

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 2020 - Introduction to Statistics and Research Methods (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or Other comparable as approved

Social Work Electives (9 cr)

Other classes may be used with permission of advisor.
Take 9 or more credit(s) from the following:
- SW 1210 - Global Issues [LE CAT, SOC SCI, GLOBAL PER] (3.0 cr)
- SW 4113 - Introduction to Child Welfare Practice (3.0 cr)
- SW 4500 - Healthcare, Social Work, and Interdisciplinary Care (3.0 cr)

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- SW 5091 - Independent Study (1.0 - 4.0 cr)
- SW 5095 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
- SW 5096 - Special Project (1.0 - 4.0 cr)
- SW 5111 - Grant Writing in the Human Services (3.0 cr)
- SW 4051 - School Social Work (3.0 cr)
  or SW 5051 - School Social Work (3.0 cr)
- SW 4122 - Cross-Cultural Exploration Through Learning Circles (1.0 cr)
  or SW 5120 - Cross-Cultural Exploration Through Learning Circles (1.0 cr)
- SW 4144 - Grief, Loss and Coping (3.0 cr)
  or SW 5144 - Grief, Loss and Coping in Social Work Practice (3.0 cr)
- SW 4215 - Trauma Informed Practice with Children and Adolescents (3.0 cr)
  or SW 5215 - Trauma Informed Social Work Practice with Children and Adolescents (3.0 cr)
- SW 4222 - Intervention in Family Violence (3.0 cr)
  or SW 5222 - Intervention in Family Violence (3.0 cr)
- SW 4271 - Women and Social Policy (3.0 cr)
  or SW 5271 - Women and Social Policy (3.0 cr)
- SW 4280 - Substance Use trends and Interventions in Social Work [SOC SCI] (3.0 cr)
  or SW 5280 - Substance Use Trends and Interventions in Social Work (3.0 cr)

Non Social Work Electives (11 cr)

Other classes may be used with permission of advisor.
Take 11 or more credit(s) from the following:

- AAAS 1104 - Introduction to Black America [CDIVERSITY] (3.0 cr)
- AMIN 1001 - Introduction to American Indian Studies [CDIVERSITY] (3.0 cr)
- AMIN 1010 - American Indian Experience to 1900 [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
- AMIN 1020 - American Indian Experiences: 1900-present [LE CAT, LECD C, HUMANITIES, CDIVERSITY] (3.0 cr)
- AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
- AMIN 2405 - American Indian Families and Society [LE CAT, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3206 - Federal Indian Policy [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 4230 - Introduction to Federal Indian Law [SOC SCI, CDIVERSITY] (3.0 cr)
- ANTH 1080 - Understanding Global Cultures [LE CAT, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
- ANTH 1620 - Introduction to Public Culture: Earth Citizenship, Science, and Culture [GLOBAL PER] (4.0 cr)
- ANTH 3156 - Digital and Participatory Research Methods (4.0 cr)
- ANTH 3300 - Energy, Culture and Society [GLOBAL PER] (4.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 4500 - The New Commons: Governing Shared Resources for Present and Future Generations [SUSTAIN] (4.0 cr)
- ANTH 4616 - Culture and Personality (3.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ASL 4110 - Deaf Culture (3.0 cr)
- COMM 1000 - Human Communication Theory [LE CAT, SOC SCI] (3.0 cr)
- COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
- COMM 3205 - Relationship Communication (3.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- CRIM 1301 - Introduction to Criminology [LE CAT8, SOC SCI] (4.0 cr)
- CRIM 3322 - Law and Society (3.0 cr)
- CRIM 3324 - Sociology of Criminal Law (3.0 cr)
- CRIM 3375 - Restorative Justice (3.0 cr)
- CRIM 4323 - Women and Justice (3.0 cr)
- CRIM 4340 - Racial Inequality and Criminalization (3.0 cr)
- CRIM 4382 - Victimology (3.0 cr)
- ECH 2010 - Foundational Issues in Early Childhood Studies (3.0 cr)
- ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
- EDUC 1100 - Human Diversity [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
- EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
- EDUC 3340 - Interacting with Diverse Families (3.0 cr)
- EDUC 5340 - Interacting With Diverse Families (3.0 cr)
- GEOG 2305 - Geography of Cultural Diversity [CDIVERSITY] (3.0 cr)
- PHIL 1007 - Philosophy and World Religions [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (3.0 cr)
- POL 3040 - Women and Politics (3.0 cr)
- PSY 2023 - Marriages and Families Worldwide [LE CAT8, LEIP CAT08, GLOBAL PER] (4.0 cr)
- PSY 2223 - Gender in Society [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)
- PSY 3051 - Cross-cultural Psychology (3.0 cr)
- PSY 3111 - Theories of Personality (3.0 cr)

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- PSY 3121 - Abnormal Psychology (4.0 cr)
- PSY 3122 - Child and Adolescent Abnormal Psychology (3.0 cr)
- PSY 3201 - Social Psychology (3.0 cr)
- PSY 3211 - Group Dynamics (3.0 cr)
- PSY 3215 - Topics in Human Sexuality (3.0 cr)
- PSY 3231 - Psychology of Drug Use (3.0 cr)
- PSY 3371 - Child and Adolescent Psychology (3.0 cr)
- PSY 3381 - Adult Development and Aging (3.0 cr)
- SOC 1201 - Sociology of the Family [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- SOC 3330 - The U.S. Civil Rights Movement [SOC SCI, CDIVERSITY] (3.0 cr)
- SOC 3701 - Social Psychology [SOC SCI] (3.0 cr)
- SOC 3821 - Sociology of Community (3.0 cr)
- SOC 3831 - Organizations and Society (4.0 cr)
- SOC 3901 - Social Change and Social Policy (3.0 cr)
- SOC 3945 - Social Stratification (3.0 cr)
- SOC 4370 - Sociology of Mental Health and Illness (3.0 cr)
- SOC 4925 - Sociology of Rape (3.0 cr)
- SOC 4935 - Peace Studies (3.0 cr)
- SOC 4947 - Sociology of Gender (3.0 cr)
- SOC 4949 - Race and Ethnic Relations (3.0 cr)
- SOC 4981 - Social Movements, Protest and Change (4.0 cr)
- SOC 4982 - Political Sociology and the Global Economy (4.0 cr)
- SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)
- SPED 4250 - Foundations of Autism Spectrum Disorders (3.0 cr)
- SSP 3014 - Financial Peer Mentor Leadership Training (2.0 cr)
- WS 1000 - Introduction to Women's and Gender Studies [LE CAT, LECD C, CULT D, SOC SCI, CDIVERSITY] (3.0 cr)
- WS 2001 - Introduction to Lesbian Gay Bisexual and Transgender Studies [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)
- WS 2101 - Women, Race, and Class [LE CAT8, LECD CAT08, SOC SCI, CDIVERSITY] (3.0 cr)
- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3150 - Women-Identified Culture [CDIVERSITY] (3.0 cr)
- WS 3350 - Women and the Law [CDIVERSITY] (3.0 cr)
- WS 3450 - Motherhood and Mothering: Institution and Experience (3.0 cr)
- WS 3775 - Gender, Globalization and Food [SUSTAIN] (3.0 cr)
- WS 3800 - Feminist Activism and Community Organizing (4.0 cr)

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Duluth Campus

Special Education Minor

Education

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

Courses for the special education minor apply toward but do not complete K-12 special education licensure requirements. Remaining courses can be taken on a postbaccalaureate contract.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (18 cr)

SPED 4204 - Assessment in the General and Special Education Classroom (4.0 cr)
SPED 4381 - Classroom and Behavior Management (4.0 cr)
SPED 4433 - Foundations in Special Education (3.0 cr)
SPED 4435 - Parent and Professional Communication and Collaboration (4.0 cr)
SPED 4452 - Academic Interventions for Students with Disabilities (3.0 cr)

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Duluth Campus

Teaching Communication Arts and Literature B.A.A.

Education, English

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 95
- Degree: Bachelor of Applied Arts

The Bachelor of Applied Arts (B.A.A.) degree in Teaching Communication Arts and Literature prepares students to teach Communication Arts and Literature (Grades 5-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for Communication Arts and Literature in grades 5-12 in Minnesota. The B.A.A. in teaching communication arts/literature is offered by the Department of Education in conjunction with the Department of English, Linguistics and Writing Studies and the Department of Communication. This program is required for students seeking teacher licensure as Minnesota Communication Arts and Literature teachers for grades 5 through 12.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the STEP (5-12)licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of a C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can only be completed fall semesters for spring semester entry into Block I. See advisor if out of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Lower Division Core (20 cr)

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
ENGL 1582 - Introduction to World Literatures [LE CAT, HUMANITIES, GLOBAL PER] (4.0 cr)
ENGL 2906 - Methods of Literary Study (4.0 cr)
LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)

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Upper Division Core (14 cr)
Students must make satisfactory academic progress and demonstrate acceptable professional performance in field experience.
Students must have personal liability insurance while they are working in field placement settings.
EDUC 3412 - The Computer in Education (4.0 cr)
ENGL 4802 - English Language for Educators (4.0 cr)
ENGL 4902 - Teaching Writing (4.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

English Literature Survey and Period Courses (16 cr)
Take 4 or more course(s) totaling 16 or more credit(s) from the following:
American Literature Survey
American Literature II, ENGL 3564, can be taken without having taken American Literature I, ENGL 3563.
Take 1 - 2 course(s) from the following:
•ENGL 3563 - American Literature I [HUMANITIES, CDIVERSITY] (4.0 cr)
•ENGL 3564 - American Literature II [HUMANITIES, CDIVERSITY] (4.0 cr)
•ENGL 3573 - Survey of African American Literature [HUMANITIES, CDIVERSITY] (4.0 cr)
•British Literature Survey
British Literature II, ENGL 3502, can be taken without having taken British Literature I, ENGL 3501.
Take 1 - 2 course(s) from the following:
•ENGL 3501 - British Literature I [HUMANITIES] (4.0 cr)
•ENGL 3502 - British Literature II [HUMANITIES] (4.0 cr)
•Early Period Literature
Take 0 - 1 course(s) from the following:
•ENGL 3223 - Shakespeare [LE CAT, HUMANITIES] (4.0 cr)
•ENGL 4222 - Shakespeare (4.0 cr)
•ENGL 4295 - Special Topics in Early Period Literature (Various Titles to be Assigned) (4.0 cr)
•ENGL 4312 - Chaucer (4.0 cr)
•ENGL 4533 - Studies in English Literature Before 1800 (4.0 cr)
•ENGL 4541 - Restoration and 18th-Century Literature (4.0 cr)
•ENGL 4572 - American Renaissance (4.0 cr)
•ENGL 4574 - Studies in American Literature to 1914 (4.0 cr)
•ENGL 4661 - Publishing the Middle Ages (4.0 cr)
•ENGL 4662 - The Making of a Major Author: The Scholarly Edition in 17th- and 18th-Century England (4.0 cr)
•Later Period Literature
Take 0 - 1 course(s) from the following:
•ENGL 3574 - Reconstituting the Past in African Diaspora Literature (4.0 cr)
•ENGL 4395 - Special Topics in Late-Period Literature (various titles to be assigned) (4.0 cr)
•ENGL 4562 - Studies in 19th-Century British Literature (4.0 cr)
•ENGL 4564 - Studies in British Literature after 1900 (4.0 cr)
•ENGL 4575 - Studies in American Literature after 1914 (4.0 cr)
•ENGL 4584 - Mapping Postcolonial Literature (4.0 cr)
•ENGL 4663 - Readers and the History of Books (4.0 cr)
•ENGL 4665 - The American Literary Marketplace (4.0 cr)

Elective (3 cr)
Upper division WRIT, LING, COMM course may be counted if relevant to licensure content area, but will not count toward the English major; consult advisor. This excludes ENGL 4802, 4902, 4909, 4922, and 4931.

Take 3 or more credit(s) from the following:
•ENGL 4xxx

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through

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courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.

6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

Block Requirements (41 cr)

Application for admission can be completed FALL ONLY for SPRING SEMESTER ENTRY INTO BLOCK 1. Application for admission to the blocks must be submitted by the 6th Friday of the fall semester. Applications are available online at: https://z.umn.edu/stepapplication. Application must be completed the semester prior to starting the blocks.

Block I (16 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings. Consult advisor for additional upper division English courses.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4215 - Teaching Reading and Literature: Grades 5-12 (4.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (12 cr)

All courses must be taken concurrently. Liability insurance and approved background check must be complete. Application for student teaching due 4th Friday of this semester. Course deficiencies on Program Clearance Summary form must be addressed with advisor. Block 2 is the time to take MTLE Content exams. Immediately following the completion of Block 2 prior to starting Block 3 take MTLE Pedagogy exams. Students majoring in English should also register for ENGL 4909 at this time.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

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ENGL 4922 - Teaching Communication Arts and Literature (4.0 cr)

Block 3 (13 cr)

Take all courses concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Students must have course deficiencies on Program Clearance Summary cleared, have grades of C- or better in all required courses, meet required GPA, complete at least 85% of teaching major courses, have personal liability insurance and approved background check. Take EDSE 4600 for 12 cr and complete and submit the edTPA for scoring as outlined in EDSE 4600.

EDUC 4500 - Professional Issues and Ethics (1.0 cr)

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)

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Duluth Campus

Teaching Earth and Space Science B.A.Sc.

D Earth & Environmental Sci, Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 130 to 161
- Required credits within the major: 112 to 143
- This program is 9 terms (4½ years) long.
- This program requires summer terms.
- Degree: Bachelor of Applied Science

The Bachelors of Applied Sciences (B.A.Sc.) degree in Teaching Earth and Space Science prepares students to teach General Science (grades 5-8) and Earth & Space Science (grades 9-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for General Science in grades 5-8 and Earth & Space Sciences in grades 9-12 in Minnesota. The B.A.Sc. in Teaching Earth and Space Sciences is offered by the Department of Education in conjunction with the Department of Geological Sciences. This major is for students who plan to teach all science areas in grades 5 through 8 and teach earth and space sciences in grades 9 through 12. Students have the option of also completing the environmental education emphasis with this major. This emphasis enhances the student's major by integrating environmental education into formal (pre-K-12), as well as nonformal education settings such as parks and nature centers. A student in this emphasis must meet the same GPA requirements as for the major.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the Blocks process, students are strong encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion,

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the Secondary STEP (5-12) & (K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of a C- or better. Liberal education requirements, advanced writing and all requirements outline at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block 1. Application for admission can only be completed spring semester for fall semester entry into Block I. See advisor if out of sequence. Additionally, refer to the major sub-plans. These courses are additional admission requirements to the degree program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

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WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Lower Division Core (55 - 56 cr)

Astronomy
AST 1040 - Introductory Astronomy [LE CAT, NAT SCI] (3.0 cr)

Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)

Chemistry
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
CHEM 1114 - Introduction to General, Organic, and Biological Chemistry II (5.0 cr)

Education
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)

Earth Science
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
EES 2311 - Mineralogy (4.0 cr)

Mathematics
MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)

Physics
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
PHYS 1002 - Introduction to Physics II (5.0 cr)

Additional Earth Science
EES 2010 - Surface Processes (4.0 cr)
or EES 2120 - The Earth's Dynamic Interior (3.0 cr)

Upper Division Core (12 cr)
EDUC 3412 - The Computer in Education (4.0 cr)
EDUC 4234 - Science, Technology, and Society [SUSTAIN] (3.0 cr)
HLTH 3202 - Drug Education (2.0 cr)
EES 3301 - Meteorology and Climatology for the Earth Sciences (3.0 cr)
or GEOG 3401 - Weather and Climate (3.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate

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proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

For students not choosing to complete the optional subplan:
Required credits to graduate with this degree: 130 - 131
Required credits within the major: 112 - 113

Block Requirements (41 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block I (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent).
Students must have personal liability insurance and approved background check while in field placement settings.
EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (16 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application. Block 2 is the time to take the MTLE Content exams. Following the completion of Block 2 prior to starting Block 3 take the MTLE Pedagogy exams. EDSE 4255 and GEOL 4110 offered spring only. Consult advisor for additional upper division science courses.
EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4255 - Teaching Science: Grades 5-12 (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
EDUC 4110 - Advanced Earth Science for Teachers (2.0 cr)

Block 3 (13 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to be eligible for student teaching. EDSE 4600 (register for 12 cr) Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.
EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Program Sub-plans

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A sub-plan is not required for this program.

Environmental Education

For students choosing to complete the optional subplan:
Required credits to graduate with this degree: 160 - 161
Required credits within the major: 142 - 143

This emphasis enhances the student's major by integrating environmental education into formal (pre-K-12), as well as nonformal education settings such as parks and nature centers.

A student in this emphasis must meet the same GPA requirements as for the major. The emphasis is noted on the student's diploma. The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Environmental Education Core (24 cr)

ENED 3309 - Outdoor Leadership (1.0 cr)
ENED 3310 - Outdoor Leadership Field Experience (2.0 cr)
ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
ENED 4163 - Outdoor Education Methods (3.0 cr)
HLTH 1700 - First Responder (3.0 cr)
PETE 3507 - Teaching Outdoor Skills - Winter & Spring (2.0 cr)
ENED 1203 - Outdoor Skills I (2.0 cr)
ENED 1204 - Outdoor Skills II (2.0 cr)
ENED 4997 - Recreation Practicum (3.0 cr)

Electives (6 cr)

Pre-approved natural science courses may be substituted.
Take 6 or more credit(s) from the following:

- ES 2803 - Issues in Global Ecology [LE CAT] (3.0 cr)
- BIOL 3603 - Plant Taxonomy (3.0 cr)
- BIOL 4731 - Entomology (3.0 cr)
- BIOL 4761 - Ichthyology (3.0 cr)
- BIOL 4763 - Ornithology (3.0 cr)
- BIOL 5833 - Stream Ecology (3.0 cr)
- BIOL 5861 - Lake Ecology (3.0 cr)
- ENED 5325 - Sustainability Issues Investigation (2.0 cr)
- EES 5210 - Glacial and Quaternary Geology (4.0 cr)

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Duluth Campus

Teaching English as a Foreign Language Certificate

Education

College of Education and Human Service Professions

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 12

This certificate program is designed for any degree-seeking students or community members interested in teaching English overseas with a particular focus on the theory and methodology of teaching English as a foreign language. An undergraduate degree and Teaching English as a Foreign Language (TEFL) Certificate are often considered minimum requirements to obtain paid English teaching positions abroad. The program covers a comprehensive range of teaching skills to make effective English language teachers by offering opportunities to learn through interactive skill-building activities. Students have the chance to observe experienced TEFL teachers in the classroom, and the program also includes a practicum/hands-on element with practical in-class exposure that schools abroad are looking for in a teacher. The minimum standard for internationally recognized certification is 100 hours of instruction and 6 20 hours of supervised practice, and this certificate meets that standard. Students learn the communicative approach based on the latest research in language learning, create their own teaching materials, and learn to teach speaking, listening, reading and writing. They also develop an effective classroom management style, review English grammar, and delve into cross-cultural issues.

Program Delivery

This program is available:

- primarily online (at least 80% of the instruction for the program is online with short, intensive periods of face-to-face coursework)

Admission Requirements

Students must complete 30 credits before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Requirements (12 cr)

EDUC 3100 - Bilingualism & Biliteracy Development: Foundations of Second Language Acquisition (3.0 cr)
EDUC 3211 - Methods in Teaching Multilingual Students (3.0 cr)
EDUC 3330 - Assessment of Language Development (3.0 cr)
EDUC 4050 - Language Policy and Education (2.0 cr)
EDUC 4099 - Teaching English to Speakers of Other Languages/Teaching English Foreign Language Field Experience (1.0 cr)

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Duluth Campus

Teaching English to Speakers of Other Languages and Multilingual Education Minor

Education

College of Education and Human Service Professions

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 21

This minor targets individuals interested in supporting the academic success of English learners and multilingual students in mainstream classrooms as well as in bilingual and immersion education programs. The minor focuses on the theory and methodology of content-based language instruction, equipping teacher candidates with the skills they need to balance the teaching of language and content. It is also appropriate for students outside of education who are interested in applied linguistics.

This program covers the relationship between language, culture, and identity and how it affects classroom dynamics. Students in this minor are exposed to current research on second language acquisition and apply these theories to curriculum and lesson planning. They learn how to teach academic language with appropriate scaffolding and meaningful content. Because teachers in mainstream classrooms and immersion education are responsible for teaching language in addition to subject matter, students in this minor learn how to assess language skills in speaking, listening, reading and writing, and how to communicate progress to parents. Furthermore, students explore language policy in education while learning about different models of bilingual and immersion education both in the United States and abroad. Abundant practical teaching and learning opportunities are provided, preparing for real-life classrooms with English learners and multilingual students.

There are increasing numbers of English learners in American classrooms, and while many start their schooling with English language specialists, they are also found in regular classrooms, placing a responsibility on all teachers to know how to effectively teach these students and support their language development. Teacher candidates who possess knowledge of language acquisition and culturally responsive teaching are in a better position to support multilingual students and advocate for their needs. There is also an increased desire for immersion education teachers in the United States as schools struggle to employ teachers who have a license and language skills. This minor helps make teacher candidates more employable in the field.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 30 credits before admission to the program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Core (14 cr)

EDUC 3100 - Bilingualism & Biliteracy Development: Foundations of Second Language Acquisition (3.0 cr)
EDUC 3211 - Methods in Teaching Multilingual Students (3.0 cr)
EDUC 3330 - Assessment of Language Development (3.0 cr)
EDUC 4050 - Language Policy and Education (2.0 cr)
LING 1811 - Introduction to Linguistics [LE CAT2, LOGIC & QR] (3.0 cr)

Electives (6 cr)

Take 6 or more credit(s) from the following:

- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- CSD 3131 - Language Development (4.0 cr)
- EDUC 4040 - World Language Teaching Methods (4.0 cr)
- LING 2101 - Phonetics and Phonology [NAT SCI] (3.0 cr)
- LING 2600 - Language in Society [SOC SCI, CDIVERSITY] (3.0 cr)
- LING 3103 - Semantics and Pragmatics (3.0 cr)
- LING 4104 - Corpus Linguistics (3.0 cr)
- Any 3xxx or 4xxx level course in Chinese, French, German, or Spanish Studies (4 credit maximum)

Field Experience (1 cr)

EDUC 4099 - Teaching English to Speakers of Other Languages/Teaching English Foreign Language Field Experience (1.0 cr)

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Duluth Campus

Teaching French B.A.A.

World Languages & Cultures, Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 89
- Degree: Bachelor of Applied Arts

The bachelors of applied arts (B.A.A.) degree in teaching French prepares students to teach French (Grades K-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for French in grades K-12 in Minnesota. The B.A.A. in teaching French is offered through the Department of Education, in conjunction with the Department of World Languages and Cultures. This major prepares students for licensure as a French teacher from kindergarten through grade 12. NOTE: Students pursuing both the French Studies BA and Teaching French BAA must satisfactorily complete 12 non-overlapping upper division credits of French electives beyond the requirements for both degrees.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the Secondary STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing, and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can be only completed spring semester for fall entry into Block I. See advisor if out of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Lower Division Core (19 cr)

Students may be exempted from part of the lower division requirements if they have previously completed French language coursework; Dept of World Languages and Cultures (DWLC) determines exemptions based on acceptance of transfer credit & work done. Exemption does not necessarily carry credits towards the 120 cr needed for graduation. Students may view course placement

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information on the DWLC website. It is recommended students take LING 1811 for Liberal Education Logic and Quantitative Reason.
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

Upper Division Core (6 cr)
By second semester, sophomore year, students start upper division requirements and plan for application to the secondary teacher education program (STEP).
EDUC 3412 - The Computer in Education (4.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

French Electives (20 cr)
Some French courses may be transferred from another college or earned abroad, but at least two courses must be taken at University of Minnesota Duluth or a UMD affiliated study abroad program where credit counts as coursework at UMD. Oral Proficiency Exam must be completed prior to student teaching.
Any FR courses may be taken with advisor approval prior to enrollment.
Take 20 or more credit(s) from the following:
- FR 2315 - French Cinema [LE CAT9, LEIP CAT09, HUMANITIES] (4.0 cr)
- FR 3302 - Advanced French Composition and Conversation [COMM & LAN] (4.0 cr)
- FR 3305 - French Cuisine: Exploring French Culture Through Food [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 3550 - The History of Paris: Evolution and Revolution [HUMANITIES] (4.0 cr)
- FR 4018 - Studies in Francophone Cultures and Literature [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
- FR 4492 - Modern French Literature (19th-21st century) [HUMANITIES] (4.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.

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7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.
11. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
12. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.
13. Students pursuing both the BA and BAA degrees in French Studies must satisfactorily complete 12 non-overlapping upper division credits of French electives beyond the requirements for both degrees.
14. Study abroad is essential for success in learning French.

Block Requirements (40 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (15 cr)

All courses must be taken concurrently. Liability insurance & approved background check must be complete. Application for student teaching due 4th Friday of this semester. Address Program Clearance with advisor. Block 2, take MTLE Content exams. At the end of Block 2, prior to starting Block 3, take MTLE Pedagogy exams. Consult advisor for additional upper division French courses. Oral Proficiency Exam must be completed prior to student teaching. EDUC 4040 offered spring semester only.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDUC 4040 - World Language Teaching Methods (4.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)

Block 3 (13 cr)

Take all courses concurrently. Oral Proficiency Exam must be completed prior to student teaching. Liability insurance & approved background check must be complete. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to student teach. Students must register for EDSE 4600 for 12 credits. Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Oral Proficiency Exam

Students must successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.

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Duluth Campus

Teaching German B.A.A.

World Languages & Cultures, Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 89
- Degree: Bachelor of Applied Arts

The bachelors of applied arts (B.A.A.) degree in teaching German prepares students to teach German (Grades K-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for German in grades K-12 in Minnesota. The B.A.A. in teaching German is offered through the Department of Education, in conjunction with the Department of World Languages and Cultures. This major prepares students to teach German from kindergarten through grade 12.

Note: Students pursuing both the German Studies BA and Teaching German BAA degrees must satisfactorily complete 12 non-overlapping upper division credits of German electives beyond the requirements for both degrees.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can be only completed spring semester for fall semester entry into Block I. See advisor if out of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Lower Division Core (19 cr)

Students may be exempted from part of the lower division requirements if they have previously completed French language coursework; Dept of World Languages and Cultures (DWLC) determines exemptions based on acceptance of transfer credit & work

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done. Exemption does not necessarily carry credits towards the 120 cr needed for graduation. Students may view course placement information on the DWLC website. It is recommended students take LING 1811 for Liberal Education Logic and Quantitative Reason.
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)

Upper Division Core (6 cr)

By the second semester, sophomore year students start upper division major courses and plan for application to the secondary teacher education program (STEP).
EDUC 3412 - The Computer in Education (4.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

Upper Division German Electives (20 cr)

Some of the upper division German courses may be transferred from another college or earned abroad, but at least two courses must be taken at University of Minnesota Duluth or a UMD affiliated study abroad program where credit counts as coursework at UMD.
Take 20 or more credit(s) from the following:

- GER 3302 - Advanced Composition and Conversation [COMM & LAN] (4.0 cr)
- GER 3401 - Texts and Contexts in German Speaking World [HUMANITIES] (4.0 cr)
- GER 3403 - Page and Stage: German Theater and Performance [FINE ARTS] (4.0 cr)
- GER 3407 - Sustainability in German-speaking Cultures [SUSTAIN] (4.0 cr)
- GER 3601 - German Studies I: Knights to Nationalisms [HUMANITIES] (4.0 cr)
- GER 3602 - German Studies II: From the Rise of the Reich to the Fall of the Wall [HUMANITIES] (4.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
- GER 4406 - Through Other Lenses: Germanophone Literature & Film (4.0 cr)
- GER 4502 - German Modernisms: From Vienna to Berlin [HUMANITIES] (4.0 cr)
- Any upper division GER courses may be taken with advisor approval prior to enrollment.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.

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6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.
11. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
12. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.
13. Students pursuing both the BA and BAA degrees in German must satisfactorily complete 12 non-overlapping upper division credits of German electives beyond the requirements for both degrees.
14. Study abroad is essential for success in learning German

Block Requirements (40 cr)

Application for admission to the blocks is preferred to be completed spring semester for fall semester admission. Application for admission to the blocks must be submitted by the 6th Friday of the semester. Applications are available from the Department of Education website.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent).

Students must have personal liability insurance and approved background check while in field placement settings. Consult advisor for additional upper division German course.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (15 cr)

All courses must be taken concurrently. Liability insurance & approved background check must be complete. Application for student teaching due 4th Friday of this semester. Address Program Clearance with advisor. Block 2, take MTLE Content exams. At the end of Block 2, prior to starting Block 3, take MTLE Pedagogy exams. Consult advisor for additional upper division German courses. Oral Proficiency Exam must be completed prior to student teaching. EDUC 4040 offered spring semester only.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4040 - World Language Teaching Methods (4.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

Block 3 (13 cr)

Take all courses concurrently. Oral Proficiency Exam must be completed prior to student teaching. Liability insurance & approved background check must be complete. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to student teach. Students must register for EDSE 4600 for 12 credits. Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Oral Proficiency Exam

Students must successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.

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Duluth Campus

Teaching Life Science B.A.Sc.

Biology, Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 141 to 171
- Required credits within the major: 123 to 153
- This program is 9 terms (4½ years) long.
- This program requires summer terms.
- Degree: Bachelor of Applied Science

The Bachelors of Applied Sciences (B.A.Sc.) degree in Teaching Life Science prepares students to teach General Science (grades 5-8) and Life Science (grades 9-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for General Science in grades 5-8 and Life Science in grades 9-12 in Minnesota. The B.A.Sc. in teaching life science is offered by the Department of Education in conjunction with the Department of Biology. This major prepares students to teach all science areas in grades 5-8 and to teach life science in grades 9 through 12. Students have the option of also completing the environment education emphasis with this major.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Department of Education, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 of a major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can be only completed spring semester for fall semester into Block I. See advisor if out of sequence. Additionally, refer to the major sub-plans. These courses are additional admission requirements to the degree program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

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Lower Division Core (59 cr)
General Requirements (10 cr)
AST 1040 - Introductory Astronomy [LE CAT, NAT SCI] (3.0 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)
Geology (8 cr)
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
Physics (10 cr)
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
PHYS 1002 - Introduction to Physics II (5.0 cr)
Biology (21 cr)
Biology I and II
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
Additional Biology
BIOL 2201 - Genetics (3.0 cr)
BIOL 2801 - General Ecology (3.0 cr)
BIOL 2110 - Cell and Molecular Biology (3.0 cr)
or BIOL 3100 - Cell Biology (3.0 cr)
Biology Lab
BIOL 2102 - Cell Biology Laboratory (2.0 cr)
or BIOL 2202 - Genetics Laboratory (2.0 cr)
or BIOL 2802 - Ecology Laboratory (2.0 cr)
Chemistry (10 cr)
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
CHEM 1114 - Introduction to General, Organic, and Biological Chemistry II (5.0 cr)

Upper Division Core (19 cr)
Biology
BIOL 3401 - Evolution (3.0 cr)
BIOL 3703 - Animal Physiology (3.0 cr)
BIOL 3771 - Human Anatomy (4.0 cr)
Education
EDUC 3412 - The Computer in Education (4.0 cr)
EDUC 4234 - Science, Technology, and Society [SUSTAIN] (3.0 cr)
Health
HLTH 3202 - Drug Education (2.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.

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2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

For students not choosing to complete the optional subplan:
Required credits to graduate with this degree: 141
Required credits within the major: 123

Block Requirements (41 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1 Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (16 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application or plans for completing these deficiencies are discussed with and approved by academic advisor. Block 2 is the time to take the MTLE Content exams. Immediately following the completion of Block 2 prior to starting Block 3 take the MTLE Pedagogy exams.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4255 - Teaching Science: Grades 5-12 (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
EDUC 4110 - Advanced Earth Science for Teachers (2.0 cr)

Block 3 (13 cr)

All courses must be taken concurrently. Liability insurance and approved background check must be complete. Students must have grades of C- or better, meet the required GPA in the major, and complete at least 85% of teaching courses to be eligible for student teaching. EDSE 4600 (register for 12 cr) Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Program Sub-plans

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A sub-plan is not required for this program.

Environmental Education

For students choosing to complete the optional subplan:
Required credits to graduate with this degree: 171
Required credits within the major: 153

Students may complete the environmental education emphasis with this major. The environmental education emphasis is offered by the Department of Education in conjunction with the Department of Biology and the Department of Applied Human Sciences. This emphasis enhances the student's major by integrating environmental education into formal (pre-K-12), as well as nonformal education settings such as parks and nature centers. This emphasis must be taken in conjunction with the teaching life science or teaching earth and space science majors. The emphasis is noted on the student's diploma.

Students must complete 30 credits for the environmental education emphasis. The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Core (24 cr)
Lower Division (7 cr)
HLTH 1700 - First Responder (3.0 cr)
ENED 1203 - Outdoor Skills I (2.0 cr)
ENED 1204 - Outdoor Skills II (2.0 cr)
Upper Division (14 cr)
ENED 3309 - Outdoor Leadership (1.0 cr)
ENED 3310 - Outdoor Leadership Field Experience (2.0 cr)
ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
ENED 4163 - Outdoor Education Methods (3.0 cr)
PETE 3507 - Teaching Outdoor Skills - Winter & Spring (2.0 cr)
Field Experience (3 cr)
ENED 4997 - Recreation Practicum (3.0 cr)
Electives (6 cr)
Pre-approved natural science courses may be substituted.
Take 6 or more credit(s) from the following:
•BIOL 3603 - Plant Taxonomy (3.0 cr)
•BIOL 4731 - Entomology (3.0 cr)
•BIOL 4761 - Ichthyology (3.0 cr)
•BIOL 4763 - Ornithology (3.0 cr)
•BIOL 5833 - Stream Ecology (3.0 cr)
•BIOL 5861 - Lake Ecology (3.0 cr)
•EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
•EES 5210 - Glacial and Quaternary Geology (4.0 cr)
•ENED 5325 - Sustainability Issues Investigation (2.0 cr)
•ES 2803 - Issues in Global Ecology [LE CAT] (3.0 cr)
•GEOG 3401 - Weather and Climate (3.0 cr)

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Duluth Campus

Teaching Mathematics B.A.Sc.

Education, Mathematics & Statistics

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 124 to 126
- Required credits within the major: 99 to 101
- Degree: Bachelor of Applied Science

The Bachelors of Applied Sciences (B.A.Sc.) degree in Teaching Mathematics prepares students to teach Mathematics (Grades 5 - 12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for Mathematics in grades 5 - 12 in Minnesota.

The B.A.Sc. in teaching mathematics is offered by the Department of Education in conjunction with the Department of Mathematics and Statistics. This major is for students who plan to teach mathematics in grades 5-12.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Freshman and transfer students are usually admitted to pre-major status before admission to this major. Students entering the STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of a C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can only be completed fall semester entry into Block I. See advisor if out of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

Advanced Writing

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Lower Division Core (16 - 18 cr)

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Computer Science
Double majors in Mathematics B.S. and Teaching Mathematics B.A.Sc. must take either CS 1511 or CS 1581.
CS 1121 - Introduction to Programming in Visual BASIC.NET [LE CAT, LOGIC & QR] (3.0 cr)
or CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
Education
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
Calculus I
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Upper Division Core (39 cr)
Education
EDUC 3412 - The Computer in Education (4.0 cr)
EDUC 4226 - Geometry for Teachers in Grades 5-8 (3.0 cr)
EDUC 4227 - Number Theory for Teachers in Grades 5-8 (3.0 cr)
EDUC 4228 - Teaching Mathematics with Technology (3.0 cr)
Health
HLTH 3202 - Drug Education (2.0 cr)
Mathematics
MATH 3110 - Foundations of Mathematics and Geometry (4.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3355 - Discrete Mathematics (4.0 cr)
MATH 3941 - Undergraduate Colloquium (1.0 cr)
MATH 4201 - Elementary Real Analysis (4.0 cr)
MATH 4370 - Introduction to Abstract Algebra for Teaching Majors (3.0 cr)
Statistics
STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field

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experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

Block Requirements (40 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed FALL ONLY for SPRING SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings. Consult advisor for additional upper division math course.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (15 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Liability insurance and approved background check must be complete. Application for student teaching due 4th Friday of this semester.

Course deficiencies on Program Clearance Summary form must be addressed with academic advisor. Take MTLE Content Exams Block 2 and take MTLE Pedagogy exams immediately after Block 2. Consult advisor for additional upper division math course. EDSE 4222 Fall Only.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4222 - Teaching Mathematics: Grades 5-12 (4.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

Block 3 (13 cr)

All courses must be taken concurrently. Liability insurance and approved background check must be complete. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to be eligible for student teaching. Students must register for EDSE 4600 for 12 credits. Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

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Duluth Campus

Teaching Physical Science B.A.Sc.

Chemistry and Biochemistry, Education, UMD-Physics & Astronomy

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 137 to 141
- Required credits within the major: 119 to 123
- This program is 9 terms (4½ years) long.
- Degree: Bachelor of Applied Science

Students can choose to complete the chemistry emphasis or the physics emphasis.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the block process, students are strongly encourage to meet with their advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the STEP (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum of a 2.5 major and cumulative GPA, lower division and upper division coursework with a grade of a C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I. Application for admission can be only completed spring semesters for fall semester entry into Block I. See advisor if out of sequence. Additionally, refer to the major sub-plans. These courses are additional admission requirements to the degree program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Lower Division Core (24 cr)

Astronomy

AST 1040 - Introductory Astronomy [LE CAT, NAT SCI] (3.0 cr)

Biology

BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)

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Earth Science
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
Education
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)

Upper Division Core (9 cr)
EDUC 3412 - The Computer in Education (4.0 cr)
EDUC 4234 - Science, Technology, and Society [SUSTAIN] (3.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

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Information current as of January 17, 2023

Block Requirements (41 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (16 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application. Block 2 is the time to take the MTLE Content exams. Following the completion of Block 2 prior to starting Block 3 take the MTLE Pedagogy exams.

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4255 - Teaching Science: Grades 5-12 (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
EDUC 4110 - Advanced Earth Science for Teachers (2.0 cr)

Block 3 (13 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to be eligible for student teaching. EDSE 4600 (register for 12 cr) Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Chemistry

Required credits to graduate with this degree: 137
Required credits within the major: 119

The Bachelors of Applied Sciences (B.A.Sc.) degree in teaching Physical Sciences with an emphasis in Chemistry prepares students to teach General Science (grades 5-8) and Chemistry (grades 9-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for General Science in grades 5-8 and Chemistry in grades 9-12 in Minnesota. The B.A.Sc. degree in teaching physical science, chemistry emphasis, is offered by the Department of Education in conjunction with the Department of Chemistry and Biochemistry. This major prepares students to teach all science areas in grades 5 through 8 and to teach chemistry in grades 9 through 12.

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Lower Division Core (37 cr)

Chemistry I

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Chemistry II

CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)

Quantitative Analysis

CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)

Organic Chemistry I and II

CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)

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Mathematics
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Physics I and II
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
PHYS 1002 - Introduction to Physics II (5.0 cr)
Upper Division Core (4 cr)
CHEM 3322 - Biochemistry (3.0 cr)
CHEM 3324 - Biochemistry Laboratory (1.0 cr)

Physics

Required credits to graduate with this degree: 141
Required credits within the major: 123

The Bachelors of Applied Sciences (B.A.Sc.) degree in teaching Physical Sciences with an emphasis in Physics prepares students to teach General Science (grades 5-8) and Physics (grades 9-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for General Science in grades 5-8) and Physics in grades 9-12 in Minnesota. The B.A.Sc. degree in teaching physical sciences, physics emphasis, is offered by the Department of Education in conjunction with the Department of Physics. This major prepares students to teach all science areas in grades 5 through 8 and to teach physics in grades 9 through 12. One semester of computer programming is recommended for students completing this major.

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Lower Division Core (40 cr)
Chemistry
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
CHEM 1114 - Introduction to General, Organic, and Biological Chemistry II (5.0 cr)
Mathematics
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Physics
Physics I
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
Phys I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)
Additional Physics
PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
PHYS 2022 - Classical Physics (4.0 cr)
PHYS 2033 - Classical and Quantum Physics Lab (2.0 cr)
Upper Division Core (5 cr)
PHYS 3061 - Instrumentation (3.0 cr)
PHYS 4110 - Physics for Science Teachers (2.0 cr)

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Duluth Campus

Teaching Social Studies B.A.A.

Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 124 to 128
- Required credits within the major: 111 to 113
- Degree: Bachelor of Applied Arts

The Bachelors of Applied Arts (B.A.A.) in Teaching Social Studies prepares students to teach grades 5 through 12. The major aligns with the Minnesota Professional Educators Licensing and Standards Board (PELSB) standards for Social Studies in grades 5 - 15 in Minnesota. Teaching Social Studies is an interdisciplinary major that requires lower division coursework in each of seven areas: Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology. Students then select one of eight discipline-based sub-plan specializations and complete upper division coursework in that discipline: Anthropology, Economics, Geography, History, Political Science, Psychology, Sociology, or Women's Studies. Students complete professional preparation coursework in education.

Students should utilize a What-if APAS as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encourage to meet with their assigned advisor on a regular basis to establish a plan for degree completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students entering the Secondary (5-12 & K-12) licensure programs are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ., consistent with MN policies as established by the MN Professional Educator Licensing & Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework; a minimum of a 2.5 major & cumulative GPA; lower and upper division, sub-plan and non-western history (except History subplan) coursework with a grade of a C- or better; liberal education requirements; advanced writing; all requirements outlined at https://z.umn.edu/stepapplication. Applications are due the 6th Friday of the semester prior to starting Block I and can be only completed spring semester for fall semester entry into Block I. See advisor if out of sequence. Additionally, refer to the major sub-plans; these courses are additional admission requirements to the degree program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)
or WRIT 3160 - Advanced Writing: Social Sciences (3.0 cr)

Education Core (3 cr)

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EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)

Lower Division (36 cr)

Anthropology
ANTH 1602 - Biological Anthropology and Archaeology [LE CAT, SOC SCI] (4.0 cr)
or ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)

Economics
ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Geography
GEOG 1205 - Our Globalizing World [SOC SCI, GLOBAL PER] (3.0 cr)
GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

History
HIST 1207 - Dawn of Modern Europe [LE CAT7, HUMANITIES] (4.0 cr)
or HIST 1208 - Europe in the Modern Age [LE CAT7, HUMANITIES] (4.0 cr)
HIST 1304 - US History Part I: 1607-1877 [LE CAT7, HUMANITIES] (4.0 cr)
or HIST 1305 - US History Part II: 1865-Present [LE CAT7, HUMANITIES] (4.0 cr)

Political Science
POL 1011 - American Government and Politics [LE CAT6, SOC SCI] (3.0 cr)
POL 1050 - International Relations [LE CAT, GLOBAL PER] (3.0 cr)
or POL 1500 - Introduction to Comparative Politics [LE CAT, GLOBAL PER] (3.0 cr)
or POL 1610 - Introduction to Political Theory [LE CAT, HUMANITIES] (3.0 cr)

Psychology
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)

Sociology
SOC 1101 - Introduction to Sociology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Upper Division Core (9 cr)
EDUC 3412 - The Computer in Education (4.0 cr)
EDUC 4234 - Science, Technology, and Society [SUSTAIN] (3.0 cr)
HLTH 3202 - Drug Education (2.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in field placement; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating

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teachers in all field experiences. The field experience assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all field experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Obtain an approved background check before being placed practicum, volunteering, or student teaching in schools and agencies. Students are required to obtain an approved background check every two years prior to placement in practicum, volunteering, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Obtain personal liability insurance before being placed practicum, volunteering, or student teaching in schools and agencies. Students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing field placement. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement contract each term.
8. Seek out advising each term with assigned advisor throughout college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance.
10. In addition to the above expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
11. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the Accreditation office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
16. Recommendation for licensure are based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in field experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.

Block Requirements (39 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent).

Students must have personal liability insurance and approved background check while in field placement settings.
EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (14 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Applications are available online at: https://z.umn.edu/studentteach. Course deficiencies on Program Clearance Summary form must be cleared before filing application. Block 2 is the time to take the MTLE Content exams; immediately following the completion of Block 2 prior to starting Block 3, take the MTLE Pedagogy exams. EDSE 4244 offered spring only.
EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4244 - Teaching Social Studies: Grades 5-12 (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)

Block 3 (13 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Students must have personal liability insurance and approved background check while working in field placement settings. EDSE 4600 (register for 12 cr). Students must complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600.
EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Anthropology

Required credits to graduate with this degree: 127 - 128

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Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Anthropology Courses (18 cr)
Students who select this sub-plan must take both ANTH 1602 and 1604; one course will count under the lower division anthropology requirement, and the other will count toward the sub-plan requirement.
ANTH 1602 - Biological Anthropology and Archaeology [LE CAT, SOC SCI] (4.0 cr)
or ANTH 1604 - Cultural Anthropology [LE CAT6, LEIP CAT06, SOC SCI, GLOBAL PER] (4.0 cr)
SOC 3156 - Qualitative Research Methods and Analysis (4.0 cr)
Anthroplogy Electives (10 cr)
Take 10 or more credit(s) from the following:
•ANTH 3xxx
•ANTH 4xxx
Non-Western History (3 - 4 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

Economics

Required credits to graduate with this degree: 124 -125
Required credits within the major: 112 - 113

Students with an economics sub plan must take ECON 1003 as their lower division ECON course and both ECON 1022 and ECON 1023 for the sub-plan. The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Economics Courses (18 cr)
Economics Core
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
Statistics
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)
Upper Division Economics
ECON 3022 - Intermediate Macroeconomics (3.0 cr)
or ECON 3023 - Intermediate Microeconomics (3.0 cr)
or ECON 3402 - Global Economic Issues (3.0 cr)
Economic Electives
ECON courses 3xxx or higher so total equals minimum 18 credits.
Take 5 - 6 credit(s) from the following:
•ECON 3xxx
•ECON 4xxx
Non-Western History (3 - 4 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)

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•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

Geography

Required credits to graduate with this degree: 124 - 125
Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Geography Courses (18 cr)
Geography Core
ES 2005 - Environment and Sustainability [SUSTAIN] (3.0 cr)
GIS 2552 - Mapping Our World [LOGIC & QR] (3.0 cr)
Lower Division Electives
GEOG 1205 and GEOG 1414 may not be applied.
Take 6 or more credit(s) from the following:
•ES 1xxx
•ES 2xxx
•GEOG 1xxx
•GEOG 2xxx
Upper Division Electives
Highly recommended courses include: ES 3100, GEOG 3401, GEOG 3411, and GEOG 4393.
Take 6 or more credit(s) from the following:
•ES 3xxx
•ES 4xxx
•ES 5xxx
•GEOG 3xxx
•GEOG 4xxx
•GEOG 5xxx
Non-Western History (3 - 4 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

History

Required credits to graduate with this degree: 126
Required credits within the major: 111

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

History Electives (20 cr)
Students who select the history sub-plan are strongly encouraged to also apply for a History BA degree.
Take 20 or more credit(s) from the following:
Subrequirement I : United States History
Take 1 or more course(s) totaling 4 - 8 credit(s) from the following:
•HIST 3310 - The American Revolution (4.0 cr)
•HIST 3318 - Slavery, Lincoln and the Civil War [CDIVERSITY] (4.0 cr)
•HIST 3320 - American Popular Culture, 1929 to the Present (4.0 cr)
•HIST 3355 - War and American Society, 1500-Present (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3396 - The Vietnam War (4.0 cr)
•**Subrequirement II: European History**
Take 1 or more course(s) totaling 4 - 8 credit(s) from the following:

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•HIST 2345 - Science and Society: 1500 to Present [LE CAT7, HUMANITIES] (4.0 cr)
•HIST 3133 - Ancient Greece from Homer to Alexander (4.0 cr)
•HIST 3141 - Ancient Rome: From Republic to Empire (4.0 cr)
•HIST 3145 - Ireland and the Construction of History (4.0 cr)
•HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3264 - Russian Empire under the Tsars: Russia under the Romanovs from Peter the Great to Lenin [GLOBAL PER] (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3575 - Jews & Poles: Entangled Lives, Cultures and Memories in the 20th Century Poland - Study Abroad [GLOBAL PER] (4.0 cr)
•HIST 3939 - Europe in the Age of Renaissance and Reformation: 1348-1648 (4.0 cr)
•HIST 3940 - Early Modern England: 1485-1689 (4.0 cr)

•Subrequirement III: Asian, African, Non-U.S., Non-European

Take 1 or more course(s) totaling 4 - 12 credit(s) from the following:
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3035 - Ancient Warfare From Alexander to Mohammad (4.0 cr)
•HIST 3038 - History of Christianity: Origins to 1054 (4.0 cr)
•HIST 3055 - The Bible & Ancient Near East (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3720 - History of Iran (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3825 - Islamic History from Muhammad to the Ottomans (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)

•Special Topics

A Special Topics course may fulfill a category requirement; advisor prior approval for intended category required.
Take 0 - 2 course(s) from the following:
•HIST 3095 - Special Topics: (various titles to be assigned) (4.0 cr)

Political Science

Required credits to graduate with this degree: 127 - 128
Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Political Science Electives (18 cr)

Take 18 or more credit(s) from the following:

Category I: United States Politics

Take 1 or more course(s) from the following:
•POL 3001 - American Public Policy (3.0 cr)
•POL 3015 - State and Local Government (4.0 cr)
•POL 3025 - Popular Culture and Politics [HUMANITIES] (4.0 cr)
•POL 3040 - Women and Politics (3.0 cr)
•POL 3080 - Environment and Politics (3.0 cr)
•POL 3100 - Contemporary Issues in American Politics (3.0 cr)
•POL 3120 - Congress and the Presidency (4.0 cr)
•POL 3131 - Judicial Politics and Policy Making (3.0 cr)
•POL 3142 - Voting, Campaigning, and Elections (3.0 cr)
•POL 3150 - American Constitutional Law I (3.0 cr)
•POL 3151 - American Constitutional Law II (3.0 cr)

•Category II: International Politics

Take 1 or more course(s) from the following:
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)

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•**Category III: Comparative Politics**
Take 1 or more course(s) from the following:
•POL 3511 - Politics of South Asia (3.0 cr)
•POL 3515 - Theories of Comparative Politics (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•**Category IV: Political Theory**
Take 1 or more course(s) from the following:
•POL 3600 - Political Concepts (3.0 cr)
•POL 3610 - Political Economy: An Introduction (3.0 cr)
•POL 3652 - Modern Political Thought (4.0 cr)

Non-Western History (3 - 4 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

Psychology

Required credits to graduate with this degree: 124 - 125
Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Psychology Electives (18 cr)
Students who select the psychology sub plan follow the guidelines for the psychology minor. EDSE 4501 credits count as an elective course in the psychology minor. Students who select the psychology sub plan should register with the Psychology Department as a psychology minor.
Take 18 or more credit(s) from the following:
Psychology minor course
•CSD 3010 - Introductory Statistics for the Behavioral Sciences (3.0 cr)
or ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or EXSC 4700 - Statistics and Research Methods in Exercise Science (4.0 cr)
or PSY 2020 - Introduction to Statistics and Research Methods (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or Other approved course
•**Group I**
•PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
or PSY 3081 - History and Systems of Psychology (3.0 cr)
or PSY 3111 - Theories of Personality (3.0 cr)
or PSY 3121 - Abnormal Psychology (4.0 cr)
or PSY 3201 - Social Psychology (3.0 cr)
•**Group II**
•PSY 3061 - Physiological Psychology (4.0 cr)
or PSY 3611 - Learning and Behavior (4.0 cr)
or PSY 3613 - Applied Behavior Analysis and Behavior Change (4.0 cr)
or PSY 3621 - Cognition (4.0 cr)
or PSY 3697 - Sensation and Perception (4.0 cr)
•**Psychology Elective Courses**
PSY courses 2xxx or higher so total equals minimum 18 credits.
Take 8 or more credit(s) from the following:
•PSY 2xxx
•PSY 3xxx

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•PSY 4xxx

Non-Western History (3 - 4 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

Sociology

Required credits to graduate with this degree: 127 - 128
Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Sociology Courses (18 cr)

Sociology Core

SOC 2155 - Introduction to Research Methods and Analysis (4.0 cr)
SOC 3945 - Social Stratification (3.0 cr)
SOC 4111 - Sociological Theory (4.0 cr)

Sociology Electives

Take 7 or more credit(s) from the following:

•SOC 3xxx
•SOC 4xxx

Non-Western History (3 - 4 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

•AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
•HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
•HIST 2405 - History of Chinese Culture (4.0 cr)
•HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
•HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
•HIST 3463 - History of Modern China (4.0 cr)
•HIST 3465 - Twentieth Century China Politics (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 4727 - Middle Eastern History Through Film (4.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

Women's Studies

Required credits to graduate with this degree: 127 - 128
Required credits within the major: 112 - 113

The below sub-plan requirements are a part of the total admission requirement that should be completed prior to admission to the degree program. These are considered prerequisites to the blocks.

Women's Studies Courses (18 cr)

Core

WS 2001 - Introduction to Lesbian Gay Bisexual and Transgender Studies [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)

Electives (14 cr)

Take 14 or more credit(s) from the following:

Women's Studies Electives

Take 6 or more credit(s) from the following:

•WS 3xxx
•WS 4xxx

•**Women's Studies Related Electives**

Take 6 or more credit(s) from the following:

•AMIN 3450 - American Indian Women [CDIVERSITY] (3.0 cr)
•ANTH 3080 - Cultural Constructions of the Body (4.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)

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- CRIM 4323 - Women and Justice (3.0 cr)
- HLTH 3118 - Women's Health Issues (3.0 cr)
- LGBT 3xxx
- LGBT 4xxx
- POL 3040 - Women and Politics (3.0 cr)
- PSY 2223 - Gender in Society [LE CAT8, LECD CAT08, CDIVERSITY] (4.0 cr)
- PSY 3215 - Topics in Human Sexuality (3.0 cr)
- SOC 4925 - Sociology of Rape (3.0 cr)
- SOC 4947 - Sociology of Gender (3.0 cr)

Non-Western History (3 - 4 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- AMIN 2015 - Ojibwe History and Modern Culture [SUSTAIN] (3.0 cr)
- HIST 1400 - Modern World History from 1500 to present [LE CAT7, LEIP CAT07, HUMANITIES, GLOBAL PER] (4.0 cr)
- HIST 2405 - History of Chinese Culture (4.0 cr)
- HIST 2410 - Modern China, Japan, Koreas, Vietnam and East Asia (4.0 cr)
- HIST 2515 - Ancient to Pre-Modern African History [LE CAT7, LECD CAT07, HUMANITIES] (4.0 cr)
- HIST 3463 - History of Modern China (4.0 cr)
- HIST 3465 - Twentieth Century China Politics (4.0 cr)
- HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
- HIST 4727 - Middle Eastern History Through Film (4.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- SPAN 2540 - Latino Literatures and Cultures [LE CAT8, LECD CAT08, HUMANITIES, CDIVERSITY] (4.0 cr)

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Duluth Campus

Teaching Spanish B.A.A.

World Languages & Cultures, Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 93
- Degree: Bachelor of Applied Arts

The bachelors of applied arts (B.A.A.) degree in teaching Spanish prepares students to teach Spanish (Grades K-12). The major aligns to the Minnesota Professional Educator Licensing and Standards Board (PELSB) standards for Spanish in grades K-12 in Minnesota. The B.A.A. in teaching Spanish is offered through the Department of Education, in conjunction with the Department of World Languages and Cultures. This major prepares students to teach Spanish from kindergarten through grade twelve.

Students pursuing both the BA in Spanish Studies and BAA in Teaching Spanish degrees must satisfactorily complete 12 non-overlapping upper division credits of Spanish electives beyond the requirements for both degrees.

Students should utilize a What-if APAS Report as the official tool to see all requirements for degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

Lower Division Core (23 cr)

Students may be exempted from part of the lower division requirements if they have previously completed Spanish language coursework; Dept of World Languages and Cultures (DWLC) determines exemptions based on acceptance of transfer credit & work done. Exemption does not necessarily carry credits towards the 120 cr needed for graduation. Students may view course placement information on the DWLC website. It is recommended students take LING 1811 for Liberal Education Logic and Quantitative Reason

EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

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Upper Division Core (6 cr)

By the second semester of the sophomore year, students start upper division major courses and plan for application to the secondary teacher education program (STEP).

EDUC 3412 - The Computer in Education (4.0 cr)

HLTH 3202 - Drug Education (2.0 cr)

Upper Division Spanish Electives (20 cr)

Some of the upper division Spanish courses may be transferred from another college or earned abroad, but at least two courses must be taken at University of Minnesota Duluth or a UMD affiliated study abroad program where credit counts as coursework at UMD.

Take 20 or more credit(s) from the following:

- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4013 - Latin American Poetry and Drama [HUMANITIES] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4022 - Medieval and Golden Age Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4090 - Aspects of the Hispanic World [HUMANITIES] (4.0 cr)
- Any upper division SPAN courses may be taken with advisor approval prior to enrollment.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.5 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Background Checks: students are required to obtain an approved background check every three years prior to placement in field experience, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Liability Insurance: students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are completing clinical experiences. Students can purchase the liability insurance online at: https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.

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9. Adhere to university policies regarding attendance. In addition to the listed expectations, students must abide by all university policies (http://d.umn.edu/academic-affairs/academic-policies).
10. Successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.
11. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at: https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
12. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.
13. Students pursuing both the BA and BAA degrees in Spanish must satisfactorily complete 12 non-overlapping upper division credits of Spanish electives beyond the requirements for both degrees.
14. Study abroad is essential for success in learning Spanish.

Block Requirements (40 cr)

Application for admission to the blocks must be submitted by the 6th Friday of the spring semester. Applications are available online at: https://z.umn.edu/stepapplication. Application for admission can be completed SPRING SEMESTER ONLY for FALL SEMESTER ENTRY INTO BLOCK 1. Application must be completed the semester prior to starting the blocks.

Block 1 (12 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Students must have personal liability insurance and approved background check while in field placement settings. Consult advisor for additional upper division spanish course.

EDSE 4204 - Designing Learning Environments and Lessons (3.0 cr)
EDSE 4100 - Teaching in a Diverse Society (3.0 cr)
EDSE 4501 - Adolescent/Adult Development and Learning Theory (3.0 cr)
SPED 3415 - Special Education in the Secondary School (3.0 cr)

Block 2 (15 cr)

Typically, all courses must be taken concurrently (alternate schedules by program consent). Liability insurance and approved background check must be complete. Application for student teaching due 4th Friday of this semester. Course deficiencies on Program Clearance Summary form must be addressed with academic advisor. Take MTLE Content Exams Block 2 and take MTLE Pedagogy exams immediately after Block 2. Consult advisor for additional upper division spanish course. EDUC 4040 offered spring only

EDSE 3206 - Apprenticeship: Secondary School (2.0 cr)
EDSE 4214 - Teaching Content-Area Reading (3.0 cr)
EDSE 4525 - Assessment for Secondary Education (3.0 cr)
EDUC 4381 - Teaching Indigenous Students (3.0 cr)
EDUC 4040 - World Language Teaching Methods (4.0 cr)

Block 3 (13 cr)

Take all courses concurrently. Oral Proficiency Exam must be completed prior to student teaching. Liability insurance & approved background check must be complete. Students must have grades of C- or better in all required courses, meet the required GPA in the major, and complete at least 85% of teaching major courses to be eligible for student teaching. Students must register for EDSE 4600 for 12 cr and complete and submit the edTPA for scoring as outlined in the course requirements of EDSE 4600

EDSE 4600 - Student Teaching (3.0 - 24.0 cr)
EDUC 4500 - Professional Issues and Ethics (1.0 cr)

Oral Proficiency Exam

Students must successfully complete an oral proficiency exam administered by the Department of World Languages and Cultures before student teaching.

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Duluth Campus

Unified Early Childhood Studies B.A.Sc.

Education

College of Education and Human Service Professions

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 124
- Required credits within the major: 99
- Degree: Bachelor of Applied Science

The bachelor of applied science (B.A.Sc.) degree in unified early childhood studies is preparing students for teacher licensure in early childhood (Birth-Grade 3) and early childhood special education (Birth-Age 6). The major meets the MN Professional Educator Licensing and Standards Board standards for teaching early childhood (Birth-Grade 3) and early childhood special education (Birth-Age 6) in Minnesota. The unified early childhood studies program and licensures include interdisciplinary curricula that prepare students for work in a variety of settings with children of diverse ability levels, from birth through age eight. Graduates find employment in public schools, community and private preschool programs, early primary grades in elementary schools, programs for children ages birth through six with identified disabilities or delays, home and center-based child care, and Head Start programs. All students complete a common core of courses in child development, parent-child relations, early childhood curriculum and programming, early childhood special education, community resources, and educational leadership and program administration. The unified early childhood studies major leads to Minnesota licensure in early childhood education (birth through grade three) and early childhood special education. International student teaching placements are available.

Students should utilize a What-if APAS Report as the official tool to see all requirements to degree completion. Due to the complexity of the admission to the blocks process, students are strongly encouraged to meet with their assigned academic advisor on a regular basis to establish a plan for program completion.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.70 already admitted to the degree-granting college
- 2.70 transferring from another University of Minnesota college
- 2.70 transferring from outside the University

Students entering the Unified Early Childhood Studies license program are bound by the policies in effect at the time of application; admission is based on criteria established by the UMD Dept. of Educ, consistent with MN policies as established by the MN Professional Educator Licensing and Standards Board (PELSB). Students must complete the following to be eligible for admission to Block coursework: a minimum 2.7 major and cumulative GPA, lower division and upper division coursework with a grade of C- or better, liberal education requirements, advanced writing and all requirements outlined online at: https://z.umn.edu/uechapplication. Applications are due the 6th Friday of the semester prior to starting Block 1. Applications for admission can only be completed fall semester for spring semester entry into Block I. See advisor if out of sequence.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

WRIT 3140 - Advanced Writing: Human Services (3.0 cr)

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or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Lower Division Core (18 cr)
ECH 2010 - Foundational Issues in Early Childhood Studies (3.0 cr)
ECH 2015 - Literature for Young Children (3.0 cr)
ECH 2025 - Brain Development: Environments and Relationships [SOC SCI] (3.0 cr)
EDUC 1100 - Human Diversity [LE CAT, LECD C, CDIVERSITY] (3.0 cr)
EDUC 1101 - Education in Modern Society [LE CAT7, HUMANITIES] (3.0 cr)
EDUC 2000 - Technology for Teaching and Learning (3.0 cr)

Special Education Core (3 cr)
SPED 4433 - Foundations in Special Education (3.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. Compliance with general regulations governing granting of degrees.
2. Students are expected to make satisfactory progress each semester, including grades of C- or better in all courses required in the major and successfully achieve all standards aligned with assignments in each course.
3. Maintain a minimum 2.7 cumulative and major GPA.
4. Demonstrate acceptable professional performance, including dispositions and teaching skills, in clinical experiences; candidate proficiency is assessed throughout the teacher preparation courses by University faculty, University supervisors, and the cooperating teachers in all clinical experiences. The field experience and student teaching assessment forms include knowledge, skills, and dispositions that are aligned to institutional and standards for all clinical experiences.
5. Abide by the MN PELSB and UMD Dept. of Education Code of Ethics.
6. Obtain an approved background check before being placed in field experience, practicum, or student teaching in schools and agencies. Students are required to obtain an approved background check every three years prior to placement in field placement, practicum, or student teaching in schools and agencies. Proof of complete background check is required prior to any experience in public school and agency settings. Students are required to keep a printed copy of the background check to provide to the school or agency, if necessary.
7. Obtain personal liability insurance before being placed in field experience, practicum, or student teaching in schools and agencies. Students are required to have professional liability insurance purchased through the Education Minnesota Student Membership annually while they are
completing field placement. Students can purchase the liability insurance online at:
https://z.umn.edu/edmnstudentmembership. A paper copy of the liability insurance MUST be
provided to the UMD Department of Education when signing the placement agreement each term.
8. Seek out advising each term with an assigned advisor throughout your college career to ensure you are on track for program completion.
9. Adhere to university policies regarding attendance; and in addition to the above expectations, students must abide by all university policies. (http://d.umn.edu/academic-affairs/academic-policies)
10. Students are required to complete a program clearance process as part of the student teaching application to review their degree status with their advisor and the CEHSP ALFE office. Student teaching applications are due the 4th Friday of the semester. Learn more online at:

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https://z.umn.edu/studentteach. Students must have grades of C- or better in all required courses, and meet the required GPA in the major to be eligible for student teaching.
11. Recommendation for licensure is based on successful completion of all program-related courses; demonstration of satisfactory outcomes required by the program; acceptable performance in clinical experiences, including student teaching (including final student teaching assessments); submission of the edTPA, completion of UMD Dept. of Education graduate exit survey, and successful completion of all tests required by PELSB.
12. Application for admission to the blocks must be submitted by the 6th Friday of the fall and spring semester. Applications are available online at: https://z.umn.edu/uechapplication. Application for admission can ONLY be completed FALL SEMESTER for SPRING SEMESTER ENTRY INTO BLOCK 1.

Block 1 (14 cr)

All courses must be taken concurrently. ECH 4400 is taken in both Block 1 and Block 3 for a total of 2 credits. Students must have personal liability insurance and approved background check while in field placement settings. Application to the blocks must be completed one semester prior to starting Block 1. Learn more online at: https://z.umn.edu/uechapplication. NOTE: UECH students can only apply during the Fall semesters for admission into Block I spring semester.

ECH 3050 - Early Relationships in Young Children: Observing and Guiding (4.0 cr)
ECH 3055 - Creative Expressions and Emergent Literacy: Birth - Age 8 (4.0 cr)
ECH 3104 - Family Partnerships (1.0 cr)
ECH 4400 - Professional Development Seminar (1.0 cr)
SPED 3103 - Infants and Toddlers with Special Needs (4.0 cr)

Block 2 (18 cr)

All courses must be taken concurrently. Students must have personal liability insurance and approved background check while in field placement settings.

ECH 3060 - Teaching Culturally and Linguistically Diverse Children (3.0 cr)
ECH 4010 - Infant and Early Childhood Perceptual and Psychomotor Development (2.0 cr)
SPED 3105 - Young Children with Special Needs: Ages Three-Eight (4.0 cr)
SPED 3106 - Working with Young Children with Low Incidence Disabilities (4.0 cr)
SPED 3109 - Supporting Social/Emotional Development Birth-8 (3.0 cr)
SPED 3205 - Foundations in Early Childhood Assessment (2.0 cr)

Block 3 (17 cr)

All courses must be taken concurrently. ECH 4400 is taken in Blocks 1 & 3 for a total of 2 crs. Application for student teaching must be made by the 4th Friday of the semester prior to student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application. It is recommended, immediately following the completion of Block 3 prior to starting Block 4 take the MTLE Content and Pedagogy exams.

ECH 3021 - Teaching Mathematics: Birth-Age Eight (4.0 cr)
ECH 3022 - Literacy for Young Children: Teaching Reading, Writing, Speaking, and Listening (4.0 cr)
ECH 3030 - Inquiry, Social Studies, and Science Learning: Birth-Age Eight (5.0 cr)
ECH 4400 - Professional Development Seminar (1.0 cr)
IESE 3326 - Advanced Literacy & Language: Designing & Implementing a Comprehensive Literacy Program (3.0 cr)

Block 4 (12 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application or plans for completing these deficiencies are discussed with and approved by academic advisor. Students must register for ECH 4600 for 9 crs. Students must complete and submit the edTPA for scoring as outlined in the course requirements of ECH 4600.

ECH 4600 - Student Teaching in Early Childhood/Primary (3.0 - 12.0 cr)
ECH 4610 - Professional Issues Seminar in Early Childhood Education (1.0 cr)
SPED 3206 - Methods of Assessment in Early Childhood Special Education (2.0 cr)

Block 5 (13 cr)

All courses must be taken concurrently. Application for student teaching must be made by the 4th Friday of the semester before student teaching. Course deficiencies on Program Clearance Summary form must be cleared before filing application or plans for completing these deficiencies are discussed with and approved by academic advisor. Students must register SPED 4600 register for 9 credits.

ECH 4009 - Leadership in Early Childhood Studies (3.0 cr)
SPED 4600 - Student Teaching (1.0 - 12.0 cr)
SPED 4610 - Professional Issues (1.0 cr)

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Duluth Campus

Accounting B.Acc.

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Accounting

The bachelor of accounting provides the core competencies in accounting and general business that are necessary for a successful accounting career. The program includes study in the following areas: financial accounting, management accounting, accounting information systems, financial, operational, and information systems auditing, and taxation. This accounting curriculum is combined with a foundation in the functional areas of business law, finance, information systems, marketing, operations, and management, as well as a broad general education.

The primary professional certification in public accounting is the Certified Public Accountant (CPA). Most states, including Minnesota and Wisconsin, require students to complete 150 semester hours of education to become a licensed CPA. All 150 hours may be taken at the undergraduate level or a combination of undergraduate and graduate level courses may be used to satisfy this requirement. At UMD, students can combine their B.Acc. degree with an MBA (the 4+1 MBA option allows students to complete their MBA in one year). Students can also pick from another major within LSBE, a minor from LSBE, a minor from another collegiate unit, or additional undergraduate coursework in accounting, business, or other discipline such that the total equals or exceeds 150 hours. (Contact the Department of Accounting and Finance for additional information.)

Other types of professional certifications for accountants in private industry do not require 150 hours of education. The Certified Management Accountant (CMA) certificate is issued by the Institute of Management Accounting. The Certified Internal Auditor (CIA) certificate is issued by the Institute of Internal Auditors. The B.Acc. degree program also serves as basic preparation for both the CMA and CIA examinations.

A number of active learning opportunities are available to students in UMD's accounting program. ACCT 3796 Internship in Accounting allows students to apply knowledge and skills gained in the classroom to real-world accounting problems through work experience in sponsoring businesses. Most internships offer a salary, as well as the opportunity to earn credits through a supervised work experience. Another opportunity, ACCT 3705 Volunteer Income Tax Assistance, gives students a general understanding of the U.S. individual income tax system, while providing a valuable service learning experience where students assist low-income clientele with tax planning and compliance. Finally, in ACCT 3701 Student to Business Initiative in Accounting, students working in teams are matched with local small businesses that need accounting assistance. Students define the specific scope of work with the business owner and then serve as a "consultant" to the business. At the end of the semester, students present the results of their work at the UMD Center for Economic Development offices.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA. Freshmen and transfer students are typically admitted as pre-accounting students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academics.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Accounting (37 cr)
Students must obtain a minimum of a "C" in ACCT 2001 and 2002.
ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)
Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A

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minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.

8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.0 or better required major coursework GPA

Advance Writing (3 cr)
WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

Accounting (27 cr)
Accounting Foundation (10 cr)
ACCT 3001 - Technology Tools in Accounting (1.0 cr)
ACCT 3101 - Intermediate Accounting I (3.0 cr)
ACCT 3102 - Intermediate Accounting II (3.0 cr)
BLAW 3001 - Law and Ethics for Financial Professionals (3.0 cr)
Accounting Functions (9 cr)
ACCT 3201 - Cost Accounting (3.0 cr)
ACCT 3301 - Accounting Information Systems (3.0 cr)
ACCT 3401 - Individual Income Taxation (3.0 cr)
Auditing (3 cr)
ACCT 4101 - Auditing (3.0 cr)
Active Learning Experience (2 cr)
Take 2 or more credit(s) from the following:
•ACCT 3701 - Small Business Initiative in Accounting (1.0 - 2.0 cr)
•ACCT 3705 - Volunteer Income Tax Assistance (1.0 - 2.0 cr)
•ACCT 3797 - Internship in Accounting (1.0 - 6.0 cr)
Accounting Discipline Elective (3 cr)
Take 3 or more credit(s) from the following:
Business Taxation
•ACCT 4402 - Advanced Business Taxation (3.0 cr)
or ACCT 5402 - Advanced Business Taxation (3.0 cr)
•Advanced Accounting
•ACCT 4501 - Advanced Accounting (3.0 cr)
or ACCT 5501 - Advanced Accounting (3.0 cr)
•International Accounting
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)
•Not for Profit Accounting
•ACCT 4510 - Fund and Not-For-Profit Accounting (3.0 cr)
•Benefit and Retirement Planning
•ACCT 4600 - Employee Benefit and Retirement Planning (3.0 cr)
or ACCT 5600 - Employee Benefit and Retirement Planning (3.0 cr)
•Special Topics
•ACCT 4795 - Special Topics (Various Titles to be Assigned) (1.0 - 3.0 cr)
•Estate Planning
•BLAW 4301 - Estate Planning Concepts and Strategies (3.0 cr)
or BLAW 5301 - Estate Planning Concepts and Strategies (3.0 cr)

LSBE Core (24 cr)
BCOM 3141 - Business Communications (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)

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MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)
Take exactly 3 credit(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (5 cr)
Complete minimum of 5 credits of additional ACCT 3797 credits and/or non-LSBE courses (3xxx or above, which excludes ACCT, BA, BCOM, BLAW, BUS, CIA, ECON, FIN, FMIS, HCM, INTB, LSBE, MGTS, MIS, MKTG or SBE), including at least one international course listed below. NOTE: PSY 3020, SOC 3155, STAT 3411, or STAT 3611 cannot be used to fulfill this requirement. Up to 5 credits from an LSBE second major or an LSBE minor, may be applied to this requirement.
Take 5 or more credit(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)

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- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- POL 3575 - Latin American Politics and Development (3.0 cr)
- POL 3580 - Central American Politics (3.0 cr)
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
- **Accounting**
  - ACCT 4505 - International Accounting (3.0 cr)

  or ACCT 5505 - International Accounting (3.0 cr)
- **Management**
  - MGTS 4474 - International Management (3.0 cr)
- **Human Resource Management**
  - MGTS 4861 - International Human Resource Management (3.0 cr)

  or MGTS 5861 - International Human Resource Management (3.0 cr)
- **Marketing**
  - MKTG 4774 - International Marketing (3.0 cr)

  or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Accounting Minor

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 31

The minor in accounting is valuable to students who want to understand the accounting process and its applications in modern society. The minor offers training for entry into positions in government, industry, and social service organizations that require an understanding of accounting but not the depth provided by the B.Acc. degree program.

For students outside of LSBE, no more than 25 percent (30 credits) of total credits required for a degree may be drawn from the courses offered by LSBE or recognized by the school as equivalent transfer courses while completing this minor. Economics courses are excluded from these calculations.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The accounting minor is available to both LSBE students and non-LSBE students. Requirements are described below.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Accounting Minor BBA

LSBE students must be a B.B.A. degree candidate.

Students must apply for admission to the minor and are admitted if eligible for LSBE candidacy status.

Admission to the minor is based on the same GPA requirements as admission to candidacy for LSBE baccalaureate degrees. Applications are available in 111A Labovitz School of Business and Economics Building.

Accounting Core Courses (6 cr)

ACCT 3101 - Intermediate Accounting I (3.0 cr)
ACCT 3301 - Accounting Information Systems (3.0 cr)

Accounting Electives (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- ACCT 3102 - Intermediate Accounting II (3.0 cr)
- ACCT 3401 - Individual Income Taxation (3.0 cr)
- ACCT 3201 - Cost Accounting (3.0 cr)

Accounting Minor Econ BA and non-LSBE

An overall and UM GPA of 2.60 and completion of the pre-minor core are required for automatic admission to this minor. Students with GPAs between 2.00 and 2.60 should consult with LSBE Student Affairs.

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Pre-Minor Core (15-19 cr)
ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
Economics
Take the following course or course pair:
ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
Statistics
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)
Minor Courses (6 cr)
ACCT 3101 - Intermediate Accounting I (3.0 cr)
ACCT 3301 - Accounting Information Systems (3.0 cr)
Electives (6 cr)
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•ACCT 3102 - Intermediate Accounting II (3.0 cr)
•ACCT 3401 - Individual Income Taxation (3.0 cr)
•ACCT 3201 - Cost Accounting (3.0 cr)

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Duluth Campus

Business Administration Certificate

Labovitz School of Business & Economics - Adm

Labovitz School of Business and Economics

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 16
- Degree: Business Administration Certificate

The Certificate in Business Administration is intended to provide a basic introduction to the fundamentals of business to students who may not have had any prior exposure to business. A student must successfully complete all eight modules included in the program in order to earn the Certificate. The eight modules provide coverage in the areas of accounting, economics, finance, human resource management, marketing, operations, organizational management, and statistics. Students who have successfully completed all eight modules would be deemed to have met all the prerequisite foundational requirements for LSBE's MBA program. All eight courses included in the program are two-credits each and are offered fully online. These courses cannot be used to substitute for any existing LSBE courses.

Program Delivery

This program is available:

- completely online (all program coursework can be completed online)

Admission Requirements

College consent will be required for students to enroll in any of the modules.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Required Courses (16 cr)

BUS 2100 - Fundamentals of Accounting (2.0 cr)
BUS 2200 - Fundamentals of Economics (2.0 cr)
BUS 2300 - Fundamentals of Operations Management (2.0 cr)
BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
BUS 2500 - Fundamentals of Applied Statistics (2.0 cr)
BUS 2600 - Fundamentals of Financial Management (2.0 cr)
BUS 2700 - Fundamentals of Marketing (2.0 cr)
BUS 2800 - Fundamentals of Human Resource Management (2.0 cr)

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Duluth Campus

Business Administration Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 27 to 30

The business administration minor provides supplemental business education for students seeking degrees in programs other than business or accounting.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

An overall and UM GPA of 2.60 and 2.00 within all LSBE courses is required for automatic admission to this minor, along with completion of the pre-minor core. Students with GPAs between 2.00 and 2.59 should consult with LSBE Student Affairs.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The business administration minor is available to Economics BA and non-LSBE students only.

Pre-Minor Core (12-15 cr)

SCSE students majoring in computer information systems and technology are required to take FMIS 2201 as part of the pre-minor requirements, not CS 1011.

MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or take the following course pair
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Electives (15 cr)

MGTS 3301 - Production and Operations Management (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)

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Duluth Campus

Business Analytics B.B.A.

Management Studies

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

Graduates in business analytics combine capabilities in data management, applied statistics, data analytic techniques, and business domain expertise to provide valuable support for management and strategic decision making in different business domains. This combination of technical skills and business acumen builds a valuable foundation for future growth. Among the topics covered, include managing databases, visualizing data, descriptive, predictive and prescriptive analytics, big data, spreadsheet modeling, and specialized business analytics concentrations.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Completion of Level 1 (Associate) MS Excel Certification OR completion of Levels I and II Excel workshops made available by LSBE. Freshman and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of LSBE Advising and Academics.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

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Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

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2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,
   b. 2.00 or better Required Major Coursework GPA

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Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Business Analytics (21 cr)
Group A (15 cr)
ECON 3020 - Applied Statistics for Business and Economics II (3.0 cr)
MIS 3220 - Database Management and Design (3.0 cr)
Data Visualization
BA 4410 - Data Visualization (3.0 cr)
or BA 5410 - Data Visualization (3.0 cr)
Data Analytics
BA 4420 - Data Analytics for Managerial Decision Making (3.0 cr)
or BA 5420 - Data Analytics for Managerial Decision Making (3.0 cr)
Business Analytics
BA 4490 - Business Analytics Capstone (3.0 cr)
or BA 5490 - Business Analytics Capstone (3.0 cr)
Group B (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•BA 4440 - Spreadsheet Modeling and Decision Analysis (3.0 cr)
•BA 4460 - Big Data Analytics (3.0 cr)
•MGTS 4489 - Optimization and Decision Making (3.0 cr)
Group C (3 cr)
Additional Group B course or other analytics courses approved by petition.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•BA 4497 - Business Analytics Internship (3.0 cr)
•ECON 3030 - Econometrics I (3.0 cr)
•ECON 4590 - Economic and Business Forecasting (3.0 cr)
•HCM 4580 - Health Services Data and Analysis (3.0 cr)
•MATH 4180 - Solving Industrial Mathematics Research Problems (3.0 cr)
•MGTS 4478 - Supply Chain Management (3.0 cr)
•MGTS 4825 - Human Resource Analytics (3.0 cr)
•MKTG 3711 - Marketing Research (3.0 cr)
•MKTG 3731 - Sales Analytics: An Introduction to Sales Analysis Techniques and Applications (3.0 cr)
•STAT 4050 - Introduction to Statistical Computing (3.0 cr)
•STAT 4060 - Introduction to Biostatistics (3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship credits in BA 4497 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 & cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)

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•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
•**Accounting**

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•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics

•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management

•MGTS 4474 - International Management (3.0 cr)

•Human Resource Management

•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)

•Marketing

•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Business Analytics Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 35

Business analytics combines capabilities in data management, applied statistics, and data analytic techniques to provide insights valuable to any discipline. Among the topics covered include managing databases, visualizing data, descriptive, predictive, and prescriptive analytics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

All pre-major requirements and completion of Level 2 (Expert) MS Excel Certification or completion of Levels I and II Excel workshops made available by LSBE.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Program Sub-plans

Students are required to complete one of the following sub-plans.

Business Analytics for BBA/BAcc Students

Business Analytics (12 cr)

Group A (9 cr)

MIS 3220 - Database Management and Design (3.0 cr)

Data Visualization

BA 4410 - Data Visualization (3.0 cr)

or BA 5410 - Data Visualization (3.0 cr)

Data Analytics

BA 4420 - Data Analytics for Managerial Decision Making (3.0 cr)

or BA 5420 - Data Analytics for Managerial Decision Making (3.0 cr)

Group B (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- BA 4440 - Spreadsheet Modeling and Decision Analysis (3.0 cr)
- BA 4460 - Big Data Analytics (3.0 cr)
- ECON 3020 - Applied Statistics for Business and Economics II (3.0 cr)
- HCM 4580 - Health Services Data and Analysis (3.0 cr)
- MATH 4180 - Solving Industrial Mathematics Research Problems (3.0 cr)
- MGTS 4489 - Optimization and Decision Making (3.0 cr)
- MGTS 4825 - Human Resource Analytics (3.0 cr)
- MKTG 3731 - Sales Analytics: An Introduction to Sales Analysis Techniques and Applications (3.0 cr)
- STAT 4050 - Introduction to Statistical Computing (3.0 cr)
- STAT 4060 - Introduction to Biostatistics (3.0 cr)

Business Analytics for Economics BA and non-LSBE Students

Pre-Minor Core (20 - 23 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)

or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Computer Science/IT

CS 1511 - Computer Science I [LE CAT] (5.0 cr)

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or MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Business

MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Business Analytics (12 cr)

Group A (9 cr)

MIS 3220 - Database Management and Design (3.0 cr)
BA 4410 - Data Visualization (3.0 cr)
or BA 5410 - Data Visualization (3.0 cr)
BA 4420 - Data Analytics for Managerial Decision Making (3.0 cr)
or BA 5420 - Data Analytics for Managerial Decision Making (3.0 cr)

Group B (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- BA 4440 - Spreadsheet Modeling and Decision Analysis (3.0 cr)
- BA 4460 - Big Data Analytics (3.0 cr)
- ECON 3020 - Applied Statistics for Business and Economics II (3.0 cr)
- HCM 4580 - Health Services Data and Analysis (3.0 cr)
- MATH 4180 - Solving Industrial Mathematics Research Problems (3.0 cr)
- MGTS 4825 - Human Resource Analytics (3.0 cr)
- MKTG 3731 - Sales Analytics: An Introduction to Sales Analysis Techniques and Applications (3.0 cr)
- STAT 4050 - Introduction to Statistical Computing (3.0 cr)
- STAT 4060 - Introduction to Biostatistics (3.0 cr)

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Duluth Campus

Consumer Insights and Analytics B.B.A.

Marketing

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

LSBE's Consumer Insights and Analytics (CIA) will develop students' expertise in handling and analyzing consumer data in order to generate insights that facilitates a business and consumer centric decisions. CIA will train students in the tools and techniques of consumer data analysis and will provide students exposure to a variety of data used in consumer centric decision-making scenarios transactional, digital, survey (quantitative and qualitative) unstructured, and publicly available data. CIA will combine core business knowledge with analytics skills so that graduates can help companies make sense of the vast amounts of consumer data to which they have access to.

Students accepted into the major become participants in the Consumer Insights and Analytics Program with 24/7 access to a special computer lab within LSBE and access to specialized software and industry standard datasets. Students in this major work together with a select group of other top students to learn and use sophisticated software tools to manage, summarize and analyze consumer and transaction data. They learn to use data to generate insights into consumer needs, and identify sales trends and business opportunities. Through intensive practice and connection to our program Advisory Board made up of Industry Leaders, they also learn how to communicate their insights and recommendations confidently in written and oral formats. Students work on live industry projects and make presentations to executive panels.

During spring semester, the application and selection process involves a thorough review of each candidate's application and academic performance, as well as a formal interview. Applicants are reviewed and the top candidates selected for the incoming cohort. Candidates are expected to bring and maintain high academic and ethical standards.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Sophomores interested in this major/minor are strongly encouraged to meet with the CIA Program Director. An initial informational meeting or review of program opportunities helps interested students determine whether or not to pursue formal application and the appropriate prerequisite courses. Applicants are reviewed and selected according to their skills, academic qualifications and "fit" with the program in terms of career goals and interests. Students with a 3.0 UM GPA and a B+ or better in both MATH 1160 (or equivalent) and ECON 2030 (or equivalent) and who have completed the LSBE Excel workshops or achieved MS Excel Certification: Fill out a simple form, automatic admission, subject to space availability. All other students: go through a full application and interview process. Contact the CIA Program Director for the details of the application process.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)

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or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major (37 cr)
ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)
Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,
   b. 2.00 or better Required Major Coursework GPA

Advanced Writing (3 cr)

BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)

MGTS 3301 - Production and Operations Management (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)

Consumer Insights and Analytics (21 cr)

CIA 3760 - Introduction to Consumer Insights & Analytics (3.0 cr)
CIA 4797 - Consumer Analytics Internship (3.0 cr)
MIS 3220 - Database Management and Design (3.0 cr)
BA 4410 - Data Visualization (3.0 cr)
or BA 5410 - Data Visualization (3.0 cr)
MKTG 4731 - Consumer Behavior (3.0 cr)
or MKTG 5731 - Consumer Behavior (3.0 cr)
CIA 4761 - Fundamental Consumer Analytic Techniques (3.0 cr)
or CIA 5761 - Fundamental Consumer Analytic Techniques (3.0 cr)
CIA 4762 - Advanced Consumer Analytics (3.0 cr)
or CIA 5762 - Advanced Consumer Analytics (3.0 cr)

Professional Development (1 cr)

LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)

In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in CIA 4797 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics

Take exactly 1 course(s) from the following:
- ECON 3xxx
- ECON 4xxx
- ECON 5xxx

Take exactly 1 course(s) from the following:
- AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4640 - Medical Anthropology (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ANTH 4653 - Senior Seminar (3.0 cr)
- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)

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•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting

•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics

•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management

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- MGTS 4474 - International Management (3.0 cr)

•Human Resource Management

- MGTS 4861 - International Human Resource Management (3.0 cr)

or MGTS 5861 - International Human Resource Management (3.0 cr)

•Marketing

- MKTG 4774 - International Marketing (3.0 cr)

or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Consumer Insights and Analytics Minor

Marketing

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 41 to 47

LSBE's Consumer Insights and Analytics (CIA) minor will develop students' expertise in handling and analyzing consumer data in order to generate insights that facilitates a business and consumer centric decisions. CIA will train students in the tools and techniques of consumer data analysis and will provide students exposure to a variety of data used in consumer centric decision-making scenarios transactional, digital, survey (quantitative and qualitative) unstructured, and publicly available data. CIA will combine core business knowledge with analytics skills so that graduates can help companies make sense of the vast amounts of consumer data to which they have access to. The minor is open only to BA Economics and non-LSBE students. BBA and BAcc students interested in CIA must major in it.

During spring semester, the application and selection process involves a thorough review of each candidate's application and academic performance, as well as a formal interview. Applicants are reviewed and the top candidates selected for the incoming cohort. Candidates are expected to bring and maintain high academic and ethical standards.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Sophomores interested in this major/minor are strongly encouraged to meet with the CIA Program Director. An initial informational meeting or review of program opportunities helps interested students determine whether or not to pursue formal application and the appropriate prerequisite courses. Applicants are reviewed and selected according to their skills, academic qualifications and "fit" with the program in terms of career goals and interests. Students with a 3.0 UM GPA and a B+ or better in both MATH 1160 (or equivalent) and ECON 2030 (or equivalent) and who have completed the LSBE Excel workshops or achieved MS Excel Certification: Fill out a simple form, automatic admission, subject to space availability. All other students: go through a full application and interview process. Contact the CIA Program Director for the details of the application process.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Pre-Minor Core (20 - 26 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Computer Science/IT

CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Business

MKTG 3701 - Principles of Marketing (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)

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or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Consumer Insights and Analytics (21 cr)

CIA 3760 - Introduction to Consumer Insights & Analytics (3.0 cr)
CIA 4797 - Consumer Analytics Internship (3.0 cr)
MIS 3220 - Database Management and Design (3.0 cr)
BA 4410 - Data Visualization (3.0 cr)
or BA 5410 - Data Visualization (3.0 cr)
MKTG 4731 - Consumer Behavior (3.0 cr)
or MKTG 5731 - Consumer Behavior (3.0 cr)
CIA 4761 - Fundamental Consumer Analytic Techniques (3.0 cr)
or CIA 5761 - Fundamental Consumer Analytic Techniques (3.0 cr)
CIA 4762 - Advanced Consumer Analytics (3.0 cr)
or CIA 5762 - Advanced Consumer Analytics (3.0 cr)

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Duluth Campus

Economics B.A.

Economics & Health Care Management

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 48 to 49
- Degree: Bachelor of Arts

Economics is the study of social, business, and individual decision-making and the goals, incentives, institutions, and constraints affecting those decisions. The University of Minnesota Duluth offers students a choice of two undergraduate degrees in economics: a bachelor of business administration (BBA) degree and a bachelor of arts (BA) degree. This provides economics majors with the opportunity to pursue the college core curriculum that is most suited to their interests and career goals. Any department faculty member will be happy to discuss the two options and advise students as to which degree choice will likely make the most sense. Also department faculty welcomes and encourages student interaction with other students and the faculty through activities such as UROP projects, Omicron Delta Epsilon (honorary society for economics), Economics Club, and other activities and events.

Features of the Economics BA:
Flexibility: design your major around your interests without overly limiting your career options.
Your choice of 15 upper division elective credits (about 5 courses) from a broad range of offerings. Also, if you wish to concentrate in a particular area, Economics faculty can help you do so.
Your choice of any minor or double major. The Economics BA is an attractive and attainable double major option and pairs well with other majors outside LSBE.
Opportunities to get paid or earn credits while working with faculty on research.
Careers in many areas including public policy, law, energy, environment, academics, business, etc. Also, economics majors are often qualified for many jobs that include the word Analyst in the title. Ask a faculty member for specific examples.
Training for graduate school in economics, public policy, law, mathematics, and more.

Note: students pursuing the BA in Economics are not permitted to also receive a BBA in Economics.

Honors Requirements: To be eligible, degree candidates must earn a 3.20 GPA overall. In addition, candidates must earn a 3.20 GPA in economics courses and satisfactorily complete a research project under the guidance of a faculty member or complete an approved internship.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A

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minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.

8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.

2. Completion of the upper division economics core and an overall GPA of 2.80 for an internship and/or independent study.

3. Graduation Requirements:
a. 2.0 or better University of Minnesota cumulative GPA
b. 2.0 or better required major coursework GPA.

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)

BCOM 3141 - Business Communications (3.0 cr)
or WRIT 31xx

Lower Division (17 - 18 cr)

BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or POL 2700 - Methodology and Analysis [LOGIC & QR] (4.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Upper Division (15 cr)

ECON 3022 - Intermediate Macroeconomics (3.0 cr)
ECON 3023 - Intermediate Microeconomics (3.0 cr)

Statistics II

ECON 3020 - Applied Statistics for Business and Economics II (3.0 cr)
or STAT 3612 - Introduction to Probability and Statistics II (3.0 cr)

Econometrics

ECON 3030 - Econometrics I (3.0 cr)
or STAT 5511 - Regression Analysis (3.0 cr)

Development or Global Economics

ECON 3150 - Development Economics (3.0 cr)
or ECON 3402 - Global Economic Issues (3.0 cr)

Electives (12 cr)

By approval, one 3xxx or above course outside of ECON may be applied as ECON 3xxx. No more than 3 credits of any combination of internship, independent study, or courses outside ECON can be used for upper division electives.

Take 4 or more course(s) totaling 12 or more credit(s) from the following:

Take no more than 2 course(s) from the following:

- ECON 3xxx

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- Take 2 or more course(s) totaling 6 or more credit(s) from the following:
  - ECON 4xxx
  - ECON 5xxx
- Take 0 - 3 credit(s) from the following:
  - ECON 4397 - Economics Internship (1.0 - 6.0 cr)
  - ECON 4991 - Independent Study (1.0 - 6.0 cr)

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Duluth Campus

Economics B.B.A.

Economics & Health Care Management

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

Economics is the study of social, business, and individual decision making and the goals, incentives, institutions, and constraints affecting those decisions.

The University of Minnesota Duluth offers students a choice of two undergraduate degrees in economics: a bachelor of business administration (BBA) degree and a bachelor of arts (BA) degree. This provides economics majors with the opportunity to pursue the college core curriculum that is most suited to their interests and career goals. Any department faculty member will be happy to discuss the two options and advise you as to which degree choice will likely make the most sense. Also department faculty welcomes and encourages student interaction with other students and the faculty through activities such as UROP projects, Omicron Delta Epsilon (honorary society for economics), Economics Club, and other activities and events.

Features of the Economics BBA include:
* Specialize in business: focus your major on the business-related aspects of economics.
* Essential business training in economics, accounting, finance, marketing, and management.
* The option of not having an additional minor or major. Opportunities to get paid or earn credits while working with faculty on research.
* Careers in many areas including finance, banking, energy, retail, insurance, antitrust and regulation, etc. Also, economics majors are often qualified for many jobs that include the word Analyst in the title. Ask a faculty member for specific examples.
* Training for graduate school in economics and management (for example, MBA).

Note: students pursuing the BBA in Economics are not permitted to also receive a BA in Economics.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:
- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA. Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academic Services.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

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Pre-Major Requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or Foreign Languages

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

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1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. Learning in Community and all Pre-Major requirements must be completed before admittance in the program.
3. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
4. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
5. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.0 or better required major coursework GPA.

5. Non-LSBE statistics courses cannot be used to fulfill elective requirements.

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)

Economics (24 cr)
ECON 3022 - Intermediate Macroeconomics (3.0 cr)
ECON 3023 - Intermediate Microeconomics (3.0 cr)
Statistics II
ECON 3020 - Applied Statistics for Business and Economics II (3.0 cr)
or STAT 3612 - Introduction to Probability and Statistics II (3.0 cr)
Econometrics
ECON 3030 - Econometrics I (3.0 cr)
or STAT 5511 - Regression Analysis (3.0 cr)
Development or Global Economics
ECON 3150 - Development Economics (3.0 cr)
or ECON 3402 - Global Economic Issues (3.0 cr)
Electives (9 cr)
No more than 3 credits of ECON 4397 can be applied.
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•ECON 4315 - Monetary Theory and Policy (3.0 cr)
•ECON 4397 - Economics Internship (1.0 - 6.0 cr)
•ECON 4512 - Firm Decision and Strategy (3.0 cr)
•ECON 4590 - Economic and Business Forecasting (3.0 cr)
•ECON 3311 - Money and Banking (3.0 cr)
or ECON 3821 - Labor Economics: Theory and Issues (3.0 cr)
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)
•ECON 4613 - Oligopoly and Monopoly (3.0 cr)
or ECON 5613 - Oligopoly and Monopoly (3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (14 cr)
In addition to the international requirements listed below, you may complete up to 3 cr of additional internship cr in ECON 4397 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE) for a total of 14 crs of supporting courses. NOTE PSY 3020 STAT 3411 3611 and SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a 2nd LSBE major or LSBE minor can be applied.
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)

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•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)

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•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
•**Accounting**
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)
•**Economics**
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)
•**Management**
•MGTS 4474 - International Management (3.0 cr)
•**Human Resource Management**
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)
•**Marketing**
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Economics Minor

Economics & Health Care Management

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 29 to 30

The economics minor provides a basic overview of economics for students interested in a complementary discipline.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division (17 - 18 cr)

ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)

Math

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Upper Division (3 cr)

ECON 3022 - Intermediate Macroeconomics (3.0 cr)
or ECON 3023 - Intermediate Microeconomics (3.0 cr)

Electives (9 cr)

No more than 3 credits of any combination of internship or independent study can be used for upper division electives.
Take 9 or more credit(s) from the following:
•ECON 3xxx
•ECON 4xxx

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Duluth Campus

Entrepreneurship B.B.A

Management Studies

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

Entrepreneurship focuses on the creation of social and economic values by developing core capabilities of idea generation, opportunity recognition, resource acquisition, and entrepreneurial management. These capabilities draw on multi-disciplinary experiences including forming teams, constructing business models, talking with partners and customers, and assessing feasibility while launching a new venture or initiative. The skills and competencies gained by studying entrepreneurship are vital for the success of any business or organization, including nascent startup, corporation, family, nonprofit, global, franchise, or any other setting.

Labovitz School of Business and Economics (LSBE) Entrepreneurship major integrates the knowledge and experiences gained in other disciplines, as well as from the field of entrepreneurship, into an understanding of the process of new venture creation, and the management of entrepreneurial businesses. The major provides students with both the breadth and depth of skills necessary to understand the strategic challenges facing a firm: to identify, analyze, and pursue new growth opportunities, and to communicate effectively with critical stakeholders in order to mobilize the support necessary for the creation of new products and services, or the creation of one's own company.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the major, the preferred GPA is:2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA. Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academics.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)

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PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)
Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.0 or better required major coursework GPA.

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Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Entrepreneurship Major (21 cr)
Group A
Take one course from each grouping, for a total of 4 courses, 12 credits.
Law for Entrepreneurs
BLAW 3201 - Law for Entrepreneurs (3.0 cr)
Entrepreneurship
MGTS 4472 - Entrepreneurship (3.0 cr)
or MGTS 5472 - Entrepreneurship (3.0 cr)
Entrepreneurial Finance
MGTS 4921 - Entrepreneurial Finance (3.0 cr)
or MGTS 5921 - Entrepreneurial Finance (3.0 cr)
Developing and Marketing New Products
MKTG 4741 - Developing and Marketing New Products (3.0 cr)
or MKTG 5741 - Developing and Marketing New Products (3.0 cr)
Group B
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•MGTS 4095 - Entrepreneurship Special Topics: (various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4443 - Teams in Organizations (3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)
•MGTS 4941 - Social Entrepreneurship (3.0 cr)
•MGTS 4997 - Entrepreneurial Internship (1.0 - 6.0 cr)
•MGTS 4473 - Management of Innovation and Technology (3.0 cr)
or MGTS 5473 - Management of Innovation and Technology (3.0 cr)
•FIN 4645 - Financial Modeling and Valuation (3.0 cr)
or FIN 5645 - Financial Modeling and Valuation (3.0 cr)
Group C
Any additional course from Group B electives or selected Entrepreneurship oriented pre-approved courses from another discipline (department head consent required) may also be taken.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•MGTS 4461 - Business Ethics (3.0 cr)
•MGTS 4475 - Negotiations, Bargaining and Conflict Resolution (3.0 cr)
•MKTG 3721 - Social Media Marketing (3.0 cr)
•MKTG 3741 - Fundamentals of Selling (3.0 cr)
•MGTS 4478 - Supply Chain Management (3.0 cr)
•MKTG 4731 - Consumer Behavior (3.0 cr)
or MKTG 5731 - Consumer Behavior (3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MGTS 4997 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)

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- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4640 - Medical Anthropology (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ANTH 4653 - Senior Seminar (3.0 cr)
- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
- ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
- ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
- COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
- COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
- COMM 4210 - Theories of Intercultural Communication (3.0 cr)
- ECON 3150 - Development Economics (3.0 cr)
- ECON 3402 - Global Economic Issues (3.0 cr)
- FIN 3649 - International Finance (3.0 cr)
- FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
- FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
- FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
- GEOG 3370 - Geographies of Development (3.0 cr)
- GEOG 3411 - Human Environment Interactions (3.0 cr)
- GEOG 3422 - Natural Hazards (3.0 cr)
- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GEOG 3712 - Geography of Latin America (3.0 cr)
- GEOG 4393 - Political Geography (3.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
- HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
- HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
- HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
- HIST 3386 - The United States and the World since 1898 (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
- HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
- HLTH 4700 - Global Health (3.0 cr)
- INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
- INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
- INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
- LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
- POL 3400 - Contemporary Issues in World Politics (4.0 cr)
- POL 3403 - American Foreign Policy (3.0 cr)
- POL 3420 - International Organization and Global Governance (3.0 cr)
- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3518 - Transitional Politics of Asia (3.0 cr)
- POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- POL 3575 - Latin American Politics and Development (3.0 cr)
- POL 3580 - Central American Politics (3.0 cr)
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
- SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)

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- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
- **Accounting**
  - ACCT 4505 - International Accounting (3.0 cr)
  or ACCT 5505 - International Accounting (3.0 cr)
- **Economics**
  - ECON 4410 - International Economics (3.0 cr)
  or ECON 5410 - International Economics (3.0 cr)
- **Management**
  - MGTS 4474 - International Management (3.0 cr)
- **Human Resource Management**
  - MGTS 4861 - International Human Resource Management (3.0 cr)
  or MGTS 5861 - International Human Resource Management (3.0 cr)
- **Marketing**
  - MKTG 4774 - International Marketing (3.0 cr)
  or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Entrepreneurship Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 31

Entrepreneurship focuses on the creation of social and economic value by developing core capabilities of idea generation, opportunity recognition, resource acquisition, and entrepreneurial management. The skills and competencies gained by studying entrepreneurship are vital for the success of any business or organization such as nascent startup, corporation, family, nonprofit, global, or franchise.

The Entrepreneurship Minor is an interdisciplinary business minor that augments any degree program in which students learn about product/idea generation, resource acquisition, and aspects of entrepreneurial and new venture management. The minor provides knowledge and skills to develop new products, services, and organizations providing social and economic value. The minor is designed to supplement any major such that students acquire capabilities needed to mobilize the support necessary for the creation of new products and services and/or the creation of one's own company.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 60 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

LSBE majors must meet all pre-major BBA or BAc requirements before applying for candidacy, and the form to declare an Entrepreneurship Minor may be submitted with the application for candidacy or any time after formal admission to an LSBE degree program.

Economics BA and Non-LSBE students must have a minimum overall and UM GPA of 2.60 and 2.00 in LSBE courses and completion of the pre-minor core are required for automatic admission to this minor. Students with GPAs between 2.00 and 2.59 should consult with the LSBE Advising and Academic Services Office.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Program Sub-plans

Students are required to complete one of the following sub-plans.

Entrepreneurship for BAA/BAcc Students

This subplan requires 12 credits.

Requirements (12 cr)

BLAW 3201 - Law for Entrepreneurs (3.0 cr)

Entrepreneurship

MGTS 4472 - Entrepreneurship (3.0 cr)

or MGTS 5472 - Entrepreneurship (3.0 cr)

MGTS 4921 - Entrepreneurial Finance (3.0 cr)

or MGTS 5921 - Entrepreneurial Finance (3.0 cr)

Elective

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

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•MGTS 4443 - Teams in Organizations (3.0 cr)
•MGTS 4473 - Management of Innovation and Technology (3.0 cr)
•MGTS 4475 - Negotiations, Bargaining and Conflict Resolution (3.0 cr)
•MGTS 4478 - Supply Chain Management (3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)
•MGTS 4941 - Social Entrepreneurship (3.0 cr)
•MKTG 3721 - Social Media Marketing (3.0 cr)
•MKTG 4741 - Developing and Marketing New Products (3.0 cr)

Entrepreneurship for Economics BA and non LSBE Students

This subplan requires 27 - 31 credits.

Pre-Minor Core (15 - 19 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)

Business

MIS 2201 - Information Technology in Business (3.0 cr)
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Requirements (12 cr)

BLAW 3201 - Law for Entrepreneurs (3.0 cr)
MGTS 4472 - Entrepreneurship (3.0 cr)
or MGTS 5472 - Entrepreneurship (3.0 cr)
MGTS 4921 - Entrepreneurial Finance (3.0 cr)
or MGTS 5921 - Entrepreneurial Finance (3.0 cr)

Elective

Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•MGTS 4443 - Teams in Organizations (3.0 cr)
•MGTS 4473 - Management of Innovation and Technology (3.0 cr)
•MGTS 4475 - Negotiations, Bargaining and Conflict Resolution (3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)
•MGTS 4941 - Social Entrepreneurship (3.0 cr)
•MKTG 3721 - Social Media Marketing (3.0 cr)
•MKTG 4741 - Developing and Marketing New Products (3.0 cr)

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Duluth Campus

Finance B.B.A.

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The study of finance revolves around the management of money. This major helps students understand the theoretical financial principles that guide the management of risks, returns, and cash flow. The quantitatively oriented field of finance helps students develop strong analytical skills and problem-solving abilities. Student learn about the time value of money, valuation of financial assets and the relationship between risk and expected return. They also learn about how the three capital markets (equity, bond, and derivatives) operate and the financial assets traded in each of these markets. They learn to analyze financial statements to evaluate the financial health of a firm and the strategies it employs to create value for its shareholders. This professionally-oriented major is designed for students pursuing careers in corporate financial management. This major prepares students for positions in diverse areas such as Internal Auditing, Commercial Lending, Financial/Corporate Analysis, and Planning & Budget Analysis. Students also go into positions such as Bank Examiner/Manager, Commercial Bank/ Financial Planning Manager, and Security Analysis/Portfolio Management.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA.

Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with a 2.60 UM and overall and a 2.00 internal and pre-major are admitted upon completion of pre-major courses; students with a 2.00-2.59 UM and overall and a 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of Director of the LSBE Advising.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

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PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.0 or better required major coursework GPA

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Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Finance Group A (9 cr)
FIN 3601 - Corporation Finance (3 cr) is a prerequisite for these courses
FIN 3612 - Managerial Finance (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
FIN 3647 - Financial Markets and Institutions (3.0 cr)

Finance Group B (9 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•FIN 3619 - Analysis of Financial Statements (3.0 cr)
•FIN 3620 - Real Estate Finance and Investment (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FIN 3655 - Risk Management and Insurance (3.0 cr)
•FIN 3695 - Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•FIN 4615 - Derivative Securities (3.0 cr)
or FIN 5615 - Derivative Securities (3.0 cr)
•FIN 4617 - Management of Financial Institutions (3.0 cr)
or FIN 5617 - Management of Financial Institutions (3.0 cr)
•FIN 4644 - Portfolio Management (3.0 cr)
or FIN 5644 - Portfolio Management (3.0 cr)
•FIN 4645 - Financial Modeling and Valuation (3.0 cr)
or FIN 5645 - Financial Modeling and Valuation (3.0 cr)

Finance Group C: (3 cr)
FIN 3697 - Finance Internship (1.0 - 6.0 cr)
or FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
or FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
or Any 3xxx or 4xxx course in ACCT, BA, BCOM, BLAW, CIA, ECON, FIN, HCM, MIS, MGTS, MKTG.

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in FIN 3697 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)

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•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
•**Accounting**
  •ACCT 4505 - International Accounting (3.0 cr)
  or ACCT 5505 - International Accounting (3.0 cr)

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- **Economics**
  - ECON 4410 - International Economics (3.0 cr)
  or ECON 5410 - International Economics (3.0 cr)
- **Management**
  - MGTS 4474 - International Management (3.0 cr)
- **Human Resource Management**
  - MGTS 4861 - International Human Resource Management (3.0 cr)
  or MGTS 5861 - International Human Resource Management (3.0 cr)
- **Marketing**
  - MKTG 4774 - International Marketing (3.0 cr)
  or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Finance Minor

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 30

The minor in finance can be used as a complement to a related discipline. It provides a comprehensive overview of the theories and common practices in corporate finance, investment and portfolio management, and the management of financial institutions.

The finance minor is available to LSBE and Non-LSBE students.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Program Sub-plans

Students are required to complete one of the following sub-plans.

Finance Minor for BBA/BAcc Students

Required Courses (12 cr)

FIN 3601 - Corporate Finance (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
FIN 3647 - Financial Markets and Institutions (3.0 cr)

Electives

Take at most 3 credit(s) from the following:

- FIN 3612 - Managerial Finance (3.0 cr)
- FIN 3619 - Analysis of Financial Statements (3.0 cr)
- FIN 3649 - International Finance (3.0 cr)
- FIN 3655 - Risk Management and Insurance (3.0 cr)
- FIN 4615 - Derivative Securities (3.0 cr)
- FIN 4617 - Management of Financial Institutions (3.0 cr)
- FIN 4644 - Portfolio Management (3.0 cr)
- FIN 4645 - Financial Modeling and Valuation (3.0 cr)

Finance Minor for Economics BA and Non-LSBE Students

A minimum overall and UM GPA of 2.60 and 2.oo in LSBE courses and completion of the pre-minor core are required for automatic admission to this minor. Students with GPAs between 2.00 and 2.59 should consult with the LSBE Advising and Academic Services Office.

Pre-Minor Core (15-18 cr)

MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

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ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or Take the following course pair:
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Required Courses (12 cr)

FIN 3601 - Corporate Finance (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)

Electives

Take at most 6 credit(s) from the following:
- FIN 3612 - Managerial Finance (3.0 cr)
- FIN 3619 - Analysis of Financial Statements (3.0 cr)
- FIN 3647 - Financial Markets and Institutions (3.0 cr)
- FIN 3649 - International Finance (3.0 cr)
- FIN 3655 - Risk Management and Insurance (3.0 cr)
- FIN 4615 - Derivative Securities (3.0 cr)
- FIN 4617 - Management of Financial Institutions (3.0 cr)
- FIN 4644 - Portfolio Management (3.0 cr)
- FIN 4645 - Financial Modeling and Valuation (3.0 cr)

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Duluth Campus

Financial Markets Finance B.B.A.

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The Financial Markets Finance BBA is an intensive academic and experiential preparation for careers in the financial services industry. Classroom instruction is combined with independent laboratory activities, and the program is centered upon four foundational elements: academic studies, the January term practicum in Duluth and the Twin Cities, financial markets laboratory work, and management of the "Bulldog" Investment Fund. Students admitted to the major gain exclusive and 24/7 access to the Wells Fargo Financial Markets Lab, a state-of-the-art lab designed to replicate a real world investment setting, where they make strategic investment decision to manage the Bulldog Investment Fund. This non-traditional learning environment offers students the opportunity to apply fundamental, technical, and quantitative analysis techniques and encourages the development of their own methodology towards analyzing investment options within the financial markets. Students develop competencies in investment analysis and are able to evaluate the appropriateness of investments in a broad range of portfolio application. They design strategies for managing investment, while being mindful of the importance of making sound and ethical financial decision in a real-world environment. They apply best practices to create, evaluate, and rebalance investment portfolios to achieve designed outcomes.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Interested students are encouraged to meet with the Financial Markets Program Director. Juniors who have an interest in the financial industry, and who have completed or are currently registered for FIN 3601 should speak with the program director prior to registration for spring. An informational meeting of program opportunities helps interested students determine if they should pursue formal application and prerequisite courses. During spring semester, the application and selection process involves a review of each candidates application, academic performance, and a formal interview. Applicants are reviewed and selected according to their skills, academic qualification and "fit" with the program in terms of career goals & interests. Candidates are expected to maintain high ethical standards. For admission to the major, the preferred GPA is: 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)

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MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or World Languages

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

2. Students must complete FIN 3601, FIN 3619, and FIN 3644 before admission to the program.
Students must first meet admission to candidacy requirements and be admitted to the finance major, which is necessary to be eligible for the prerequisite courses. Students are then admitted into the financial markets finance major after successful completion of the prerequisites and selection from the individual interview process.

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3. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.

4. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.

5. Graduation Requirements:
a. 2.0 or better University of Minnesota cumulative GPA
b. 2.0 or better required major coursework GPA

6. Non-LSBE statistics courses cannot be used to fulfill elective requirements.

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Group A (12 cr)
FIN 3612 - Managerial Finance (3.0 cr)
FIN 3619 - Analysis of Financial Statements (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
Take 1 or more course(s) from the following:
•FIN 3647 - Financial Markets and Institutions (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FIN 4615 - Derivative Securities (3.0 cr)
or FIN 5615 - Derivative Securities (3.0 cr)
•FIN 4644 - Portfolio Management (3.0 cr)
or FIN 5644 - Portfolio Management (3.0 cr)
•FIN 4645 - Financial Modeling and Valuation (3.0 cr)
or FIN 5645 - Financial Modeling and Valuation (3.0 cr)

Group B (9 cr)
Take exactly 3 course(s) totaling exactly 9 credit(s) from the following:
•FIN 4616 - Security Analysis (3.0 cr)
or FIN 5616 - Security Analysis (3.0 cr)
•FIN 4620 - Portfolio Theory and Analysis (3.0 cr)
or FIN 5620 - Portfolio Theory and Analysis (3.0 cr)
•FIN 4624 - Applied Portfolio Management (3.0 cr)
or FIN 5624 - Applied Portfolio Management (3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in FIN 3697 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)

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•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)

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•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
•**Accounting**
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)
•**Economics**
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)
•**Management**
•MGTS 4474 - International Management (3.0 cr)
•**Human Resource Management**
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)
•**Marketing**
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Financial Markets Minor

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 18

LSBE candidates or economics majors may wish to apply for the financial markets minor program, an intensive academic and experiential preparation for careers in the financial services industry. Students interested in this program are strongly encouraged to meet with the Financial Markets Program Director.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 3 courses before admission to the program.

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Admission to the minor is based on the same GPA requirements as admission to candidacy for LSBE baccalaureate degrees.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Required pre-requisites (9 cr)

Students are admitted into the minor program after successful completion of the prerequisite courses and selection from the individual interview process.

FIN 3601 - Corporate Finance (3.0 cr)
FIN 3619 - Analysis of Financial Statements (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)

Minor Requirements

Required Courses (9 cr)

Take 3 courses totaling exactly 9 credits.

FIN 4616 - Security Analysis (3.0 cr)
FIN 4620 - Portfolio Theory and Analysis (3.0 cr)
FIN 4624 - Applied Portfolio Management (3.0 cr)

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Duluth Campus

Financial Planning B.B.A.

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The BBA in Financial Planning integrates the knowledge, skills, and experiences gained in the core business and economics disciplines such as accounting, economics, finance, management, and marketing, as well as from the field of financial planning, into an understanding of the financial planning domains and business processes. Students will learn how to utilize new technologies to study and analyze investments, risks, retirement, insurance, and estate planning. The program provides students with a foundation for immediate integration into the practices in the financial planning industry. Students pursuing Financial Planning as a major are well prepared for careers in financial planning in many different facets of the industry. Students can build a private practice or work with financial institutions, registered investment advisers, insurance companies, broker/dealers, and even non-profit entities. The program is registered with the Certified Financial Planner Board of Standards, Inc. (CFP Board) and is grounded with the core courses that will fulfill the educational requirements to take the CFP (Certified Financial Planner) exam.

LSBE Honors Requirement: GPA of all upper division (3xxs or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 60 credits before admission to the program.

Students interested in the major are encouraged to meet with the Financial Planning Program Director. Sophomores who have an interest in the financial planning industry are encourage to have an initial informational meeting with the program director prior to registration for Fall semester. During spring semester, the application and selection process involves a thorough review of each candidate's application and academic performance, as well as an-person conversation with the program director. Applicants are reviewed and selected according to their skills, academic qualification and "fit" with the program in terms of career goals and interests. Candidates are expected to maintain high ethical standards. For admission to the major, the preferred GPA is:2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 Pre-major Coursework GPA. A student majoring in Financial Planning cannot simultaneously major in both Accounting and Finance.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)

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WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or World Languages

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirement:
   a. 2.0 or better University of Minnesota cumulative GPA;
   b. 2.00 or better required major coursework GPA
5. Non-LSBE statistics courses cannot be used to fulfill elective requirements.

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Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Financial Planning Group A (18 cr)
ACCT 3401 - Individual Income Taxation (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
FIN 3655 - Risk Management and Insurance (3.0 cr)
ACCT 4600 - Employee Benefit and Retirement Planning (3.0 cr)
or ACCT 5600 - Employee Benefit and Retirement Planning (3.0 cr)
BLAW 4301 - Estate Planning Concepts and Strategies (3.0 cr)
or BLAW 5301 - Estate Planning Concepts and Strategies (3.0 cr)
FIN 4646 - Financial Plan Development (3.0 cr)
or FIN 5646 - Financial Plan Development (3.0 cr)

Financial Planning Group B (3 cr)
Take 3 or more credit(s) from the following:
- MGTS 4461 - Business Ethics (3.0 cr)
- MKTG 3721 - Social Media Marketing (3.0 cr)
- MKTG 3741 - Fundamentals of Selling (3.0 cr)
- ACCT 4402 - Advanced Business Taxation (3.0 cr)
  or ACCT 5402 - Advanced Business Taxation (3.0 cr)
- MGTS 4472 - Entrepreneurship (3.0 cr)
  or MGTS 5472 - Entrepreneurship (3.0 cr)
- MKTG 4731 - Consumer Behavior (3.0 cr)
  or MKTG 5731 - Consumer Behavior (3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in FIN 3697 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics
Take exactly 1 course(s) from the following:
- ECON 3xxx
- ECON 4xxx
- ECON 5xxx

Take exactly 1 course(s) from the following:
- AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
- AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
- AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
- AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
- ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
- ANTH 3632 - Latin American Cultures (3.0 cr)
- ANTH 3635 - Anthropology of Europe (3.0 cr)
- ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
- ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
- ANTH 4640 - Medical Anthropology (4.0 cr)
- ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
- ANTH 4653 - Senior Seminar (3.0 cr)
- ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
- ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
- ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)

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•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management
•MGTS 4474 - International Management (3.0 cr)

•Human Resource Management

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•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)

•**Marketing**
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Financial Planning Minor

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 24 to 36

The financial planning minor is designed to be a Certified Financial Planner (CFP) board-registered program so it can be used to fulfill the education requirements for the CFP certification. Upon completion of this program, students are eligible to sit for the CFP Board of Standard certification examination, leading to the professional CFP designation.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Admission to the minor is competitive and a planned admission process will be established to manage the cohort through the two-year time frame.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The Financial Planning minor is available to both LSBE students and non-LSBE students. Requirements are described below.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Financial Planning Minor for BBA/BAcc Students

Financial Planning (24 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 3401 - Individual Income Taxation (3.0 cr)
ACCT 4600 - Employee Benefit and Retirement Planning (3.0 cr)
BLAW 4301 - Estate Planning Concepts and Strategies (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
FIN 3655 - Risk Management and Insurance (3.0 cr)
FIN 4646 - Financial Plan Development (3.0 cr)

Financial Planning Minor - Econ BA & Non-LSBE

Pre-minor Requirements (15 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
An equivalent statistics course may be allowed in place of ECON 2030; students must consult with an adviser for prior approval.

Upper Division Prerequisite Requirement (3 cr)

FIN 3601 - Corporate Finance (3.0 cr)

Financial Planning Required Courses (18 cr)

ACCT 3401 - Individual Income Taxation (3.0 cr)
ACCT 4600 - Employee Benefit and Retirement Planning (3.0 cr)

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BLAW 4301 - Estate Planning Concepts and Strategies (3.0 cr)
FIN 3644 - Investment Fundamentals (3.0 cr)
FIN 3655 - Risk Management and Insurance (3.0 cr)
FIN 4646 - Financial Plan Development (3.0 cr)

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Duluth Campus

Health Care Management B.B.A.

Economics & Health Care Management

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The health care management major focuses on the administration, financing, and economics of the health services sector. The program prepares students for careers in health care administration and policy in hospitals, clinics, government agencies, insurance and managed care organizations, pharmaceutical and biotechnology firms, medical device companies, and consulting agencies.

Students gain an understanding of the many critical issues in health care delivery, such as health care quality assessment and improvement, health information technology applications, health care ethics, compliance with health care regulations, physician contracting and reimbursement, and billing and claims processing. Students learn about health policy and health care reform, such as proposals for universal health insurance coverage and the structure of health care systems outside of the United States.

This professionally-oriented program also emphasizes the competencies required for management careers in business, government, public, or social service organizations. The program prepares students for entering careers with management responsibility by providing breadth and depth of knowledge about organizations, management fundamentals, techniques, processes, and skills, combined with a foundation in the functional areas of accounting, business law, finance, health care management, information systems, marketing, operations, and human resource management.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA.Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academic Services.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)

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MIS 2201 - Information Technology in Business (3.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,

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b. 2.00 or better required major coursework GPA
5. Non-LSBE statistics courses cannot be used to fulfill elective requirements.

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Health Care Management Group A (12 cr)
Take the one course from each grouping, for a total of four courses, 12 credits.
Organization and Management
HCM 4520 - Health Care Organization and Management (3.0 cr)
Ethics
HCM 4530 - Legal Aspects of and Ethics in Health Care (3.0 cr)
or HCM 5530 - Legal Aspects of and Ethics in Health Care (3.0 cr)
Quality Management
HCM 4570 - Health Care Quality Management (3.0 cr)
or HCM 5570 - Health Care Quality Management (3.0 cr)
Internship
Take for 3 credits.
HCM 4597 - Internship (1.0 - 6.0 cr)

Health Care Management Group B (9 cr)
A non-HCM 3xxx-4xxx level course can apply with prior approval. Only one study abroad course may be used to meet this requirement. {HCM 4520, 4530, 4570, 4597, 5530, or 5570 cannot be used to fulfill this requirement.}
Take 9 or more credit(s) from the following:
•MIS 4220 - Healthcare Informatics (3.0 cr)
•HCM 45xx
•HCM 55xx

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in HCM 4597 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)

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•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting

•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics

•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management

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- MGTS 4474 - International Management (3.0 cr)

•Human Resource Management

- MGTS 4861 - International Human Resource Management (3.0 cr)

or MGTS 5861 - International Human Resource Management (3.0 cr)

•Marketing

- MKTG 4774 - International Marketing (3.0 cr)

or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Health Care Management Minor

Economics & Health Care Management

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 15 to 30

The health care management minor teaches students about the health care system and how to apply management, economic, and legal methods to solve health care service problems. A minor in health care management complements the existing business majors, particularly for students who would like to apply their skills and knowledge in the health care sector.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

This minor is available to Labovitz School of Business and Economics and non-LSBE students. Requirements for admission to the minor are the same for admission to candidacy.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Health Care Management Minor for BBA/BAcc Students

Core (12 cr)

ECON 3910 - Economics of Health Care (3.0 cr)
HCM 4520 - Health Care Organization and Management (3.0 cr)
HCM 4530 - Legal Aspects of and Ethics in Health Care (3.0 cr)
HCM 4570 - Health Care Quality Management (3.0 cr)

Electives (3 cr)

Take 3 or more credit(s) from the following:
•Any HCM 45xx course
•MIS 4220 - Healthcare Informatics (3.0 cr)
•An LSBE or non-LSBE 3xxx-4xxx course, including any upper division study abroad course (FST 42**) may be taken with prior approval. Only one study abroad course may be used to meet this requirement. {ECON 3910, HCM 4520, 4530, and 4570 cannot be used to fulfill this requirement

Health Care Management Minor for Econ BA and Non-LSBE Students

Pre-Minor Core (15-18 cr)

Students are encouraged to complete ECON 1022 and 1023 as pre-minor core prerequisites.
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or Take the following course pair:
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)

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ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Requirements (12 cr)

ECON 3910 - Economics of Health Care (3.0 cr)
HCM 4520 - Health Care Organization and Management (3.0 cr)
HCM 4530 - Legal Aspects of and Ethics in Health Care (3.0 cr)
HCM 4570 - Health Care Quality Management (3.0 cr)

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Duluth Campus

Human Resource Management B.B.A.

Management Studies

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The work of human resource management (HRM) professional encompasses a broad range of activities affecting the relationship between an organization and its employees - its human resources. HRM involved strategic functions, such as organizational planning and human resource policy making, and diverse activities that involve designing and implementing policies and selecting, developing, evaluating, and rewarding a workforce. This major prepares students for managing HRM responsibilities such as equal employment opportunity, the study and design of jobs, employee benefit programs, union-management relations, counseling, and the development of work systems that are consistent with the prevailing organizational philosophy.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken at LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Freshmen and transfer students are typically admitted as pre-business students. For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 Pre-major Coursework GPA. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with a 2.60 UM and overall, and 2.00 internal and pre-major GPAs, are admitted upon completion of pre-major courses; students with a 2.00-2.59 UM and overall, 2.00 internal and pre-major GPAs, are pooled and reviewed for evidence of academic success in LSBE majors.

Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the director of Student Affairs.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

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Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,
   b. 2.00 or better Required Major Coursework GPA
5. Non-LSBE statistics courses cannot be used to fulfill elective requirements.

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Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)

Group A Electives (15 cr)
Take 5 or more course(s) totaling 15 or more credit(s) from the following:
•MGTS 4475 - Negotiations, Bargaining and Conflict Resolution (3.0 cr)
•MGTS 4825 - Human Resource Analytics (3.0 cr)
•MGTS 4841 - Training and Development (3.0 cr)
•MGTS 4871 - Strategic Human Resource Management (3.0 cr)
•MGTS 4881 - Human Resource Issues and Trends (3.0 cr)
•MGTS 4895 - Special Topics: (Various Titles to be Assigned) (3.0 cr)
•MGTS 4821 - Staffing Work Organizations (3.0 cr)
or MGTS 5821 - Staffing Work Organizations (3.0 cr)
•MGTS 4831 - Compensation Systems (3.0 cr)
or MGTS 5831 - Compensation Systems (3.0 cr)
•MGTS 4851 - Labor Relations (3.0 cr)
or MGTS 5851 - Labor Relations (3.0 cr)
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)

Group B Electives (total of 2 courses required from 2 different categories) (6 cr)
1. Additional course from Group A.
2. ECON 3821 or selected human resource-oriented course from other discipline (department head consent required).
3. Upper division organizational management course (MGTS 44xx), HCM 4520 - Health Care Organization and Management or MIS 3241 - Data Analytics; FST 4225 or 4295 may also be used.
4. Internship/Field Studies
MGTS 3897 - Human Resources Internship (1.0 - 6.0 cr)
or MGTS 3997 - Management of Community Projects (1.0 - 3.0 cr)

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MGTS 3897 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611, & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)

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•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting

•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics

•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management

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- MGTS 4474 - International Management (3.0 cr)

•Human Resource Management

- MGTS 4861 - International Human Resource Management (3.0 cr)

or MGTS 5861 - International Human Resource Management (3.0 cr)

•Marketing

- MKTG 4774 - International Marketing (3.0 cr)

or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Human Resource Management Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 30

The work of the human resource management (HRM) professional encompasses a broad range of activities affecting the relationship between an organization and its employees, its human resources. HRM involved strategic functions, such as organizational planning and human resource policy making, and diverse activities that involve designing and implementing policies, and selecting, developing, evaluating, and rewarding a workforce. This minor prepares students for managing HRM responsibilities such as equal employment opportunities, the study and design of jobs, employee benefit programs, union-management relations, counseling, and the development of work systems that are consistent with the prevailing organizational philosophy.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the minor, the preferred GPA is as follows:
a) 2.60 Cumulative (overall) GPA
b) 2.60 University of Minnesota GPA
c) 2.00 LSBE Coursework (internal) GPA
d) 2.00 Pre-major GPA

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Program Sub-plans

Students are required to complete one of the following sub-plans.

Human Resource Management Minor for BBA/BAcc Students

Requirements (12 cr)

MGTS 3801 - Human Resource Management (3.0 cr)
Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- MGTS 4821 - Staffing Work Organizations (3.0 cr)
- MGTS 4825 - Human Resource Analytics (3.0 cr)
- MGTS 4831 - Compensation Systems (3.0 cr)
- MGTS 4841 - Training and Development (3.0 cr)
- MGTS 4851 - Labor Relations (3.0 cr)
- MGTS 4861 - International Human Resource Management (3.0 cr)
- MGTS 4871 - Strategic Human Resource Management (3.0 cr)
- MGTS 4881 - Human Resource Issues and Trends (3.0 cr)
- MGTS 4895 - Special Topics: (Various Titles to be Assigned) (3.0 cr)

Human Resource Management Minor Econ BA and non-LSBE Students

Pre-Minor Core (15-18 cr)

Students are encouraged to complete ECON 1022 and 1023 as pre-minor core prerequisites.
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
Accounting
ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)
Economics
ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)

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or Take the following course pair:
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Requirements (12 cr)

MGTS 3801 - Human Resource Management (3.0 cr)
Take 3 or more course(s) totaling at most 9 credit(s) from the following:
- MGTS 4821 - Staffing Work Organizations (3.0 cr)
- MGTS 4825 - Human Resource Analytics (3.0 cr)
- MGTS 4831 - Compensation Systems (3.0 cr)
- MGTS 4841 - Training and Development (3.0 cr)
- MGTS 4851 - Labor Relations (3.0 cr)
- MGTS 4861 - International Human Resource Management (3.0 cr)
- MGTS 4871 - Strategic Human Resource Management (3.0 cr)
- MGTS 4881 - Human Resource Issues and Trends (3.0 cr)
- MGTS 4895 - Special Topics: (Various Titles to be Assigned) (3.0 cr)

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Duluth Campus

International Business Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12

The international business minor is an interdisciplinary business minor that enhances students knowledge of global issues within organizations and the business environment. The minor will provide students with an increased awareness of challenges and opportunities associated with the globalization of the marketplace and the workplace.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 45 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

This minor is for only for LSBE majors who must meet all pre-major BBA or BAc requirements before applying for candidacy for these degree programs, and the form to declare an international business minor may be submitted with the application for candidacy or any time after formal admission to an LSBE degree program

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Group A (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- ACCT 4505 - International Accounting (3.0 cr)
- FIN 3649 - International Finance (3.0 cr)
- MGTS 4474 - International Management (3.0 cr)
- MGTS 4861 - International Human Resource Management (3.0 cr)
- MKTG 4774 - International Marketing (3.0 cr)

Group B (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- ECON 3150 - Development Economics (3.0 cr)
- ECON 3402 - Global Economic Issues (3.0 cr)
- ECON 4410 - International Economics (3.0 cr)
- HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
- INTB 3xxx
- INTB 4xxx

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Duluth Campus

Management B.B.A.

Management Studies

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

Managers facilitate the work of others to accomplish goals that might not be achieved by a single individual. They need to know about the environment surrounding the organization, the roles that managers can play, and the techniques that effectively guide employees. The curriculum allows students to become familiar with different types of organization and their members. Students learn the administrative and fundamental skills demanded of leaders in today's public and private organizations. Among the many topics covered are organizational environments, groups and teams at work, leadership, and employee empowerment. Students are also given the opportunity to learn more about organizations' complex systems.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Freshmen and transfer students are typically admitted as pre-business students. For admission to the major, the preferred GPA is: 2.60 or better, cumulative UMD overall GPA; 2.60 or better, University of Minnesota cumulative GPA; 2.00 Pre-major Coursework GPA. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with a 2.60 UM overall, and 2.00 internal and pre-major GPAs, are admitted upon completion of pre-major courses; students with a 2.00-2.59 UM overall, 2.00 internal and pre-major GPAs, are pooled and reviewed for evidence of academic success in LSBE majors.

Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the director of Student Affairs.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

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Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,
   b. 2.00 or better Required Major Coursework GPA

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Information current as of January 17, 2023

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Organizational Management Group A (9 cr)
Take one course from each of the three categories, totaling 9 credits.
Category 1: Macro OB courses:
MGTS 4295 - Special Macro Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
or MGTS 4411 - High Performance Organization Design and Transformation (3.0 cr)
or MGTS 4474 - International Management (3.0 cr)
Category 2: Micro OB courses:
MGTS 4195 - Micro Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
or MGTS 4431 - Leadership Studies (3.0 cr)
or MGTS 4443 - Teams in Organizations (3.0 cr)
or MGTS 4451 - Management Inquiry (3.0 cr)
or MGTS 5431 - Leadership Studies (3.0 cr)
Category 3: Ethics and sustainability:
MGTS 4461 - Business Ethics (3.0 cr)
or MGTS 4463 - Foundations of Sustainable Management (3.0 cr)
or MGTS 4941 - Social Entrepreneurship (3.0 cr)
or MGTS 5463 - Foundations of Sustainable Management (3.0 cr)

Organizational Management Group B (9 cr)
No more than 3 credits of MGTS 3497 may apply to this requirement.
Take 3 or more course(s) totaling 9 or more credit(s) from the following:
•1 or more courses from Group A
•MGTS 3497 - Organizational Management Internship (1.0 - 6.0 cr)
•MGTS 4395 - Process Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4475 - Negotiations, Bargaining and Conflict Resolution (3.0 cr)
•MGTS 4478 - Supply Chain Management (3.0 cr)
•MGTS 4489 - Optimization and Decision Making (3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)
•MGTS 4472 - Entrepreneurship (3.0 cr)
or MGTS 5472 - Entrepreneurship (3.0 cr)
•MGTS 4473 - Management of Innovation and Technology (3.0 cr)
or MGTS 5473 - Management of Innovation and Technology (3.0 cr)

Organizational Management Group C (3 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•One additional Group B course
•Any upper division LSBE elective in ACCT, BA, BCOM, BLAW, ECON, FIN, HCM, MGTS, MKTG or MIS. FST 4225 or 4295 may be used. Internships from other disciplines cannot be used to fulfill this requireme

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MGTS 3497 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:

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•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)

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•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
•**Accounting**
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)
•**Economics**
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)
•**Management**
•MGTS 4474 - International Management (3.0 cr)
•**Human Resource Management**
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)
•**Marketing**
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Information current as of January 17, 2023

Duluth Campus

Management Information Systems B.B.A.

Accounting and Finance

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The Management Information Systems (MIS) major prepares students for entry-level careers in business computing and managing information technology (IT). The major gives students both in-depth technical skills needed to design, implement, support, and manage information systems, as well as the breadth of knowledge to provide integrative, technology-based solutions in all business functional areas. Unlike majors in Computer Science or Computer Engineering, the focus of the MIS major is on the use of IT to store, retrieve, communicate, and deploy data and information to solve business problems.

Students develop competencies that enable them to analyze businesses processes and organizational problems, identify information needs and develop solutions to address those needs. They will learn how to generate, manage, distribute, and use information that best leverages an organization's IT-enabled infrastructure, MIS graduates work in positions such as business system analysts, software and application developers, system architects, web-masters, database administrators, data analysts, IT consultants, information security managers, technical support specialists, and often become project managers and entrepreneurs.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the major, the preferred GPA is: 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 Pre-major Coursework GPA.
Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status typically occurs at the end of the sophomore year when students have successfully completed all pre-major course requirements and met GPA standards. Students with 2.60 UM and overall, and 2.00 internal and pre-major GPAs, are admitted upon completion of pre-major courses; students with 2.00-2.59 UM and overall, and 2.00 internal and pre-major GPAs, are pooled and reviewed for evidence of academic success in LSBE majors.

Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academic Services.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

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LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or World Languages

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.00 or better Required Major Coursework GPA

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Information current as of January 17, 2023

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Management Info Systems Group A (12 cr)
MIS 3220 - Database Management and Design (3.0 cr)
MIS 3223 - Systems Analysis and Design (3.0 cr)
MIS 3232 - Computer Programming for Business (3.0 cr)
Advanced Application Development
MIS 4225 - Advanced Applications Development (3.0 cr)
or MIS 5225 - Advanced Applications Development (3.0 cr)

Management Info Systems Group B (6 cr)
MIS 3220, 4223, 5223, 3232, 4225, or 5225 may not be used to fulfill this requirement.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•MIS 32xx, 42xx, 52xx
•BA 44xx, 54xx
•MIS 3297 - MIS Internship (1.0 - 6.0 cr)

Management Information Systems Group C (3 cr)
Take 3 or more credit(s) from the following:
•Additional course from Group B
or ACCT 3301 - Accounting Information Systems (3.0 cr)
or COMM 3211 - Communication and Technology in the Information Age (3.0 cr)
or COMM 3560 - Video Game Entertainment (3.0 cr)
or JOUR 3700 - Media Law and Ethics (3.0 cr)
or MGTS 4443 - Teams in Organizations (3.0 cr)
or MGTS 4489 - Optimization and Decision Making (3.0 cr)
or WRIT 4220 - Document Design and Graphics (3.0 cr)
or WRIT 4230 - Web Design and Digital Culture (3.0 cr)
or WRIT 4250 - New Media Writing (3.0 cr)
or WRIT 4260 - Visual Narrative and Analytical Design (3.0 cr)
or MGTS 4472 - Entrepreneurship (3.0 cr)
or MGTS 5472 - Entrepreneurship (3.0 cr)
or MGTS 4473 - Management of Innovation and Technology (3.0 cr)
or MGTS 5473 - Management of Innovation and Technology (3.0 cr)
or Selected upper division technology orientated course from other disciplines with MIS faculty consent.

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MIS 3297 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)

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•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)

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- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
- WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)
- **Accounting**
  - ACCT 4505 - International Accounting (3.0 cr)
  or ACCT 5505 - International Accounting (3.0 cr)
- **Economics**
  - ECON 4410 - International Economics (3.0 cr)
  or ECON 5410 - International Economics (3.0 cr)
- **Management**
  - MGTS 4474 - International Management (3.0 cr)
- **Human Resource Management**
  - MGTS 4861 - International Human Resource Management (3.0 cr)
  or MGTS 5861 - International Human Resource Management (3.0 cr)
- **Marketing**
  - MKTG 4774 - International Marketing (3.0 cr)
  or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Management Information Systems Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 30

The MIS minor provides a general overview of the design, implementation, and management of information systems in business.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The management information systems minor is available to LSBE and non-LSBE students.

Program Sub-plans

Students are required to complete one of the following sub-plans.

MIS Minor for BBA/BAcc Students

Group A Requirement (6 cr)

MIS 3220 - Database Management and Design (3.0 cr)
MIS 3223 - Systems Analysis and Design (3.0 cr)

Group B Requirement (6 cr): Electives

Take exactly 6 credit(s) from the following:

- MIS 3224 - Data Communications and Computer Networks (3.0 cr)
- MIS 3232 - Computer Programming for Business (3.0 cr)
- MIS 4220 - Healthcare Informatics (3.0 cr)

MIS Minor for Non-LSBE Students

An overall and UM GOA of 2.60 and 2.0 in LSBE courses and completion of the pre-minor core are required for automatic admission to this minor. Students with GPAs between 2.00 and 2.59 should consult with the LSBE Advising and Academic Services Office.

Pre-Minor Core (15-18 cr)

Students are encouraged to complete ECON 1022 and 1023 as pre-minor core prerequisites.
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or Take the following course pair:
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)

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or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Group A Requirement (6 cr)

MIS 3220 - Database Management and Design (3.0 cr)
MIS 3223 - Systems Analysis and Design (3.0 cr)

Group B Requirement (6 cr): Electives

Take exactly 6 credit(s) from the following:

- MIS 3224 - Data Communications and Computer Networks (3.0 cr)
- MIS 3232 - Computer Programming for Business (3.0 cr)
- MIS 4220 - Healthcare Informatics (3.0 cr)

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Duluth Campus

Management Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 30

Managers facilitate the work of others to accomplish goals that might not be achieved by a single individual and need to know about the environment surrounding the organization, the roles that managers can play, and the techniques that effectively guide employees. The curriculum allows students to become familiar with different types of organization and their members. Students learn the administrative and fundamental skills demanded of leaders in today's public and private organizations. Among the many topics covered are organizational environment, groups and teams at work, leadership, and employee empowerment. Student are given the opportunity to learn more about organisations' complex systems.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The management minor is available to LSBE and Non-LSBE students.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Management for BAA/BAcc Students

Required Courses (12 cr)

MGTS 3401 - Organizational Behavior and Management (3.0 cr)

Group A

Courses must be from 2 different categories.

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

Macro

Take 0 or more course(s) from the following:

- MGTS 4295 - Special Macro Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
- MGTS 4411 - High Performance Organization Design and Transformation (3.0 cr)
- MGTS 4474 - International Management (3.0 cr)

Micro

Take 0 or more course(s) from the following:

- MGTS 4195 - Micro Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
- MGTS 4431 - Leadership Studies (3.0 cr)
- MGTS 4443 - Teams in Organizations (3.0 cr)
- MGTS 4451 - Management Inquiry (3.0 cr)

Management

Take 0 or more course(s) from the following:

- MGTS 4461 - Business Ethics (3.0 cr)
- MGTS 4463 - Foundations of Sustainable Management (3.0 cr)
- MGTS 4941 - Social Entrepreneurship (3.0 cr)

Group B

MGTS 4481 does not count towards this requirement.

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Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•One MGTS 44xx course
•MGTS 4395 - Process Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)

Management for Economics BA and non-LSBE Students

Pre-Minor Core (15-18 cr)

Students are encouraged to complete ECON 1022 and 1023 as pre-minor core prerequisites.
MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
or Take the following course pair:
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
or PSY 3020 - Statistical Methods (4.0 cr)
or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)
or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Required Courses (12 cr)

MGTS 3401 - Organizational Behavior and Management (3.0 cr)

Group A

Courses must be from 2 different categories.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:

Macro

Take 0 or more course(s) from the following:
•MGTS 4295 - Special Macro Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4411 - High Performance Organization Design and Transformation (3.0 cr)
•MGTS 4474 - International Management (3.0 cr)

•Micro

Take 0 or more course(s) from the following:
•MGTS 4195 - Micro Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4431 - Leadership Studies (3.0 cr)
•MGTS 4443 - Teams in Organizations (3.0 cr)
•MGTS 4451 - Management Inquiry (3.0 cr)

•Management

Take 0 or more course(s) from the following:
•MGTS 4461 - Business Ethics (3.0 cr)
•MGTS 4463 - Foundations of Sustainable Management (3.0 cr)
•MGTS 4941 - Social Entrepreneurship (3.0 cr)

Group B

MGTS 4481 does not count towards this requirement.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•One MGTS 44xx course
•MGTS 4395 - Process Special Topics: (Various Titles to be Assigned) (1.0 - 3.0 cr)
•MGTS 4931 - Family Business Management (3.0 cr)

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Duluth Campus

Marketing and Graphic Design B.B.A.

Marketing

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 107
- Degree: Bachelor of Business Administration

Marketing and Graphic Design (MGD) combines knowledge and skills from two complementary domains: marketing and graphic design. This unique major is the result of a collaboration between LSBE and the College of Arts, Humanities and Social Sciences. Students enrolled in this major will get a broad exposure to the fundamentals of business and economics. In addition, they will receive specialized training in marketing and creative design. The degree enables graduates to work effectively in industry-standard creative teams, moving from empirically identifying and measuring consumer needs and desires to the design of effective promotional graphic systems and materials. Students in the major learn to solve visual communication problems powerfully, effectively and responsibly, using conceptual thinking, imagery typography, and type-and-usage combinations, all with a high degree of usability. They also learn to work collaboratively with a creative team to research, design, and implement effective marketing strategies.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Interested students are encouraged to meet with the faculty advisor for the major to discuss program opportunities to help students determine whether to pursue formal application. Students can be admitted as pre-majors in their freshman/sophomore years. Admission, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed pre-major requirements and met GPA standards. Along with the application and selection process, there is a thorough review of the candidate's application, portfolio, and academic performance, as well as a formal interview. Applicants are selected according to their skills, academic qualifications, and "fit" in terms of goals and interests. Candidates are expected to maintain high ethical standards. For admission to the major, the preferred GPA is: 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better pre-major coursework GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post-high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Requirements (33 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or World Language

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)

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or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. 12 credits of coursework from Marketing Group A and Marketing Electives Group B must be taken from LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA
   b. 2.0 or better required major coursework GPA
5. Students enrolled in Marketing and Graphic Design BBA will not be eligible to major or minor in Marketing because of the curriculum overlap.

Advanced Writing (3 cr)

BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

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Arts/Design Lower Division (15 cr)
ART 1011 - 2-D Design (3.0 cr)
ART 1013 - 2-D Digital Design (3.0 cr)
ART 1900 - Visual Literacy [LE CAT, FINE ARTS] (3.0 cr)
ART 2905 - Design Technology I (3.0 cr)
ART 2907 - Typography I (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Marketing Group A (9 cr)
MKTG 3711 - Marketing Research (3.0 cr)
MKTG 4721 - Advertising and Marketing Communications (3.0 cr)
or MKTG 5721 - Advertising and Marketing Communications (3.0 cr)
MKTG 4731 - Consumer Behavior (3.0 cr)
or MKTG 5731 - Consumer Behavior (3.0 cr)

Marketing Electives Group B (9 cr)
CIA 3760, 3767 or4797, 4761 or 5761, 4762 or 5762 and Mktg 3711, 4721 or 5721, 4731 or 5731 may not be used to fulfill this requirement.
Take 9 or more credits from the following:
MKTG 37xx
or MKTG 47xx
or MKTG 57xx
or FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
or FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)

Arts/Design Electives Group C (12 cr)
Take 12 or more credit(s) from the following:
•ART 2906 - Design Technology II (3.0 cr)
•ART 2911 - Graphic Design I (3.0 cr)
•ART 3922 - Graphic Design II (3.0 cr)
•ART 3933 - Graphic Design III (3.0 cr)
•ART 3937 - Typography II (3.0 cr)
•ART 4908 - Interactive Design I (3.0 cr)

Supporting Courses (7 cr)
Seven credits from a LSBE second major or a LSBE minor, may be applied to this requirement. PSY 3020, STAT 3611 and SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements.

Economics Requirement
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
•Any 3xxx-5xxx level course that is not within the following subjects (or transferred to UMD as coursework in the following subjects: ACCT, BA, BCOM, BLAW, BUS, CIA, FIN, FMIS, HCM, INTB, LSBE, MGTS, MIS, MKTG or SBE.

International Requirement
Take exactly 1 course(s) from the following:
•AMIN 3410 - Fur Trade in Canada and the United States [CDIVERSITY] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•ENGL 3501 - British Literature I [HUMANITIES] (4.0 cr)
•ENGL 3502 - British Literature II [HUMANITIES] (4.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)

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- GEOG 3461 - Geography of Global Resources (3.0 cr)
- GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
- GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
- GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
- HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
- HIST 3243 - Europe in Crisis in the 20th Century (4.0 cr)
- HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
- HIST 3264 - Russian Empire under the Tsars: Russia under the Romanovs from Peter the Great to Lenin [GLOBAL PER] (4.0 cr)
- HIST 3386 - The United States and the World since 1898 (4.0 cr)
- HIST 3615 - Modern Africa (4.0 cr)
- HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
- HIST 3825 - Islamic History from Muhammad to the Ottomans (4.0 cr)
- MGTS 4474 - International Management (3.0 cr)
- POL 3451 - Theories of International Relations (4.0 cr)
- POL 3456 - International Security: War and More (4.0 cr)
- POL 3517 - Western European Political Systems (4.0 cr)
- POL 3570 - Politics of Developing Nations (3.0 cr)
- SOC 3945 - Social Stratification (3.0 cr)
- SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
- SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
- SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
- SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
- WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
- WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
- WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
- WS 3400 - Women and Film [GLOBAL PER] (3.0 cr)
- ACCT 4505 - International Accounting (3.0 cr)
  or ACCT 5505 - International Accounting (3.0 cr)
- ECON 4410 - International Economics (3.0 cr)
  or ECON 5410 - International Economics (3.0 cr)
- MGTS 4861 - International Human Resource Management (3.0 cr)
  or MGTS 5861 - International Human Resource Management (3.0 cr)
- MKTG 4774 - International Marketing (3.0 cr)
  or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Marketing B.B.A.

Marketing

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

Marketing is about facilitating exchanges. For an organization to be successful, it must understand the customer and the customer's needs. An organization seeks to meet these needs in a competitive environment by developing a marketing mix of product and service, price, promotion, and distribution that will satisfy the customer's and organization's objectives. Marketing majors learn to utilize quantitative and qualitative information to formulate solutions to marketing problems. They also learn to communicate skillfully, in written and oral formats. Just like the field of marketing, career opportunities in marketing are diverse. Not only are marketing positions very visible within an organization, you can also expect to shoulder considerable responsibilities fairly early in your career as a marketer. After graduation, marketing majors work in areas such as sales, social media, logistics, marketing planning, advertising, marketing research, branding, product management, retail, and public relations. In addition to classroom-based courses, students may participate in Student to Business Initiative (SBI) projects or internships where classroom learning may be applied through professional experience in an organizational setting.

LSBE Program Honors Requirement: GPA of all upper division (3xxx or higher) courses taken from LSBE.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For admission to the major, the preferred GPA is 2.60 or better cumulative UMD overall GPA; 2.60 or better University of Minnesota cumulative GPA; 2.00 or better Pre-major Coursework GPA. Freshmen and transfer students are typically admitted as pre-business students. Admission to candidacy status, which allows access to upper division LSBE classes, typically occurs at the end of the sophomore year when students have successfully completed all pre-major (pre-candidacy) course requirements and met all of the GPA standards. Students with 2.60 overall GPA and 2.0 internal and pre-major GPAs are admitted upon completion of pre-major courses; students with 2.00-2.59 overall GPA and 2.00 internal and pre-major GPAs are pooled and reviewed for evidence of academic success in LSBE majors. Students who do not qualify for admission to candidacy may not take upper division LSBE courses (excluding some economics courses) without permission of the Director of the LSBE Advising and Academic Service

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

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Communications or World Languages
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)
Mathematics
MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.
2. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
3. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.
4. Graduation Requirements:
   a. 2.0 or better University of Minnesota cumulative GPA,
   b. 2.00 or better Required Major Coursework GPA.

5. Given the overlap between the requirements for the Marketing BBA and the Professional Sales BBA, students wishing to double major in Professional Sales BBA must take a minimum of 9 distinct credits that apply to the Marketing BBA major and are not counted

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towards the Professional Sales BBA major.

Advanced Writing (3 cr)
BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Core (18 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Marketing Group A (9 cr)
MKTG 3711 - Marketing Research (3.0 cr)
MKTG 4781 - Marketing Management and Strategy (3.0 cr)
MKTG 4731 - Consumer Behavior (3.0 cr)
or MKTG 5731 - Consumer Behavior (3.0 cr)

Marketing Group B (12 cr)
Students may take either FST 4225 OR FST 4295, but not both, for credit within this requirement. MKTG 3701, 3711, 4731, and 4781 may not be used to fulfill this requirement. A maximum of 3 credits of MKTG 3797 may be applied to Group B; additional internship credits may be applied to supporting courses.
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•MKTG 37xx
MKTG 47xx
MKTG 57xx

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MKTG 3797 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.
Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)

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•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)
•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management
•MGTS 4474 - International Management (3.0 cr)

•Human Resource Management
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)

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•**Marketing**
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Marketing Minor

Marketing

Labovitz School of Business and Economics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12 to 30

The minor in marketing is about facilitating exchanges.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

The marketing minor is available to LSBE and non-LSBE students.

Program Sub-plans

Students are required to complete one of the following sub-plans.

Marketing Minor for BBA/BAcc Students

Prerequisite (3 cr)

MKTG 3701 - Principles of Marketing (3.0 cr)

Electives (9 cr)

MKTG 3701, 3761, 3767, 3797, 4762, and 4763 may not be used to fulfill this requirement.

Take exactly 9 credit(s) from the following:

- MKTG 37xx

MKTG 47xx

Marketing Minor for Economics BA and non-LSBE Students

An overall and UM GPA of 2.60 and 2.00 in LSBE courses and completion of the pre-minor core are required for automatic admission to this minor. Students with GPAs between 2.00 and 2.59 should consult with the LSBE Advising and Academic Services Office.

Pre-Minor Core (15-18 cr)

Students are encouraged to complete ECON 1022 and 1023 as pre-minor core prerequisites.

MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)

MIS 2201 - Information Technology in Business (3.0 cr)

Accounting

ACCT 2001 - Principles of Financial Accounting (3.0 cr)

or ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)

Economics

ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)

or Take the following course pair:

ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)

ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Statistics

ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)

or PSY 3020 - Statistical Methods (4.0 cr)

or SOC 3155 - Quantitative Research Methods and Analysis (4.0 cr)

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or STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Prerequisite (3 cr)

MKTG 3701 - Principles of Marketing (3.0 cr)

Electives (9 cr)

MKTG 3701, 3761, 3767, 3797, 4762, and 4763 may not be used to fulfill this requirement.
Take exactly 9 credit(s) from the following:

- MKTG 37xx
- MKTG 47xx

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Duluth Campus

Professional Sales B.B.A.

Marketing

Labovitz School of Business and Economics

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 98
- Degree: Bachelor of Business Administration

The BBA in professional sales will combine core marketing knowledge with specialized skills in sales to meet the growing demand for students who are able to enter sales positions and hit the ground running. The major will cover key elements of sales analytics as well as focus on the advanced sales skills needed to succeed in sales careers.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

For admission to the major, the preferred GPA is as follows:
- 2.60 Cumulative (overall) GPA
- 2.60 University of Minnesota GPA
- 2.00 LSBE Coursework (internal) GPA
- 2.00 pre-major GPA

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Pre-major Requirements (37 cr)

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
ACCT 2002 - Principles of Managerial Accounting (3.0 cr)
BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
LSBE 2000 - Interpersonal and Teamwork Skills (1.0 cr)
PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

Communications or World Languages

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)
or AMIN 1103 - Beginning Ojibwe I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or AMIN 1104 - Beginning Ojibwe II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2001 - Beginning American Sign Language I [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or ASL 2002 - Beginning American Sign Language II [LE CAT3, LECD CAT03, COMM & LAN] (3.0 cr)
or CHIN 1101 - Beginning Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or CHIN 1102 - Beginning Chinese II: Mandarin Chinese [LE CAT, COMM & LAN] (4.0 cr)
or CHIN 1201 - Intermediate Chinese I: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)

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or CHIN 1202 - Intermediate Chinese II: Mandarin Chinese [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or FR 1101 - Beginning French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1102 - Beginning French II [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1201 - Intermediate French I [LE CAT3, COMM & LAN] (4.0 cr)
or FR 1202 - Intermediate French II [LE CAT3, LEIP CAT03, COMM & LAN] (4.0 cr)
or GER 1101 - Beginning German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1102 - Beginning German II [LE CAT, COMM & LAN] (4.0 cr)
or GER 1201 - Intermediate German I [LE CAT, COMM & LAN] (4.0 cr)
or GER 1202 - Intermediate German II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1101 - Beginning Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1102 - Beginning Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1201 - Intermediate Spanish I [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 1202 - Intermediate Spanish II [LE CAT, COMM & LAN] (4.0 cr)
or SPAN 2301 - Advanced Spanish [LE CAT, COMM & LAN] (4.0 cr)

Mathematics

MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

2. Given the overlap between the requirements for the Professional Sales BBA and the Marketing BBA, students wishing to double major in Marketing BBA must take a minimum of 9 distinct credits that apply to the Marketing BBA major and are not counted towards the Professional Sales BBA major. Students majoring in Professional Sales BBA cannot minor in Marketing.

Non-LSBE statistics courses cannot be used to fulfill elective requirements.

1. 50% of all required major coursework taken under LSBE subjects (excluding ECON 1022, 1023 and 2030) must be taken from LSBE faculty.
2. No more than 9 credits of required major coursework can be taken from non-LSBE faculty, unless an exception is approved by petition.

Advanced Writing (3 cr)

BCOM 3141 - Business Communications (3.0 cr)
or WRIT 3121 - Advanced Writing: Business and Organizations (3.0 cr)

LSBE Upper Division Core (18 cr)

FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)

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MGTS 3801 - Human Resource Management (3.0 cr)
MGTS 4481 - Strategic Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

Sales Group A Required Courses (15 cr)
MKTG 3711 - Marketing Research (3.0 cr)
MKTG 3731 - Sales Analytics: An Introduction to Sales Analysis Techniques and Applications (3.0 cr)
MKTG 3741 - Fundamentals of Selling (3.0 cr)
MKTG 4731 - Consumer Behavior (3.0 cr)
MKTG 4742 - Advanced Professional Selling (3.0 cr)

Sales Group B Electives (6 cr)
MKTG 3701, 3711, 3731, 3741, 4731, and 4742 may not be used to fulfill this requirement. A maximum of 3 credits of MKTG 3797 may be applied to Group B; additional internship credits may be applied to supporting courses.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
•MKTG 37XX
•MKTG 47XX
•MKTG 57XX

Professional Development (1 cr)
LSBE 3000 - Career Development for the Business Professional (1.0 cr)

Supporting Courses (17 cr)
In addition to econ & international requirements listed below, you may complete up to 3 cr of additional internship crs in MKTG 3797 & upper division (3xxx or above) non-LSBE courses (which excludes ACCT BA BCOM BLAW BUS CIA ECON FIN FMIS HCM INTB LSBE MGTS MIS MKTG or SBE), for a total of 17 cr of supporting courses. NOTE PSY 3020, STAT 3411, 3611 & SOC 3155 are equivalent to ECON 2030 and cannot be used to fulfill these requirements. Up to 12 cr from a LSBE 2nd major or minor may be applied.

Economics
Take exactly 1 course(s) from the following:
•ECON 3xxx
•ECON 4xxx
•ECON 5xxx
Take exactly 1 course(s) from the following:
•AAAS 3202 - African Story-Telling and Folklore (3.0 cr)
•AMIN 3230 - American Indian Tribal Government and Law [SOC SCI, CDIVERSITY] (3.0 cr)
•AMIN 3430 - Global Indigenous Studies [GLOBAL PER] (3.0 cr)
•AMIN 4250 - American Indian Diplomacy: Treaties, Compacts, and Agreements [GLOBAL PER] (3.0 cr)
•ANTH 3628 - Women in Cross-Cultural Perspective (3.0 cr)
•ANTH 3632 - Latin American Cultures (3.0 cr)
•ANTH 3635 - Anthropology of Europe (3.0 cr)
•ANTH 3638 - Peoples and Cultures of the Middle East (3.0 cr)
•ANTH 3888 - Anthropology of Food [SUSTAIN] (3.0 cr)
•ANTH 4640 - Medical Anthropology (4.0 cr)
•ANTH 4652 - Cultural Theory for Wicked Problems (4.0 cr)
•ANTH 4653 - Senior Seminar (3.0 cr)
•ARTH 2380 - A Global History of Contemporary Art (3.0 cr)
•ARTH 3130 - Modern and Contemporary Mexican Art (3.0 cr)
•ARTH 3140 - Women in Art/Visual Culture in Latin America (3.0 cr)
•COMM 3535 - Intercultural Communication [LE CAT6, LEIP CAT06, CDIVERSITY] (4.0 cr)
•COMM 3625 - Rhetoric of Globalization [GLOBAL PER] (3.0 cr)
•COMM 4210 - Theories of Intercultural Communication (3.0 cr)
•ECON 3150 - Development Economics (3.0 cr)
•ECON 3402 - Global Economic Issues (3.0 cr)
•FIN 3649 - International Finance (3.0 cr)
•FR 4412 - Contemporary French Culture and Society [HUMANITIES, GLOBAL PER] (4.0 cr)
•FST 4225 - INTB 4201, Chinese Business and Economics [GLOBAL PER] (3.0 cr)
•FST 4295 - INTB 4211 Innovation in Ireland (GLOBAL PER) [GLOBAL PER] (3.0 cr)
•GEOG 3370 - Geographies of Development (3.0 cr)
•GEOG 3411 - Human Environment Interactions (3.0 cr)
•GEOG 3422 - Natural Hazards (3.0 cr)
•GEOG 3461 - Geography of Global Resources (3.0 cr)
•GEOG 3712 - Geography of Latin America (3.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•GER 4302 - German Women Writers and Filmmakers [HUMANITIES] (4.0 cr)
•GER 4305 - German Cinema [HUMANITIES] (4.0 cr)

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•GER 4404 - Contemporary Germany [HUMANITIES, GLOBAL PER] (4.0 cr)
•HCM 4560 - International Comparisons of Health Care Systems (3.0 cr)
•HIST 3244 - Holocaust & Genocide in Europe in the 20th Century (4.0 cr)
•HIST 3265 - The Soviet Experiment: Russia, the USSR, and Contemporary Russia [LE CAT7, LEIP CAT07, GLOBAL PER] (4.0 cr)
•HIST 3386 - The United States and the World since 1898 (4.0 cr)
•HIST 3615 - Modern Africa (4.0 cr)
•HIST 3726 - Modern Middle East: 18th Century-Present [GLOBAL PER] (4.0 cr)
•HIST 3735 - Muslim Societies [GLOBAL PER] (4.0 cr)
•HLTH 4700 - Global Health (3.0 cr)
•INTB 4201 - Chinese Business and Economy [GLOBAL PER] (3.0 cr)
•INTB 4211 - Innovation in Ireland [GLOBAL PER] (3.0 cr)
•INTS 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•LGBT 3151 - Queer Cinema in International Perspective [GLOBAL PER] (3.0 cr)
•LGBT 3152 - History of the International Homosexual Rights Movement (1895 - present) [GLOBAL PER] (3.0 cr)
•POL 3400 - Contemporary Issues in World Politics (4.0 cr)
•POL 3403 - American Foreign Policy (3.0 cr)
•POL 3420 - International Organization and Global Governance (3.0 cr)
•POL 3451 - Theories of International Relations (4.0 cr)
•POL 3456 - International Security: War and More (4.0 cr)
•POL 3458 - International Negotiation & Bargaining: Negotiating Across Cultures (3.0 cr)
•POL 3517 - Western European Political Systems (4.0 cr)
•POL 3518 - Transitional Politics of Asia (3.0 cr)
•POL 3530 - Comparative Constitutional Law and Judicial Politics (3.0 cr)
•POL 3570 - Politics of Developing Nations (3.0 cr)
•POL 3575 - Latin American Politics and Development (3.0 cr)
•POL 3580 - Central American Politics (3.0 cr)
•SPAN 3042 - Civilization, Cultures and Communities in Latin America [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 3044 - Civilization, Cultures and Communities of Spain [HUMANITIES, GLOBAL PER] (4.0 cr)
•SPAN 4011 - Latin American Prose [HUMANITIES] (4.0 cr)
•SPAN 4017 - Latin American Cinema and Culture [FINE ARTS] (4.0 cr)
•SPAN 4018 - Latin America From Within [HUMANITIES] (4.0 cr)
•SPAN 4019 - Seminar: Latin America in the 21st Century [HUMANITIES] (4.0 cr)
•SPAN 4027 - Contemporary Literature and Culture of Spain [HUMANITIES] (4.0 cr)
•SPAN 4028 - Literature and Culture of Spain 18th to the 20th Century [HUMANITIES] (4.0 cr)
•SPAN 4030 - Cinema and Culture of Spain [FINE ARTS] (4.0 cr)
•WS 3000 - Transnational Perspectives on Feminism [SOC SCI, GLOBAL PER] (3.0 cr)
•WS 3001 - Gender Relations in the Global South [GLOBAL PER] (3.0 cr)
•WS 3002 - Latin American Women: Culture and Politics (3.0 cr)
•WS 3250 - Women, Peace and War [GLOBAL PER] (3.0 cr)
•WS 3750 - Voices of African Women [GLOBAL PER] (3.0 cr)

•Accounting
•ACCT 4505 - International Accounting (3.0 cr)
or ACCT 5505 - International Accounting (3.0 cr)

•Economics
•ECON 4410 - International Economics (3.0 cr)
or ECON 5410 - International Economics (3.0 cr)

•Management
•MGTS 4474 - International Management (3.0 cr)

•Human Resource Management
•MGTS 4861 - International Human Resource Management (3.0 cr)
or MGTS 5861 - International Human Resource Management (3.0 cr)

•Marketing
•MKTG 4774 - International Marketing (3.0 cr)
or MKTG 5774 - International Marketing (3.0 cr)

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Duluth Campus

Sustainable Business and Organization Minor

Management Studies

Labovitz School of Business and Economics

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 12

The sustainable business and organization minor is an interdisciplinary minor, which will complement any LSBE major. Sustainability is an approach to business in which business goals are aligned with social and environmental goals. Opportunities for 21st century managers require, in addition to traditional business skills, understanding of increasingly complex social, environmental, and governance issues. Sustainability careers span a broad set of options in large companies, startups, nonprofits, and government entities.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 45 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.60 already admitted to the degree-granting college
- 2.60 transferring from another University of Minnesota college
- 2.60 transferring from outside the University

Bachelor of Business Administration (BBA) or Bachelor of Accounting (BAc) candidate.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Minor Requirements

Minor Requirements (12 cr)

Group A

MGTS 4463 - Foundations of Sustainable Management (3.0 cr)

Group B

Take 1 or more course(s) from the following:

- ACCT 4510 - Fund and Not-For-Profit Accounting (3.0 cr)
- MKTG 3710 - Green Marketing (3.0 cr)

Group C

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- ECON 3721 - Natural Resource and Energy Economics (3.0 cr)
- ECON 3777 - Environmental Economics (3.0 cr)
- MGTS 4478 - Supply Chain Management (3.0 cr)
- MGTS 4941 - Social Entrepreneurship (3.0 cr)
- MKTG 4710 - Marketing for Non-Profits (3.0 cr)
- One other course from Group B

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Duluth Campus

Aerospace Studies Minor

Aerospace Studies

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 34 to 38

The Air Force Reserve Officer Training Corps (AFROTC) is a college-level educational program that gives students the opportunity to become Air Force officers while completing their degrees. Any student may enroll in aerospace studies courses. AFROTC offers post-collegiate opportunities in more than 100 career specialties. Air Force officers are challenged with organizational responsibilities and experiences not often available to new college graduates. This program is for students who want to challenge themselves as Air Force leaders and managers while serving their country in a professional, high-tech environment.

Active-duty Air Force officers provide a curriculum that gives students insight into the mission, organization, and operation of the U.S. Air Force. Students study Air Force history, leadership, management, professionalism, and U.S. foreign policy and its relationship to defense policy. Scholarships are available on a competitive basis. High school seniors and college students can compete for four-, three-, and two-year scholarships that cover tuition, fees, and book expenses. Participants may qualify to receive a tax-free allowance for each month in school.

The aerospace studies minor provides preparation in areas studied by most officers early in their service careers. The minor increases future officers' performance potential in two areas in which all officers must eventually develop competence: communication skills and international affairs.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division (11 - 14 cr)

ROTC Lead Lab

Air 1000, must be taken while enrolled in ROTC. May be taken one to four times. One credit each completion.

Take 1 - 4 credit(s) from the following:

- AIR 1000 - AFROTC GMC Lead Lab (1.0 cr)

ROTC Core

AIR 1101 - Heritage and Values (1.0 cr)
AIR 1102 - Heritage and Values (1.0 cr)
AIR 2101 - Team and Leadership Fundamentals (1.0 cr)
AIR 2102 - Team and Leadership Fundamentals (1.0 cr)

Communication

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)

Mathematics

Take 3 or more credit(s) from the following:

- MATH 1xxx
- MATH 2xxx

POC Lead Lab (8 cr)

Take 4 or more course(s) totaling 8 or more credit(s) from the following:

- AIR 3001 - AFROTC POC Lead Lab (2.0 cr)

ROTC Upper Division Core (12 cr)

AIR 3101 - Leading People and Effective Communication (3.0 cr)
AIR 3102 - Leading People and Effective Communication (3.0 cr)
AIR 4101 - National Security Studies (3.0 cr)
AIR 4102 - Leadership Responsibilities (3.0 cr)

Electives (3 - 4 cr)

The history and political science courses must be approved by department head.

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Take 1 or more course(s) totaling 3 - 4 credit(s) from the following:
•AIR 1591 - Leadership Practicum (1.0 - 4.0 cr)
•AIR 3591 - Leadership Practicum (1.0 - 4.0 cr)
•GEOG 4393 - Political Geography (3.0 cr)
•POL 3xxx
•HIST 2xxx
or HIST 3xxx

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Duluth Campus

Astronomy Minor

D Earth & Environmental Sci, UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 36

The astronomy minor enhances students' understanding of the formation, structure, and evolution of the universe while providing a sound foundation for professional programs in the sciences. The minor program covers a wide range of topics in general astronomy, stellar dynamics, astrophysics, cosmology, and techniques of astronomical observation and analysis.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Astronomy (36 cr)

General Astronomy

AST 2050 - General Astronomy [NAT SCI] (3.0 cr)

Mathematics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Physics I Lecture

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)

or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I Lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II Lecture

PHYS 2015 - General Physics II (4.0 cr)

or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II Lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Relativity and Quantum Physics

PHYS 2021 - Relativity and Quantum Physics (4.0 cr)

Astrophysics I and II

PHYS 3561 - Astrophysics I Stellar Astrophysics (3.0 cr)

PHYS 3562 - Astrophysics II: Galaxies and the Universe (3.0 cr)

Observational Astronomy

AST 4110 - Observational Astronomy (3.0 cr)

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Duluth Campus

Biochemical Engineering Minor

Chemical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 46 to 48

Significant advances in the biological sciences and engineering have had a dramatic effect on the environmental, chemical, and health care industries. Chemical engineering programs have become more diversified to include curriculum in biochemical engineering. The biochemical engineering minor provides students with additional training in this growing field beyond their traditional coursework. Students will gain the basic knowledge of the biological sciences and design as applied to bioreactor engineering and downstream processing.

The influence of the biological sciences in all academic disciplines within the sciences and engineering continues to expand. Any student may pursue a minor in biochemical engineering.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Biochemical Engineering

Biology I (5 cr)

BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)

Chemistry I with lab (5 cr)

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)

CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Chemistry II with lab (5 cr)

CHEM 1155 - General Chemistry II (4.0 cr)

CHEM 1156 - General Chemistry Lab II (1.0 cr)

Organic Chemistry I with lab (4 cr)

CHEM 2541 - Organic Chemistry I (3.0 cr)

CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)

Organic Chemistry II with lab (4 cr)

CHEM 2542 - Organic Chemistry II (3.0 cr)

CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)

Biochemistry (4 - 5 cr)

CHEM 3322 - Biochemistry (3.0 cr)

CHEM 3324 - Biochemistry Laboratory (1.0 cr)

or CHEM 4351 - Biochemistry I (3.0 cr)

CHEM 4363 - Biochemistry Laboratory (2.0 cr)

Mathematics (10 cr)

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Engineering (3 - 4 cr)

CHE 2111 - Material and Energy Balances (3.0 cr)

or CHE 2211 - Materials and Energy Balances (4.0 cr)

Biochemical Engineering I (3 cr)

CHE 4601 - Biochemical Engineering I (3.0 cr)

or CHE 5601 - Biochemical Engineering I (3.0 cr)

Electives (3 cr)

CHE 4603 - Biorenewable Resources [SUSTAIN] (3.0 cr)

or CHE 4701 - Biochemical Engineering II (3.0 cr)

or CHE 5701 - Biochemical Engineering II (3.0 cr)

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Duluth Campus

Biochemistry B.A.

Chemistry and Biochemistry

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 68 to 70
- Degree: Bachelor of Arts

Biochemistry is the study of chemical reactions and processes at the molecular level that sustain life. This field is both a life science and a chemical science, exploring the chemistry of living organisms and the molecular basis for the processes that occur in living cells. The Department of Chemistry and Biochemistry provides classroom and laboratory learning opportunities and research experiences across the discipline to meet the needs of students in pre-professional programs, as well as students who wish to pursue careers or graduate studies in biochemistry and related disciplines.

Students who complete the BA in biochemistry do so because it is a field that complements areas such as law, library science, journalism, public relations, sale, or education. The major also provides a strong foundation for students planning on attending professional schools, such as medical, dental or pharmacy school, while providing curricular flexibility to complete professional school prerequisites requirements. BA students are encouraged to participate in undergraduate research.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required with this major. A minor in chemistry cannot be declared with the Biochemistry BA.

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits

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may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx Adv Writing (3 cr)

Biology (16 cr)
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
BIOL 2201 - Genetics (3.0 cr)
BIOL 3100 - Cell Biology (3.0 cr)

Chemistry (30 cr)
CHEM 1173/74 and 1175/76 are the preferred courses. High school algebra and high school chemistry is required for CHEM 1173, 1174.
Chemistry I with lab
CHEM 1173 - General Chemistry I for Majors [NAT SCI] (4.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1174 - General Chemistry I Lab for Majors [NAT SCI] (1.0 cr)
or CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Chemistry II with lab
CHEM 1175 - General Chemistry II for Majors (4.0 cr)
or CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1176 - General Chemistry II Lab for Majors (1.0 cr)
or CHEM 1156 - General Chemistry Lab II (1.0 cr)
Organic Chemistry
Organic Chemistry I with lab
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
Organic Chemistry II with lab
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)
Biochemistry
CHEM 4351 - Biochemistry I (3.0 cr)
CHEM 4363 - Biochemistry Laboratory (2.0 cr)
CHEM 4352 - Biochemistry II (3.0 cr)
Analytical Chemistry
CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
or CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)

Mathematics (8 - 10 cr)
Calculus I
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II or Statistics
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
or STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Physics (10 cr)
Physics I Course
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
or PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
Physics I Lab
Students who take PHYS 2013 or 2017 MUST take PHYS 2014 to complete the Physics I requirement.
Students who take PHYS 1001 DO NOT have to take PHYS 2014.
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II
PHYS 1002 - Introduction to Physics II (5.0 cr)
or PHYS 2015 - General Physics II (4.0 cr)

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or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II Lab

Students who take PHYS 2015 or 2018 MUST take PHYS 2016 to complete the Physics II requirement.
Students who take PHYS 1002 DO NOT have to take PHYS 2016.
PHYS 2016 - General Physics Lab II (1.0 cr)

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Duluth Campus

Biochemistry B.S.

Chemistry and Biochemistry

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 86 to 91
- Degree: Bachelor of Science

Biochemistry is the study of life at the molecular level. This field is both a life science and a chemical science, exploring the chemistry of living organisms and the molecular basis for the processes that occur in living cells. The Department of Chemistry and Biochemistry provides classroom and laboratory learning opportunities and research experiences across the discipline to meet the needs of students in engineering, liberal arts, and pre-professional programs, as well as those of students who wish to pursue careers or graduate studies in chemistry or related disciplines.

Honors requirements: The Department of Chemistry and Biochemistry honors program helps outstanding biochemistry and molecular biology majors become competent, independent research workers, encourages student interest in the discipline, and aids in the transition from student to working scientist. Qualified majors may apply after the first semester of their sophomore year. Participants choose a research adviser and complete two semesters on a jointly developed project. Written reports and an oral presentation of the research are also required.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
   a. A minor in chemistry or Biochemistry BA cannot be declared with the Biochemistry BS.
   b. The Chemistry BA may be declared as an additional degree with the Biochemistry BS.
   However, this combination does not satisfy the requirement for a minor or a second major in a different subject.
   c. The Biochemistry BS and Chemistry BS may be declared. This combination satisfies the requirement of a minor or second major in a different subject.

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2. Students earning a BS degree who wish to have their degree certified by the American Chemical Society must complete at least 130 hours of additional laboratory work through participation in undergraduate research with a comprehensive written report and/or through additional chemistry laboratory courses.

Advanced Writing (3 cr)
WRIT 31xx Advanced Writing

Year One (30 cr)
CHEM 1173/74 and 1175/76 are the preferred courses. High school algebra and high school chemistry is required for CHEM 1173, 1174. This schedule presupposes placement into MATH 1296.
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
Chemistry I
CHEM 1173 - General Chemistry I for Majors [NAT SCI] (4.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1174 - General Chemistry I Lab for Majors [NAT SCI] (1.0 cr)
or CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Chemistry II
CHEM 1175 - General Chemistry II for Majors (4.0 cr)
or CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1176 - General Chemistry II Lab for Majors (1.0 cr)
or CHEM 1156 - General Chemistry Lab II (1.0 cr)
Mathematics
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Year Two (25-26 cr)
BIOL 2201 - Genetics (3.0 cr)
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)
or CHEM 2545 - Organic Chemistry II Laboratory for B.S. Chemistry Majors (2.0 cr)
Analytical Chemistry
CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
Physics
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Year Three (21 - 25 cr)
BIOL 3100 - Cell Biology (3.0 cr)
BIOL 4231 - Molecular Biology (3.0 cr)
BIOL 4232 - Molecular Biology Laboratory (2.0 cr)
CHEM 4184 - Undergraduate Seminar I (1.0 cr)
CHEM 4351 - Biochemistry I (3.0 cr)
CHEM 4352 - Biochemistry II (3.0 cr)
CHEM 4363 - Biochemistry Laboratory (2.0 cr)
Physical Chemistry
It is recommended students take CHEM 4634 and 4633.
CHEM 4634 - Physical Chemistry (3.0 cr)
CHEM 4633 - Physical Chemistry Laboratory (1.0 cr)
or CHEM 4641 - Physical Chemistry I (3.0 cr)
CHEM 4643 - Physical Chemistry Laboratory I (1.0 cr)
CHEM 4642 - Physical Chemistry II (3.0 cr)
CHEM 4644 - Physical Chemistry Laboratory II (1.0 cr)

Year Four (4 cr)
CHEM 3432 - Descriptive Inorganic Chemistry (3.0 cr)
CHEM 4185 - Undergraduate Seminar II (1.0 cr)

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Elective (3 cr)

Take 3 or more credit(s) from the following:

•CHEM 4xxx

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Duluth Campus

Biology B.A.

Biology

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 61 to 72
- Degree: Bachelor of Arts

Biology has long been recognized as basic to environment, agriculture, and medicine. Because the topics studied by biologists range from sub-cellular particles to global environmental concerns, and because of the variety of living organisms and the various ways of studying them, many specialties have developed. The BA program provides majors with the necessary background to pursue careers in the diverse areas of life science, including health care professions, and the many careers that provide the interface between science and society.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
   a. The Human Biology sub-plan requires a second field of study from another area of study outside the Department of Biology with the exception of the natural history minor.
   b. The life science sub-plan requires a second field of study from from a non-SCSE program.

Learning In Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.

UST 1000 - Learning in Community (1.0 - 2.0 cr)

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or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
BIOL 3011 can count toward Biology SBE electives if there has been a previous completion of either WRIT 3150 or BIOL 3011.
WRIT 3150 - Advanced Writing: Science (3.0 cr)
or BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)

Core (18 cr)
General Biology I and II
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
Genetics
BIOL 2201 - Genetics (3.0 cr)
Evolution
BIOL 3401 - Evolution (3.0 cr)
Communication in Biology
BIOL 3987 - Communication in Biology (2.0 cr)

Chemistry (10 cr)
General Chemistry I and II with labs
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)

Mathematics and Statistics (7 - 9 cr)
Mathematics
MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)
or MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1160 - Finite Mathematics and Introduction to Calculus [LE CAT, LOGIC & QR] (5.0 cr)
Statistics
Take 3 or more credit(s) from the following:
•STAT 1411 - Introduction to Statistics [LE CAT, LOGIC & QR] (3.0 cr)
•STAT 2xxx
•STAT 3xxx
•STAT 4xxx
•STAT 5xxx
•ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
•PSY 3020 - Statistical Methods (4.0 cr)

Program Sub-plans
Students are required to complete one of the following sub-plans.

Human Biology
Required credits to graduate with this degree: 120
Required credits within the major: 70 - 72

The biology bachelor of arts in human biology is designed to provide the breadth and depth of knowledge required for students entering human health care professions including nursing, dentistry, pharmacy, physician assistant, and the diverse array of health care technician programs. The core courses in biology, chemistry, physics, and mathematics provide a strong foundation for more specialized upper division coursework. Students will complete their degree with upper division electives from the life, physical, and social sciences and humanities to focus their degree toward their professional goals. Please visit the Biology Department webpage http://www.d.umn.edu/biology/ for example plans.

Human Biology Core (13 cr)
Human Anatomy and Physiology
BIOL 3771 - Human Anatomy (4.0 cr)
BIOL 3772 - Human Physiology (4.0 cr)
Cell Biology
BIOL 3100 - Cell Biology (3.0 cr)

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Cell or Genetics Lab
BIOL 2102 - Cell Biology Laboratory (2.0 cr)
or BIOL 2202 - Genetics Laboratory (2.0 cr)

Biology Electives (6 cr)
Between the biology electives and additional electives, at least one biology lab course must be included.

Cell Biology (CELL)
BIOL 3094, 4232, 4361, and 4512 carry a lab component
Take 2 or more course(s) totaling 6 or more credit(s) from the following:
- BIOL 3094 - Experimental Biology (2.0 cr)
- BIOL 3101 - Molecular Biology of Cancer (3.0 cr)
- BIOL 3102 - Cell Biology of Human Disease (3.0 cr)
- BIOL 3103 - Biology of Aging (3.0 cr)
- BIOL 3512 - Biology of HIV and AIDS (3.0 cr)
- BIOL 4199 - Frontiers in Cell Biology (3.0 cr)
- BIOL 4231 - Molecular Biology (3.0 cr)
- BIOL 4232 - Molecular Biology Laboratory (2.0 cr)
- BIOL 4361 - Developmental Biology (3.0 cr)
- BIOL 4504 - Biology of SARS-CoV-2 and COVID 19 (3.0 cr)
- BIOL 4511 - Medical Microbiology (3.0 cr)
- BIOL 4512 - Medical Microbiology Laboratory (2.0 cr)
- BMS 5545 - Immunology (3.0 cr)

Additional Electives (12 cr)
Between the Biology BA Electives and Additional Electives, at least one Biology Lab course must be included. Courses cannot be used to fulfill more than 1 requirement within the major.
Take 12 or more credit(s) from the following:

Anatomy, Morphology, Physiology Electives
BIOL 3703 and 4604/5604 carry a lab component
Take 0 or more course(s) from the following:
- BIOL 3703 - Animal Physiology (3.0 cr)
- BIOL 3763 - The Biology of Gender (3.0 cr)
- BIOL 4604 - Plant Physiology (4.0 cr)
- BIOL 5604 - Plant Physiology (4.0 cr)
- BIOL 5772 - Neural Systems and Behavior (3.0 cr)

- **Cell Biology Electives**

BIOL 3094, 4232, 4361, and 4512 carry a lab component
Take 0 or more course(s) from the following:
- BIOL 3094 - Experimental Biology (2.0 cr)
- BIOL 3101 - Molecular Biology of Cancer (3.0 cr)
- BIOL 3102 - Cell Biology of Human Disease (3.0 cr)
- BIOL 3103 - Biology of Aging (3.0 cr)
- BIOL 3512 - Biology of HIV and AIDS (3.0 cr)
- BIOL 4199 - Frontiers in Cell Biology (3.0 cr)
- BIOL 4231 - Molecular Biology (3.0 cr)
- BIOL 4232 - Molecular Biology Laboratory (2.0 cr)
- BIOL 4361 - Developmental Biology (3.0 cr)
- BIOL 4504 - Biology of SARS-CoV-2 and COVID 19 (3.0 cr)
- BIOL 4511 - Medical Microbiology (3.0 cr)
- BIOL 4512 - Medical Microbiology Laboratory (2.0 cr)
- BMS 5545 - Immunology (3.0 cr)

- **Diversity and Taxonomy Electives**

All courses in this category carry a lab component
Take 0 or more course(s) from the following:
- BIOL 3502 - General Microbiology (4.0 cr)
- BIOL 3601 - Plant Diversity (3.0 cr)
- BIOL 3603 - Plant Taxonomy (3.0 cr)
- BIOL 3701 - Animal Diversity (4.0 cr)
- BIOL 4731 - Entomology (3.0 cr)
- BIOL 4761 - Ichthyology (3.0 cr)
- BIOL 4763 - Ornithology (3.0 cr)
- BIOL 4764 - Mammalogy (3.0 cr)
- BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)

- **Ecology, Evolution & Behavior Electives**

BIOL 3761, 4804, 4839, 4861, 5240, 5807, 5809, 5833 and 5861 carry a lab component.
Take 0 or more course(s) from the following:
- BIOL 3402 - Evolution in the news (1.0 cr)
- BIOL 3760 - Marine Biology (3.0 cr)

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- BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
- BIOL 3830 - Aquatic Food Webs (3.0 cr)
- BIOL 3835 - Freshwater Ecology (3.0 cr)
- BIOL 4201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
- BIOL 4804 - Methods in Forest Ecology (3.0 cr)
- BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
- BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
- BIOL 4850 - Food and Humans (3.0 cr)
- BIOL 4861 - Lake Ecology (3.0 cr)
- BIOL 4863 - Ecosystems Ecology and Biogeochemistry (3.0 cr)
- BIOL 4891 - Animal Behavior (3.0 cr)
- BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)
- BIOL 5201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
- BIOL 5240 - Ecological Genetics (3.0 cr)
- BIOL 5801 - Microbial Ecology (2.0 cr)
- BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
- BIOL 5807 - Mathematical Ecology (3.0 cr)
- BIOL 5808 - Landscape Ecology: Theory and Application (3.0 cr)
- BIOL 5809 - Ecological Statistics (3.0 cr)
- BIOL 5833 - Stream Ecology (3.0 cr)
- BIOL 5861 - Lake Ecology (3.0 cr)
- BIOL 5865 - Conservation Biology (2.0 cr)
- BIOL 5870 - Wetland Ecology (3.0 cr)
- BIOL 4740 - Geobiology (3.0 cr)
- BIOL 5740 - Geobiology (3.0 cr)

- **Electives**

BIOL 2571 carries a lab component.
Take 0 or more course(s) from the following:

- ANTH 2xxx
- ANTH 3xxx
- ANTH 4xxx
- BIOL 2571 - Microbiology for Human Health (4.0 cr)
- BMS 5501 - Neurobiochemistry (2.0 cr)
- BMS 5555 - Molecular Pathogenesis: Current Concepts (3.0 cr)
- CHEM 2541 - Organic Chemistry I (3.0 cr)
- CHEM 2542 - Organic Chemistry II (3.0 cr)
- CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
- CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)
- CHEM 3322 - Biochemistry (3.0 cr)
- CHEM 3324 - Biochemistry Laboratory (1.0 cr)
- PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
- PHYS 1002 - Introduction to Physics II (5.0 cr)
- PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
- PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
- PHYS 2015 - General Physics II (4.0 cr)
- PHYS 2016 - General Physics Lab II (1.0 cr)
- PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
- PHYS 2018 - Honors General Physics II (4.0 cr)
- PSY 3xxx
- PSY 4xxx
- PSY 5xxx
- SOC 2xxx
- SOC 3xxx
- SOC 4xxx

- **Supplemental Biology Electives**

These courses can be used as additional electives only if they have not been used in the core. 2 cr of SSP 3010 TA Practicum (in Biology) may be substituted for BIOL 3993 as an upper division elective with departmental approval. A maximum of 2 cr BIOL 3993, a maximum of 4 cr BIOL 3994 and a maximum of 1 cr BIOL 3996 may be applied to the degree. BIOL 2102, 2202, and 2802 carry a lab component. BIOL 3011 can count if there has been a previous completion of either WRIT 3150 or BIOL 3011.
Take 0 or more course(s) from the following:

- BIOL 2102 - Cell Biology Laboratory (2.0 cr)
- BIOL 2202 - Genetics Laboratory (2.0 cr)
- BIOL 2802 - Ecology Laboratory (2.0 cr)
- BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)
- BIOL 3993 - Laboratory Teaching Experience (1.0 - 2.0 cr)
- BIOL 3994 - Undergraduate Research (1.0 - 3.0 cr)

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•BIOL 3996 - Internship in Biology (1.0 - 2.0 cr)
•BIOL 5001 - Teaching and Learning in the Life Sciences (1.0 cr)

•Social Science, Business & Humanities Electives

Take 0 or more course(s) from the following:
•ANTH 1602 - Biological Anthropology and Archaeology [LE CAT, SOC SCI] (4.0 cr)
•ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
•HIST 2350 - Hunting and Gathering and the History of American Health [HUMANITIES, SUSTAIN] (4.0 cr)
•MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
•PHIL 1003 - Ethics and Society [LE CAT8, LEIP CAT08, HUMANITIES, CDIVERSITY] (3.0 cr)
•PSY 1003 - General Psychology [LE CAT, SOC SCI] (4.0 cr)
•PSY 2021 - Developmental Psychology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)
•PSY 3121 - Abnormal Psychology (4.0 cr)
•SOC 1101 - Introduction to Sociology [LE CAT, LECD C, SOC SCI, CDIVERSITY] (4.0 cr)

Life Sciences

Required credits to graduate with this degree: 120
Required credits within the major: 61 - 63

The life sciences sub-plan is for students whose educational and career objectives can best be met by integrating a strong biology background with courses from multiple departments in order to complete a second major or minor outside the Swenson College of Science and Engineering. Please visit the Biology Department webpage http://www.d.umn.edu/biology/ for example plans.

Life Science Core (5 cr)

Cell Biology

BIOL 3100 - Cell Biology (3.0 cr)

Cell, Genetics or Ecology Lab

BIOL 2102 - Cell Biology Laboratory (2.0 cr)
or BIOL 2202 - Genetics Laboratory (2.0 cr)
or BIOL 2802 - Ecology Laboratory (2.0 cr)

Electives (17 cr)

Courses cannot be used to fulfill more than 1 requirement in the major. Must include 3 biology lab courses.

Take 17 or more credit(s) from the following:

Anatomy, Morphology, Physiology

All courses except BIOL 3763 and 5772 carry a lab component.
Take 0 or more course(s) from the following:
•BIOL 3703 - Animal Physiology (3.0 cr)
•BIOL 3763 - The Biology of Gender (3.0 cr)
•BIOL 3771 - Human Anatomy (4.0 cr)
•BIOL 3772 - Human Physiology (4.0 cr)
•BIOL 4604 - Plant Physiology (4.0 cr)
•BIOL 5604 - Plant Physiology (4.0 cr)
•BIOL 5772 - Neural Systems and Behavior (3.0 cr)

Cell Biology

BIOL 3094, 4232, 4361, and 4512 carry a lab component.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•BIOL 3094 - Experimental Biology (2.0 cr)
•BIOL 3101 - Molecular Biology of Cancer (3.0 cr)
•BIOL 3102 - Cell Biology of Human Disease (3.0 cr)
•BIOL 3103 - Biology of Aging (3.0 cr)
•BIOL 3512 - Biology of HIV and AIDS (3.0 cr)
•BIOL 4199 - Frontiers in Cell Biology (3.0 cr)
•BIOL 4231 - Molecular Biology (3.0 cr)
•BIOL 4232 - Molecular Biology Laboratory (2.0 cr)
•BIOL 4361 - Developmental Biology (3.0 cr)
•BIOL 4504 - Biology of SARS-CoV-2 and COVID 19 (3.0 cr)
•BIOL 4511 - Medical Microbiology (3.0 cr)
•BIOL 4512 - Medical Microbiology Laboratory (2.0 cr)
•BMS 5545 - Immunology (3.0 cr)

Diversity and Taxonomy

All courses in this category carry a lab component.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•BIOL 3502 - General Microbiology (4.0 cr)
•BIOL 3601 - Plant Diversity (3.0 cr)
•BIOL 3603 - Plant Taxonomy (3.0 cr)
•BIOL 3701 - Animal Diversity (4.0 cr)

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•BIOL 4731 - Entomology (3.0 cr)
•BIOL 4761 - Ichthyology (3.0 cr)
•BIOL 4763 - Ornithology (3.0 cr)
•BIOL 4764 - Mammalogy (3.0 cr)
•BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)

Ecology, Evolution and Behavior

BIOL 3761, 4804, 4839, 4861, 5240, 5807, 5809, 5833 and 5861 carry a lab component.
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•BIOL 3402 - Evolution in the news (1.0 cr)
•BIOL 3760 - Marine Biology (3.0 cr)
•BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
•BIOL 3830 - Aquatic Food Webs (3.0 cr)
•BIOL 3835 - Freshwater Ecology (3.0 cr)
•BIOL 4201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 4740 - Geobiology (3.0 cr)
•BIOL 4804 - Methods in Forest Ecology (3.0 cr)
•BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
•BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
•BIOL 4850 - Food and Humans (3.0 cr)
•BIOL 4861 - Lake Ecology (3.0 cr)
•BIOL 4863 - Ecosystems Ecology and Biogeochemistry (3.0 cr)
•BIOL 4891 - Animal Behavior (3.0 cr)
•BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)
•BIOL 5201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 5240 - Ecological Genetics (3.0 cr)
•BIOL 5740 - Geobiology (3.0 cr)
•BIOL 5801 - Microbial Ecology (2.0 cr)
•BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
•BIOL 5807 - Mathematical Ecology (3.0 cr)
•BIOL 5808 - Landscape Ecology: Theory and Application (3.0 cr)
•BIOL 5809 - Ecological Statistics (3.0 cr)
•BIOL 5833 - Stream Ecology (3.0 cr)
•BIOL 5861 - Lake Ecology (3.0 cr)
•BIOL 5865 - Conservation Biology (2.0 cr)
•BIOL 5870 - Wetland Ecology (3.0 cr)

Supplemental Biology Electives

These courses can be used as additional electives only if they have not been used in the core. 2 cr of SSP 3010 TA Practicum (in Biology) may be substituted for BIOL 3993 as an upper division elective with departmental approval. A maximum of 2 cr BIOL 3993, a maximum of 4 cr BIOL 3994 and a maximum of 1 cr BIOL 3996 may be applied to the degree. BIOL 2102, 2202, and 2802 carry a lab component. BIOL 3011 can count if there has been a previous completion of either WRIT 3150 or BIO 3011.
Take 0 or more course(s) from the following:
•BIOL 2102 - Cell Biology Laboratory (2.0 cr)
•BIOL 2202 - Genetics Laboratory (2.0 cr)
•BIOL 2801 - General Ecology (3.0 cr)
•BIOL 2802 - Ecology Laboratory (2.0 cr)
•BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)
•BIOL 3993 - Laboratory Teaching Experience (1.0 - 2.0 cr)
•BIOL 3994 - Undergraduate Research (1.0 - 3.0 cr)
•BIOL 3996 - Internship in Biology (1.0 - 2.0 cr)
•BIOL 5001 - Teaching and Learning in the Life Sciences (1.0 cr)

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Duluth Campus

Biology B.S.

Biology

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 81 to 89
- Degree: Bachelor of Science

The BS in biology offers preparation for graduate school and a sound basis for professional training in biological and health sciences. Biology is a broad field, and students can tailor their programs to fit personal interests or career aspirations.

The two subplans: genetics, cell and development, and ecology, evolution and behavior, are the two major emphases in the study and practice of biology and choice of upper division electives gives students the flexibility to further focus their degree programs.

The Department of Biology encourages students to develop as active scholars and to participate in undergraduate research. The degree involves faculty from multiple departments in the Swenson College of Science and Engineering and the UM Medical School.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or second major from another area of study outside the Department of Biology with the exception of the natural history minor.

This schedule presupposes placement into BIOL 1013, CHEM 1153, 1154 which require the prerequisites of high school chemistry and a math ACT of 24 or college algebra; and calculus I which requires the prerequisite of a math ACT of 27 or precalculus.

Advanced Writing (3 cr)

BIOL 3011 can count toward Biology SBE electives if there has been a previous completion of either WRIT 3150 or BIOL 3011.

WRIT 3150 - Advanced Writing: Science (3.0 cr)

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or BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)

Biology BS Core (15 cr)
General Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
Genetics
BIOL 2201 - Genetics (3.0 cr)
Communication in Biology
BIOL 3987 - Communication in Biology (2.0 cr)

Calculus (5 cr)
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Chemistry (14 cr)
Chemistry I and II with labs
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
Organic Chemistry with lab
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)

Physics (5 cr)
Introduction to Physics I
Students who take PHYS 1001 DO NOT have to take PHYS 2014.
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
or **General Physics I with lab**
Students who take PHYS 2013 or 2017 MUST take PHYS 2014 to complete the Physics I requirement.
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Statistics (3 cr)
Statistics
Take 3 or more credit(s) from the following:
•STAT 2xxx
•STAT 3xxx
•STAT 4xxx
•STAT 5xxx

Program Sub-plans

Students are required to complete one of the following sub-plans.

Ecology, Evolution and Behavior

Required credits to graduate with this degree: 120
Required credits within the major: 81 - 83

Students in the ecology, evolution, and behavior (EEB) sub-plan study the origin and maintenance of biodiversity and the interrelationship or organisms with each other and their physical environment. It prepares students for a wide range of careers including teaching, working on environmental problems for government agencies an industry, and for research positions at university and other institutions. It also provides excellent preparation for graduate school or professional programs including medicine and veterinary medicine. Student in the EEB sub-plan will choose from electives in the ecology, evolution, and behavior and diversity and taxonomy categories. These courses include inquiry based activities that explore the ecology, evolution and behavior of the diversity of life from microbes to moose.

Ecology, Evolution, & Behavior Core (11 cr)
Ecology and Evolution
BIOL 2801 - General Ecology (3.0 cr)
BIOL 3401 - Evolution (3.0 cr)
Cell Biology
BIOL 3100 - Cell Biology (3.0 cr)

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Laboratory
BIOL 2102 - Cell Biology Laboratory (2.0 cr)
or BIOL 2202 - Genetics Laboratory (2.0 cr)
or BIOL 2802 - Ecology Laboratory (2.0 cr)

Chemistry (4 cr)
Environmental Chemistry
CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
or **Quantitative Analysis with lab**
CHEM 2222 - Quantitative Analysis (3.0 cr)
with CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
or **Organic Chemistry II with lab**
CHEM 2542 - Organic Chemistry II (3.0 cr)
with CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)

Quantitative Reasoning (3 -5 cr)
BIOL 4201, 5201, and 5809 can only be used if not taken for upper division biology credit.
Take 1 or more course(s) from the following:
•BIOL 4201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 5201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 5809 - Ecological Statistics (3.0 cr)
•CS 1121 - Introduction to Programming in Visual BASIC.NET [LE CAT, LOGIC & QR] (3.0 cr)
•CS 1411 - Introduction to Programming in Matlab (4.0 cr)
•MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
•MATH 5233 - Mathematical Foundations of Bioinformatics (3.0 cr)
•STAT 3612 - Introduction to Probability and Statistics II (3.0 cr)
•STAT 4060 - Introduction to Biostatistics (3.0 cr)
•STAT 5411 - Analysis of Variance (3.0 cr)
or **Introduction to Physics II**
Students who take PHYS 1002 DO NOT have to take PHYS 2016.
PHYS 1002 - Introduction to Physics II (5.0 cr)
or **General Physics II with lab**
Students who take PHYS 2015 or 2018 MUST take PHYS 2016 to complete the Physics I requirement.
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Upper Division Biology BS Electives (18 cr)
Must include at least 2 courses 4xxx or above and 3 laboratory courses.

Take 18 or more credit(s) from the following categories; a combination of credits are needed from both required electives - parts A and B. Supplemental biology electives may be used to complete the outstanding credits toward the total credits needed. Courses cannot be used to fulfill more than 1 requirement within the major.

Electives - Part A
Courses must be from at least 2 different categories.

Take 4 or more course(s) from the following:
Diversity and Taxonomy (DT)
All courses in this list carry a lab component.

Take 1 or more course(s) from the following:
•BIOL 3502 - General Microbiology (4.0 cr)
•BIOL 3601 - Plant Diversity (3.0 cr)
•BIOL 3603 - Plant Taxonomy (3.0 cr)
•BIOL 3701 - Animal Diversity (4.0 cr)
•BIOL 4731 - Entomology (3.0 cr)
•BIOL 4761 - Ichthyology (3.0 cr)
•BIOL 4763 - Ornithology (3.0 cr)
•BIOL 4764 - Mammalogy (3.0 cr)
•BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)
•**Ecology, Evolution and Behavior (EEB)**
BIOL 3761, 4804, 4839, 4861, 5240, 5807, 5809, 5833, and 5861 carry a lab component.

Take 1 or more course(s) from the following:
•BIOL 3402 - Evolution in the news (1.0 cr)
•BIOL 3760 - Marine Biology (3.0 cr)
•BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
•BIOL 3830 - Aquatic Food Webs (3.0 cr)

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•BIOL 3835 - Freshwater Ecology (3.0 cr)
•BIOL 4201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 4740 - Geobiology (3.0 cr)
•BIOL 4804 - Methods in Forest Ecology (3.0 cr)
•BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
•BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
•BIOL 4850 - Food and Humans (3.0 cr)
•BIOL 4861 - Lake Ecology (3.0 cr)
•BIOL 4863 - Ecosystems Ecology and Biogeochemistry (3.0 cr)
•BIOL 4891 - Animal Behavior (3.0 cr)
•BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)
•BIOL 5201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 5240 - Ecological Genetics (3.0 cr)
•BIOL 5740 - Geobiology (3.0 cr)
•BIOL 5801 - Microbial Ecology (2.0 cr)
•BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
•BIOL 5807 - Mathematical Ecology (3.0 cr)
•BIOL 5808 - Landscape Ecology: Theory and Application (3.0 cr)
•BIOL 5809 - Ecological Statistics (3.0 cr)
•BIOL 5833 - Stream Ecology (3.0 cr)
•BIOL 5861 - Lake Ecology (3.0 cr)
•BIOL 5865 - Conservation Biology (2.0 cr)
•BIOL 5870 - Wetland Ecology (3.0 cr)

Electives - Part B

Take 1 or more course(s) from the following:

Anatomy, Morphology, Physiology (AMP)

All courses except BIOL 3763 and 5772 carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3703 - Animal Physiology (3.0 cr)
•BIOL 3763 - The Biology of Gender (3.0 cr)
•BIOL 3771 - Human Anatomy (4.0 cr)
•BIOL 3772 - Human Physiology (4.0 cr)
•BIOL 4604 - Plant Physiology (4.0 cr)
•BIOL 5604 - Plant Physiology (4.0 cr)
•BIOL 5772 - Neural Systems and Behavior (3.0 cr)

•**Cell Biology (CELL)**

BIOL 3094, 4232, 4361, and 4512 carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3094 - Experimental Biology (2.0 cr)
•BIOL 3101 - Molecular Biology of Cancer (3.0 cr)
•BIOL 3102 - Cell Biology of Human Disease (3.0 cr)
•BIOL 3103 - Biology of Aging (3.0 cr)
•BIOL 3512 - Biology of HIV and AIDS (3.0 cr)
•BIOL 4199 - Frontiers in Cell Biology (3.0 cr)
•BIOL 4231 - Molecular Biology (3.0 cr)
•BIOL 4232 - Molecular Biology Laboratory (2.0 cr)
•BIOL 4361 - Developmental Biology (3.0 cr)
•BIOL 4504 - Biology of SARS-CoV-2 and COVID 19 (3.0 cr)
•BIOL 4511 - Medical Microbiology (3.0 cr)
•BIOL 4512 - Medical Microbiology Laboratory (2.0 cr)
•BMS 5545 - Immunology (3.0 cr)

•**Supplemental Biology Electives (SBE) (Optional)**

These courses can be used as additional electives only if they have not been used in the core. 2 cr of SSP 3010 TA Practicum (in Biology) may be substituted for BIOL 3993 as an upper division elective with departmental approval. A maximum of 2 cr of BIOL 3993, a maximum of 4 cr of BIOL 3994 and a maximum of 1 cr BIOL 3996 may be applied to the degree. BIOL 2102, 2202, and 2802 carry a lab component. BIOL 3011 can count if there has been a previous completion of either WRIT 3150 or BIOL 3011.

Take 0 or more course(s) from the following:
•BIOL 2102 - Cell Biology Laboratory (2.0 cr)
•BIOL 2202 - Genetics Laboratory (2.0 cr)
•BIOL 2802 - Ecology Laboratory (2.0 cr)
•BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)
•BIOL 3993 - Laboratory Teaching Experience (1.0 - 2.0 cr)
•BIOL 3994 - Undergraduate Research (1.0 - 3.0 cr)
•BIOL 3996 - Internship in Biology (1.0 - 2.0 cr)

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•BIOL 5001 - Teaching and Learning in the Life Sciences (1.0 cr)

Genetics, Cell and Development

Required credits to graduate with this degree: 120
Required credits within the major: 85 - 89

The genetics, cell and development (GCD) subplan prepares students for graduate school and careers in cell biology, genetics, developmental biology, physiology, immunology, biotechnology, molecular biology and microbiology. It is also designed to prepare students for application to professional schools including medicine, dentistry, pharmacy and veterinary medicine. Students in the GCD sub-plan will choose at least 3 CELL electives exploring the structure and function of cells. Students will also incorporate courses from other elective categories to tailor their degrees to meet their goals.

Core (13 cr)

Cell and Molecular Biology with lab

BIOL 3100 - Cell Biology (3.0 cr)
BIOL 3401 - Evolution (3.0 cr)
BIOL 4231 - Molecular Biology (3.0 cr)
BIOL 4232 - Molecular Biology Laboratory (2.0 cr)

Biology Laboratory

BIOL 2102 - Cell Biology Laboratory (2.0 cr)
or BIOL 2202 - Genetics Laboratory (2.0 cr)

Upper Division Biology BS Electives (14 cr)

Must include at least 1 course 4xxx or above and 1 laboratory course.

Take 14 or more credit(s) from the following categories. Additional required electives or optional electives may be used to complete the outstanding credits toward the total credits needed. Courses cannot be used to fulfill more than 1 requirement within the major.

Electives

Courses must be from at least 2 of the 3 categories.
Take 4 or more course(s) from the following:

Cell Biology

BIOL 3094, 4361, and 4512 carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3094 - Experimental Biology (2.0 cr)
•BIOL 3101 - Molecular Biology of Cancer (3.0 cr)
•BIOL 3102 - Cell Biology of Human Disease (3.0 cr)
•BIOL 3103 - Biology of Aging (3.0 cr)
•BIOL 3512 - Biology of HIV and AIDS (3.0 cr)
•BIOL 4199 - Frontiers in Cell Biology (3.0 cr)
•BIOL 4361 - Developmental Biology (3.0 cr)
•BIOL 4504 - Biology of SARS-CoV-2 and COVID 19 (3.0 cr)
•BIOL 4511 - Medical Microbiology (3.0 cr)
•BIOL 4512 - Medical Microbiology Laboratory (2.0 cr)
•BMS 5545 - Immunology (3.0 cr)

•Anatomy, Morphology, Physiology

All courses except BIOL 3763 and 5772 carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3703 - Animal Physiology (3.0 cr)
•BIOL 3763 - The Biology of Gender (3.0 cr)
•BIOL 3771 - Human Anatomy (4.0 cr)
•BIOL 3772 - Human Physiology (4.0 cr)
•BIOL 4604 - Plant Physiology (4.0 cr)
•BIOL 5604 - Plant Physiology (4.0 cr)
•BIOL 5772 - Neural Systems and Behavior (3.0 cr)

•Diversity and Taxonomy

All courses in this category carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3502 - General Microbiology (4.0 cr)
•BIOL 3601 - Plant Diversity (3.0 cr)
•BIOL 3603 - Plant Taxonomy (3.0 cr)
•BIOL 3701 - Animal Diversity (4.0 cr)
•BIOL 4731 - Entomology (3.0 cr)
•BIOL 4761 - Ichthyology (3.0 cr)
•BIOL 4763 - Ornithology (3.0 cr)

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•BIOL 4764 - Mammalogy (3.0 cr)
•BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)

Optional Electives

Courses in the following two categories may be used to complete the outstanding credits towards the 14 total credits needed.
Take 0 or more course(s) from the following:

Ecology, Evolution and Behavior (EEB)

BIOL 3761, 4804, and 4839 carry a lab component.

Take 0 or more course(s) from the following:
•BIOL 3402 - Evolution in the news (1.0 cr)
•BIOL 3760 - Marine Biology (3.0 cr)
•BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
•BIOL 3830 - Aquatic Food Webs (3.0 cr)
•BIOL 3835 - Freshwater Ecology (3.0 cr)
•BIOL 4201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 4740 - Geobiology (3.0 cr)
•BIOL 4804 - Methods in Forest Ecology (3.0 cr)
•BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
•BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
•BIOL 4850 - Food and Humans (3.0 cr)
•BIOL 4861 - Lake Ecology (3.0 cr)
•BIOL 4863 - Ecosystems Ecology and Biogeochemistry (3.0 cr)
•BIOL 4891 - Animal Behavior (3.0 cr)
•BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)
•BIOL 5201 - Leverage bioinformatic tools to manage big data and answer primary biology questions (3.0 cr)
•BIOL 5240 - Ecological Genetics (3.0 cr)
•BIOL 5740 - Geobiology (3.0 cr)
•BIOL 5801 - Microbial Ecology (2.0 cr)
•BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
•BIOL 5807 - Mathematical Ecology (3.0 cr)
•BIOL 5808 - Landscape Ecology: Theory and Application (3.0 cr)
•BIOL 5809 - Ecological Statistics (3.0 cr)
•BIOL 5833 - Stream Ecology (3.0 cr)
•BIOL 5861 - Lake Ecology (3.0 cr)
•BIOL 5865 - Conservation Biology (2.0 cr)
•BIOL 5870 - Wetland Ecology (3.0 cr)

•**Supplemental Biology Electives (SBE)**

These courses can be used as additional electives only if they have not been used in the core. 2 cr of SSP 3010 TA Practicum (in Biology) may be substituted for BIOL 3993 as an upper division elective with departmental approval. A maximum of 2 cr BIOL 3993, a maximum of 4 cr BIOL 3994 and a maximum of 1 cr BIOL 3996 may be applied to the degree. BIOL 2102, 2202, and 2802 carry a lab component. BIOL 3011 can count if there has been a previous completion of either WRIT 3150 or BIOL 3011.
Take 0 or more course(s) from the following:
•BIOL 2102 - Cell Biology Laboratory (2.0 cr)
•BIOL 2202 - Genetics Laboratory (2.0 cr)
•BIOL 2802 - Ecology Laboratory (2.0 cr)
•BIOL 3011 - Writing for the Duluth Journal of Undergraduate Biology (3.0 cr)
•BIOL 3993 - Laboratory Teaching Experience (1.0 - 2.0 cr)
•BIOL 3994 - Undergraduate Research (1.0 - 3.0 cr)
•BIOL 3996 - Internship in Biology (1.0 - 2.0 cr)
•BIOL 5001 - Teaching and Learning in the Life Sciences (1.0 cr)

Courses From Other Programs (13 - 17 cr)

Biochemistry

CHEM 3322 - Biochemistry (3.0 cr)
CHEM 3324 - Biochemistry Laboratory (1.0 cr)
or CHEM 4351 - Biochemistry I (3.0 cr)
CHEM 4352 - Biochemistry II (3.0 cr)
CHEM 4363 - Biochemistry Laboratory (2.0 cr)

Organic Chemistry II with lab

CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)

Introduction to Physics II

Students who take PHYS 1002 DO NOT have to take PHYS 2016.
PHYS 1002 - Introduction to Physics II (5.0 cr)
or **General Physics II with lab**
Students who take PHYS 2015 or 2018 MUST take PHYS 2016 to complete the Physics II requirement.
PHYS 2015 - General Physics II (4.0 cr)

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or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

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Duluth Campus

Biology Minor

Biology

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 32

Biology has long been recognized as basic to such important areas as environment, agriculture, and medicine.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Biology Minor Courses (19 cr)

General Biology I

BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)

General Biology II

BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)

Genetics

BIOL 2201 - Genetics (3.0 cr)

Cell Biology

BIOL 2110 - Cell and Molecular Biology (3.0 cr)

or BIOL 3100 - Cell Biology (3.0 cr)

Ecology

BIOL 2410 - Ecology and Evolution (3.0 cr)

or BIOL 2801 - General Ecology (3.0 cr)

or BIOL 3401 - Evolution (3.0 cr)

Biology Elective Requirement (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- BIOL 3xxx
- BIOL 4xxx
- BIOL 5xxx

Chemistry (10 cr)

Introduction to Organic and Biological Chem I and II

CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)

CHEM 1114 - Introduction to General, Organic, and Biological Chemistry II (5.0 cr)

or **Chemistry I and II with labs**

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)

CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

CHEM 1155 - General Chemistry II (4.0 cr)

CHEM 1156 - General Chemistry Lab II (1.0 cr)

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Duluth Campus

Biomedical Sciences B.S.

Duluth School of Medicine - Adm, Pharmacy, College of - Adm, Swenson College of Science & Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 90
- Degree: Bachelor of Science

Refer to the Swenson College of Science and Engineering Student Affairs Office and the University of Minnesota Medical School Duluth Student Affairs Office, or the University of Minnesota Duluth College of Pharmacy Student Services Office.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 90 credits before admission to the program.

Three years of an undergraduate major in SCSE, including the advanced writing requirement, the UMD Liberal Education Program, all pre-med or pre-pharm courses, and the first year of medical or pharmacy school.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

See the Swenson College of Science and Engineering Student Affairs Office, the University of Minnesota Medical School Duluth Student Affairs Office, or the University of Minnesota Duluth College of Pharmacy Student Services Office.

Advanced writing requirement will be met by meeting requirements for admission to the UMD School or Medicine or UM College of Pharmacy.

Individualized Program

Individualized Plan

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Duluth Campus

Chemical Engineering B.S.Ch.E.

Chemical Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 123 to 126
- Required credits within the major: 105 to 108
- Degree: Bachelor of Science in Chemical Engineering

The Department of Chemical Engineering strives for nationally recognized excellence in engineering education and research by using modern, hands-on, and active learning experiences to prepare undergraduate students for professional success, and to hold paramount the safety, health, and welfare of the public and protect the environment in the performance of their professional duties.

The Department of Chemical Engineering produces engineers with a strong foundation of technical, communication, teamwork, and problem-solving skills required for professional success, consistent with the following objectives:
1. Pursue careers where they apply their engineering and problem-solving skills.
2. Pursue advanced studies or other forms of continuing education.
3. Value their University of Minnesota Duluth (UMD) chemical engineering education and endorse the program and its students.

This four-year baccalaureate (B.S.Ch.E.) degree program emphasizes the development of the student's ability to analyze and design chemical processing systems. By the end of the program, the student must demonstrate the ability to solve engineering problems, have a sensitivity to the social and environmental impacts of the engineering profession, and the ability to maintain a high level of competency.

Chemical engineering graduates are qualified for employment in diverse industries, ranging from those that manufacture inorganic chemicals, petrochemicals, plastics, synthetic fibers, paper and pulp, and pharmaceuticals to those that process minerals, materials, and hazardous wastes.

Graduates are qualified for assignments that include plant operations, process development, process control, project engineering, or technical sales, and frequently pursue engineering management later in their careers. They are also qualified to continue with professional or graduate education.

The chemical engineering curriculum is based on fundamental sciences including physics, chemistry, and mathematics; traditional chemical engineering sciences such as material and energy balance, transport phenomena, and thermodynamics; and chemical engineering design courses such as reaction engineering, separations, and unit operations, with a capstone design course during the senior year. Students have an opportunity to become involved in research, through either the Undergraduate Research Opportunities Program or the department honors program.

The Bachelor of Science in Chemical Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

Honors Requirement: To graduate with department honors, students must have a minimum 3.50 GPA and be nominated by the chemical engineering faculty.

Program Delivery

This program is available:
- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students area admitted into the Chemical Engineering program.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:
1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two

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degrees cannot be awarded for the same major.

2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or second major is not required for the B.S.Ch.E.

2. A 2.00 minimum GPA in all courses taken in the chemical engineering major, including required courses in related fields. GPA requirements apply to all courses in the major taken at the University of Minnesota Duluth calculated separately and to all courses in the major when transfer credits are included.

3. A minimum grade of C+ in the following courses: CHE 2111 or 2211, MATH 3280, PHYS 2013 and 2014.

Advanced Writing (3 cr)
WRIT 31xx or higher advanced writing course

Introduction to Chemical Engineering (3 cr)
Transfer students with 36 or more credits and completion of one year of general chemistry and one year of calculus must take an additional 2xxx or higher engineering elective of 3 credits or more instead of CHE 1011.
CHE 1011 - Introduction to Chemical Engineering. [LE CAT] (3.0 cr)
or CHE 2001 - Introduction to Environmental Engineering (3.0 cr)

Chemistry (14 cr)
General Chemistry I with lab
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
General Chemistry II with lab
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
Organic Chemistry I with lab
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)

Mathematics (14 cr)
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Physics (10 cr)
General Physics I
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
General Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
General Physics II
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
General Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)

CHE MEB and Thermodynamics (6 - 7 cr)
CHE 2121 - Chemical Engineering Thermodynamics (3.0 cr)

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CHE 2111 - Material and Energy Balances (3.0 cr)
or CHE 2211 - Materials and Energy Balances (4.0 cr)

CHE DOE and Computational Methods (6 cr)
CHE 2011 - Design of Engineering Experiments (3.0 cr)
CHE 3031 - Computational Methods in Chemical Engineering (3.0 cr)

CHE Materials Science and Engineering (6 cr)
CHE 3231 - Properties of Engineering Materials (3.0 cr)
CHE 3241 - Principles of Particle Technology (3.0 cr)
or CHE 4141 - Material and Minerals Processing (3.0 cr)

CHE Unit Operations I (5 - 6 cr)
CHE 3311 (5 cr) may be substituted for CHE 3111 and CHE 3112. CHE 3311 is only offered in the summer.
CHE 3111 - Fluid Mechanics (3.0 cr)
CHE 3112 - Heat and Mass Transfer (3.0 cr)

CHE Unit Operations II (9 cr)
CHE 3211 - Chemical Engineering Laboratory I [COMM & LAN] (3.0 cr)
CHE 4111 - Separations (3.0 cr)
CHE 4301 - Chemical Reaction Engineering (3.0 cr)

Modeling and Control (6 cr)
CHE 3032 - Chemical Process Modeling and Simulation (3.0 cr)
CHE 4401 - Process Control (3.0 cr)
or CHE 4402 - Process Dynamics and Control (3.0 cr)

CHE Design (6 cr)
CHE 4501 - Chemical Engineering Design I [SUSTAIN] (3.0 cr)
CHE 4502 - Chemical Engineering Design II (3.0 cr)

Advanced CHE Electives (6 cr)
May not be satisfied with CHE 3196 or 3296.
Take 6 or more credit(s) from the following:
Take at most 3 credit(s) from the following:
- CHE 3xxx

- Take 3 or more credit(s) from the following:
  - CHE 4xxx
  - CHE 5xxx

Advanced Chemistry Electives (8 cr)
May not be satisfied with CHEM 4184, 4185, 4634, or 5350.
Take 8 or more credit(s) from the following:
- CHEM 2xxx
- CHEM 3xxx
- CHEM 4xxx
- CHEM 5xxx

Advanced Mathematics or Statistics Electives (3 - 4 cr)
Take 1 or more course(s) from the following:
- MATH 3298 - Calculus III (4.0 cr)
- MATH 3326 - Vectors and Matrices (3.0 cr)
- MATH 3355 - Discrete Mathematics (4.0 cr)
- MATH 4810 - Applied Mathematics: Numerical Methods (4.0 cr)
- MATH 4240 - Applied Mathematics: Operational Methods (3.0 cr)
- MATH 5260 - Dynamical Systems (3.0 cr)
- MATH 5270 - Modeling with Dynamical Systems (3.0 cr)
- MATH 5280 - Partial Differential Equations (3.0 cr)
- MATH 5810 - Linear Programming (3.0 cr)
- MATH 5830 - Numerical Analysis: Approximation and Quadrature (4.0 cr)
- MATH 5840 - Numerical Analysis: Systems and Optimization (4.0 cr)
- MATH 5850 - Numerical Differential Equations (4.0 cr)
- STAT 3411 - Engineering Statistics (3.0 cr)
- STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

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Duluth Campus

Chemistry B.A.

Chemistry and Biochemistry, Swenson College of Science & Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 57 to 65
- Degree: Bachelor of Arts

Chemistry is the study of matter and the physical changes that matter undergoes. Chemical reactions occur every day and in every aspect of life: respiration, metabolism and growth in living systems, combustion in cars and heating plants, pharmaceutical and polymer production, and the conversion of raw materials to usable products.

Chemistry is an important and central subject. Students who are interested in health sciences such as medicine, pharmacy, dentistry, and related fields need to take several semesters of chemistry. Students who like scientific and technical subjects, and who have a solid math and science background from high school, are best prepared to major in chemistry.

Students completing the BA in chemistry generally plan to use chemistry as a study field that complements other areas such as law, library science, technical writing, public relations, or sales. BA students are encouraged to participate in undergraduate research. The major also provides a strong foundation for students planning to go to professional schools, such as medical or pharmacy school.

Honors requirement: Qualified majors may apply after the first semester of their sophomore year. Participants choose a research advisor and complete two semesters of effort on a jointly developed project. Written reports and an oral presentation of the research are also required.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.
   a. The Biochemistry BS may be declared with the Chemistry BA major. However, this combination does not satisfy the requirement

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for a minor or a second major in a different subject.
b. The Biochemistry BA major may be declared.

Learning In Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx

First Year (20 cr)
CHEM 1173/74 and 1175/76 are the preferred courses. High school algebra and high school chemistry is required for CHEM 1173, 1174. This schedule presupposes placement in MATH 1296 as the first course.
Chemistry I with lab
CHEM 1173 - General Chemistry I for Majors [NAT SCI] (4.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1174 - General Chemistry I Lab for Majors [NAT SCI] (1.0 cr)
or CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Chemistry II with lab
CHEM 1175 - General Chemistry II for Majors (4.0 cr)
or CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1176 - General Chemistry II Lab for Majors (1.0 cr)
or CHEM 1156 - General Chemistry Lab II (1.0 cr)
Math
Calculus I
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Second Year (22 cr)
Organic Chemistry I with lab
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
Organic Chemistry II with lab
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)
Quantitative Analysis
CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
Physics I
It is strongly encouraged you take Introduction to Physics I & II PHYS 1001 and PHYS 1002 OR General Physics I & II PHYS 2013 or 2017 with PHYS 2014 and PHYS 2015 or 2018 with PHYS 2016.
Introduction to Physics I
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
or **General Physics I**
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II
Introduction to Physics II
PHYS 1002 - Introduction to Physics II (5.0 cr)
or **General Physics II**
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Third Year (8 - 16 cr)
Biochemistry
Choose one of the Biochemistry course sets.

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Biochemistry with lab
CHEM 3322 - Biochemistry (3.0 cr)
CHEM 3324 - Biochemistry Laboratory (1.0 cr)
or **Biochemistry I and II with lab**
CHEM 4351 - Biochemistry I (3.0 cr)
CHEM 4352 - Biochemistry II (3.0 cr)
CHEM 4363 - Biochemistry Laboratory (2.0 cr)

Physical Chemistry
Choose one of the Physical Chemistry course sets.
Physical Chemistry with lab
CHEM 4633 - Physical Chemistry Laboratory (1.0 cr)
CHEM 4634 - Physical Chemistry (3.0 cr)
or **Physical Chemistry I and II with labs**
CHEM 4641 - Physical Chemistry I (3.0 cr)
CHEM 4643 - Physical Chemistry Laboratory I (1.0 cr)
CHEM 4642 - Physical Chemistry II (3.0 cr)
CHEM 4644 - Physical Chemistry Laboratory II (1.0 cr)

Fourth Year (3 cr)
Inorganic Chemistry
CHEM 3432 - Descriptive Inorganic Chemistry (3.0 cr)

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Duluth Campus

Chemistry B.S.

Chemistry and Biochemistry

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 76 to 80
- Degree: Bachelor of Science

Chemistry is a body of knowledge that helps explain the physical world and its processes. Chemists study substances--their composition, structures, properties, and reactions. The Department of Chemistry and Biochemistry provides classroom and laboratory learning opportunities and research experiences across the discipline designed to meet the needs of students in engineering, liberal arts, and pre-professional programs, as well as those who wish to pursue careers or graduate studies in chemistry or related disciplines.

Honors requirement: The Department of Chemistry and Biochemistry honors program helps outstanding chemistry majors develop into competent, independent research workers, encourages student interest in the discipline, and aids in the transition from student to working scientist. Qualified majors may apply after the first semester of their sophomore year. Participants choose a research adviser and complete two semesters on a jointly developed project. Written reports and an oral presentation of the research are also required.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or second major in a different subject is required.
   a. The Biochemistry BS and Chemistry BS may be declared. This combination satisfies the requirement of a minor or second major in a different subject.
   b. The Biochemistry BA major may be declared.

2. Students earning a BS degree meet the requirements for degree certification by the American Chemical Society.

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Advanced Writing (3 cr)
Advanced Writing 31xx

First Year (20 cr)
CHEM 1173/74 and 1175/76 are the preferred courses. High school algebra and high school chemistry is required for CHEM 1173, 1174. This schedule presupposes placement in MATH 1296 as the first course.

Chemistry I with lab
CHEM 1173 - General Chemistry I for Majors [NAT SCI] (4.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1174 - General Chemistry I Lab for Majors [NAT SCI] (1.0 cr)
or CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Chemistry II with lab
CHEM 1175 - General Chemistry II for Majors (4.0 cr)
or CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1176 - General Chemistry II Lab for Majors (1.0 cr)
or CHEM 1156 - General Chemistry Lab II (1.0 cr)

Math

Calculus I
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Year Two (27 cr)

Mathematics
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Organic Chemistry I and II with lab
CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2545 - Organic Chemistry II Laboratory for B.S. Chemistry Majors (2.0 cr)

Quantitative Analysis
CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)

Physics I with lab
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II with lab
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Year Three (16 - 20 cr)

Biochemistry
Choose one of the following biochemistry course sets.
CHEM 3322 - Biochemistry (3.0 cr)
CHEM 3324 - Biochemistry Laboratory (1.0 cr)
or CHEM 4351 - Biochemistry I (3.0 cr)
CHEM 4352 - Biochemistry II (3.0 cr)
CHEM 4363 - Biochemistry Laboratory (2.0 cr)

Descriptive Inorganic Chemistry
CHEM 3432 - Descriptive Inorganic Chemistry (3.0 cr)

Physical Chemistry I and II with lab
CHEM 4641 - Physical Chemistry I (3.0 cr)
CHEM 4643 - Physical Chemistry Laboratory I (1.0 cr)
CHEM 4642 - Physical Chemistry II (3.0 cr)
CHEM 4644 - Physical Chemistry Laboratory II (1.0 cr)

Undergraduate Seminar I
CHEM 4184 - Undergraduate Seminar I (1.0 cr)

Year Four (10 cr)

Inorganic Chemistry and Lab
CHEM 4436 - Inorganic Chemistry (3.0 cr)
CHEM 4435 - Inorganic Chemistry Laboratory (1.0 cr)

Instrumental Analysis and Lab
CHEM 4242 - Instrumental Analysis (3.0 cr)

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CHEM 4243 - Instrumental Chemistry Laboratory (2.0 cr)

Undergraduate Seminar II

CHEM 4185 - Undergraduate Seminar II (1.0 cr)

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Duluth Campus

Chemistry Minor

Chemistry and Biochemistry

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 29 to 30

Chemistry helps explain the physical world and its processes.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Chemistry Minor Courses (29-30 cr)

Chemistry I and II with labs

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)

Mathematics

Take 1 or more course(s) from the following:

- MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)
- MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
- MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Organic Chemistry I and II with labs

CHEM 2541 - Organic Chemistry I (3.0 cr)
CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
CHEM 2542 - Organic Chemistry II (3.0 cr)
CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)

Quantitative Chemistry

CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
or CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
or CHEM 2242 - Analytical Chemistry and the Environment in Poland (4.0 cr)

Biochemistry or Physical Chemistry

Take 1 or more course(s) from the following:

- CHEM 3322 - Biochemistry (3.0 cr)
- CHEM 4351 - Biochemistry I (3.0 cr)
- CHEM 4634 - Physical Chemistry (3.0 cr)
- CHEM 4641 - Physical Chemistry I (3.0 cr)

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Duluth Campus

Civil Engineering B.S.C.E.

UMD-Civil Engineering, Dept of

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 131
- Required credits within the major: 116
- This program requires summer terms.
- Degree: Bachelor of Science in Civil Engineering

The B.S.C.E. program in civil engineering integrates topics from chemistry, physics, advanced mathematics, statistics, geology, and core engineering science to prepare graduates to work professionally in public and private organizations that design, develop, and construct structures; design, build, and maintain transportation systems and infrastructure; and design, operate, and control water resource systems. Graduates are rooted in safe and efficient design skills and show respect for and strive to improve the environment wherever they work.

The program includes four areas in civil engineering: transportation engineering, environmental and water resource engineering, structural engineering, and geotechnical engineering. Upper division students are exposed to each of these areas and obtain an in-depth knowledge in at least one area by taking additional elective courses.

Civil engineering graduates are qualified for employment in a wide variety of organizations, both public and private, including design, material testing and manufacture, construction, transportation, natural resources development, and energy. Graduates are prepared to begin their first step toward professional registration by taking the FE exam before completing their collegiate degree. They are also well qualified to continue with graduate education in civil engineering or engineering management.

Students in the B.S.C.E. program have the opportunity to put their design and entrepreneurial skills to use in professional engineering society design competitions, projects sponsored by regional companies, and research projects in the Undergraduate Research Opportunities Program.

The Bachelor of Science in Civil Engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

Honors Requirement: To graduate with department honors, a student must have a 3.40 GPA, be an active member of Tau Beta Pi or a professional engineering society (e.g. ASCE, ACI, AISC, DTSO, PCI, SWE, & SME), and be nominated by a department faculty member.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

Students are admitted to the Civil Engineering program. Freshmen, sophomores, and transfer students may declare a CE major and be admitted to the Civil Engineering program. Students must successfully complete 11 foundation courses before enrollment in to the advanced BSCE requirements.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.

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2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of student (e.g. minor, major, degree) is not required for this major.

2. Summer terms are not required but are optional for all students.

3. C- or better is required in all Civil Engineering (CE) courses.

4. An application is required for enrollment in upper division BSCE requirements. Students must have completed the 11 foundation classes, plus WRIT 1120 with a C- or better in each class and a cumulative GPA of 2.5 or better. Application and direction for submission is found on the Civil Engineering website: https://scse.d.umn.edu/about/departments-and-programs/civil-engineering-department

Advanced Writing (3 cr)
WRIT 31xx - Adv Writ (3 cr)

Core and Foundations (34 cr)
Chemistry I with lab
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Civil Engineering
CE 1025 - Introduction to Civil Engineering (1.0 cr)
CE 2015 - Engineering Statics (3.0 cr)
CE 2016 - Engineering Mechanics of Materials (3.0 cr)
Computer Science
CS 1151 - Introduction to Programming in Python (3.0 cr)
Mathematics
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
Physics I with lab
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Additional B.S.C.E. Requirements (21 cr)
Communications
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
Economics
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)
Mathematics and Statistics
MATH 3298 - Calculus III (4.0 cr)
STAT 3411 - Engineering Statistics (3.0 cr)
Physics II with lab
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)
Science Elective
3 credits of science electives must be taken and can be chosen from any course in the Biology BS, Environmental Science BS or

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Geological Science BS majors. BIOL 1001 may not be used to fulfill this requirement.

Civil Engineering Core (43 cr)

Civil Engineering Tools

CE 2020 - Computational Tools for Civil Engineers (4.0 cr)
CE 3015 - CAD & Engineering Drawing (4.0 cr)

Civil Engineering Courses

CE 3026 - Project Management (3.0 cr)
CE 3115 - Structural Analysis (3.0 cr)
CE 3221 - Fluid Mechanics (3.0 cr)
CE 3316 - Transportation Engineering (3.0 cr)
CE 4126 - Design of Concrete Structures (3.0 cr)

Civil Engineering Laboratory Courses

CE 3025 - Environmental Engineering [SUSTAIN] (4.0 cr)
CE 3027 - Infrastructure Materials (4.0 cr)
CE 3225 - Hydraulics and Hydrology (4.0 cr)
CE 3426 - Soil Mechanics (4.0 cr)

Capstone Experience

CE 4255 - Senior Design (4.0 cr)

Technical Electives (3 cr)

The technical elective can be chosen from any course in the Swenson College of Science and Engineering at 2xxx or above (including CE courses not already counted toward the degree); includes AIR AMS AST BIO CE CHE CS EE EES EMGT ENGR IE MATH ME PHYS STAT and WRS. CHEM 1155 and CHEM 1156, CHEM 1175 and CHEM 1176, as well as GIS 3564, or SAFE 6051 can also be used to fulfill technical elective requirement. STAT 2411 and the Science Elective may not be used to fulfill this requirement.

Civil Engineering Electives (12 cr)

Choose 12 credits from the courses listed below. At least two courses (6 credits) must be taken from the same area. CE 4991 (Independent Study), CE 4995 (Special Topics), and CE 4996 (Independent Study) are allowed with Department approved petition.

Structural Engineering Area

Take 0 or more course(s) from the following:

- BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
- CE 4100 - Applications of Management in Resilient Precast Concrete (1.0 cr)
- CE 4115 - Design of Steel Structures (3.0 cr)
- CE 4128 - Prestressed Concrete Structures (3.0 cr)
- CE 4131 - Design of Wood and Masonry Structures (3.0 cr)
- CE 4134 - Advanced Steel Design (3.0 cr)
- CE 4135 - Advanced Reinforced Concrete Design (3.0 cr)
- CE 4136 - Structural Systems (3.0 cr)
- CE 4137 - Advanced Structural Analysis (3.0 cr)
- CE 4515 - Sustainable Design [SUSTAIN] (3.0 cr)
- CE 4545 - Design of Structures with Advanced Materials (3.0 cr)
- CE 5027 - Advanced Concrete Materials and Repair (3.0 cr)
- CE 5115 - Structural Dynamics (3.0 cr)
- CE 5116 - Seismic Design and Analysis (3.0 cr)
- CE 5127 - Bridge Analysis and Design (3.0 cr)
- CE 5128 - Prestressed Concrete Structures (3.0 cr)
- CE 5129 - Post-Tensioned Concrete Structures (3.0 cr)
- CE 5134 - Advanced Steel Design (3.0 cr)
- CE 5135 - Advanced Reinforced Concrete Design (3.0 cr)
- CE 5136 - Structural Systems (3.0 cr)
- CE 5137 - Advanced Structural Analysis and Design (3.0 cr)
- CE 5515 - Sustainable Design and Construction (SUSTAIN) (3.0 cr)
- CE 5545 - Design of Structures with Advanced Materials (3.0 cr)

-OR-

Environmental and Water Resources Engineering Area

Take 0 or more course(s) from the following:

- CE 4213 - Open Channel Hydraulics (3.0 cr)
- CE 4215 - Hydraulic Design (3.0 cr)
- CE 4228 - Watershed Engineering (3.0 cr)
- CE 4237 - Water Quality Engineering (3.0 cr)
- CE 4246 - Environmental Remediation Technologies (3.0 cr)
- CE 4256 - Design of Water and Wastewater Treatment Plants (3.0 cr)
- CE 4257 - Municipal Solid Waste Management and Hazardous Waste Systems (3.0 cr)

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•CE 5201 - Water Policy (3.0 cr)
•CE 5203 - Stream Crossing and Culvert Design (3.0 cr)
•CE 5216 - Applications in Environmental Modeling (3.0 cr)
•CE 5226 - Water Resources Engineering (3.0 cr)
•CE 5237 - Water Quality Engineering (3.0 cr)
•CE 5241 - Water Chemistry (3.0 cr)
•CE 5246 - Environmental Remediation Technologies (3.0 cr)
•CE 5251 - Design of Chemical Physical Unit Operations in Water Treatment (4.0 cr)
•CE 5525 - Decision, Risk and Reliability (3.0 cr)

-OR-

Transportation Engineering Area

Take 0 or more course(s) from the following:
•CE 4315 - Design of Traffic Systems (3.0 cr)
•CE 4316 - Pavement Analysis and Design (3.0 cr)
•CE 4318 - Pavement Maintenance, Rehabilitation, and Management (3.0 cr)
•CE 4320 - Advanced Pavement Materials, Design and Construction (3.0 cr)
•CE 4326 - Highway Planning and Design (3.0 cr)
•CE 4328 - Transportation System Planning and Analysis (3.0 cr)
•CE 5315 - Design of Traffic Systems (3.0 cr)
•CE 5316 - Pavement Analysis and Design (3.0 cr)
•CE 5317 - Traffic Flow Theory and Modeling (3.0 cr)
•CE 5318 - Pavement Maintenance, Rehabilitation, and Management (3.0 cr)
•CE 5320 - Advanced Pavement Materials, Design and Construction (3.0 cr)
•CE 5326 - Highway Planning and Design (3.0 cr)

-OR-

Geotechnical Engineering Area

Take 0 or more course(s) from the following:
•CE 4415 - Geotechnical Design (3.0 cr)
•CE 4422 - Numerical Modeling in Geotechnical Engineering (3.0 cr)
•CE 4426 - Rock Mechanics (3.0 cr)
•CE 5420 - Advanced Soil Mechanics (3.0 cr)
•CE 5421 - Applied Geostatistics (3.0 cr)
•CE 5422 - Numerical Modeling in Geotechnical Engineering (3.0 cr)
•CE 5426 - Rock Mechanics (3.0 cr)

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Duluth Campus

Computer Engineering Minor

Electrical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 36

The Computer Engineering minor provides students with basic knowledge and skills needed to understand, analyze, and design computer hardware and software systems. It provides high quality education in topics related to computer engineering that will prepare students for employment opportunities in the private and public sectors, graduate studies, and research.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division (32 cr)

Calculus I and II Requirement

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Computer Science

CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
CS 1521 - Computer Science II (5.0 cr)

Computer Engineering Core

CS 2511 - Software Analysis and Design (4.0 cr)
EE 1315 - Digital Logic (4.0 cr)
CS 2521 - Computer Organization and Architecture (4.0 cr)
or EE 2325 - Microprocessor Systems (4.0 cr)

Advanced Core Requirement (4 cr)

CS 4412 - Computer Architecture (4.0 cr)
or EE 4305 - Computer Architecture (4.0 cr)

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Duluth Campus

Computer Science B.A.

Computer Science

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 57 to 58
- Degree: Bachelor of Arts

Computers are ubiquitous in today's society and have application in nearly every aspect of our working and personal lives. The field of computer science has evolved to the point where advanced computer science techniques are now an integral component in nearly every discipline. Computing professionals who have sufficient exposure to a second discipline in their undergraduate studies are desperately needed in order to interact in a knowledgeable manner with experts in other areas in order to solve a broad range of problems. The computer science BA degree program prepares students to become such computing professionals and also allows for the pursuit of graduate and professional degrees in a wide range of disciplines.

The computer science BA is an interdisciplinary program that will produce computing professionals who have the necessary depth of expertise in computer science to have lifelong professional careers in the field. The program requires each student to gain knowledge and experience in the fundamentals of computer science, including computer organization and architecture, data structures and related algorithms, and programming languages. In addition, it allows for significant course work in a second complementary discipline. Students who complete this degree will have enormous flexibility and opportunity in their future careers and education since there is no discipline that is not touched in significant ways by computer science.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major. The computer engineering minor may not be used to satisfy this requirement.

2. This schedule presupposes placement into MATH 1296.

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3. A grade of C- or better is required in Computer Science I (CS 1511 or CS 1581), CS 1521, CS 2511, and CS 2521.

4. Senior survey; contact the computer science office for details.

Learning In Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 31xx Adv Writing (3 cr)

Core (18 cr)
Computer Science 1
CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
CS 1521 - Computer Science II (5.0 cr)
CS 2511 - Software Analysis and Design (4.0 cr)
CS 2521 - Computer Organization and Architecture (4.0 cr)

Advanced Courses (12 cr)
CS 3541 - Software Engineering (4.0 cr)
CS 3111 - Computer Ethics [HUMANITIES] (4.0 cr)
or CS 3531 - Automata and Formal Languages (4.0 cr)
CS 2531 - Discrete Structures for Computer Science (4.0 cr)
or MATH 3355 - Discrete Mathematics (4.0 cr)

Electives (12 cr)
Take 12 or more credit(s) from the following:
•CS 4xxx

Courses Required From Other Programs (11 - 12 cr)
Communications
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
Mathematics
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Statistics
STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

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Duluth Campus

Computer Science B.S.

Computer Science

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 81 to 86
- Degree: Bachelor of Science

Computer science is a discipline that requires understanding the design of computers and computational processes. The BS in computer science is an accredited, four-year program that provides a solid foundation in mathematics and statistics, computational problem solving, software design and analysis, programming languages, algorithms, data structures, and computer organization and architecture. The program also requires that students acquire significant knowledge in several sub-disciplines of computer science, thus enabling them to apply and situate their knowledge of computer science fundamentals.

Graduates of the program will have an ability to:
1 - Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2 - Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the programs discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the programs discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

The program provides the necessary foundational studies for students preparing for graduate school, as well as those seeking careers in industry.

The program is accredited by the Computing Accreditation Commission of ABET, http://www.abet.org.

Honors requirement: Program candidates submit an application to the department honors committee. Participants must maintain a 3.00 cumulative GPA and a 3.30 GPA in the major and complete an honors research project supervised by a faculty member; credit for the project can be earned in CS 4994 - Honors Project.

Program Delivery

This program is available:
- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.

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8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or a second major from another department; the computer engineering minor may not be used to satisfy this requirement.

2. A grade of C- or better is required in Core courses (CS 1511 or CS 1581), CS 1521, CS 2511, CS 2521, and CS 2531 or MATH 3355.

3. Senior survey; contact the computer science office for details.

Advanced Writing (3 cr)
WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Core (22 cr)
CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
CS 1521 - Computer Science II (5.0 cr)
CS 2511 - Software Analysis and Design (4.0 cr)
CS 2521 - Computer Organization and Architecture (4.0 cr)
CS 2531 - Discrete Structures for Computer Science (4.0 cr)
or MATH 3355 - Discrete Mathematics (4.0 cr)

Advanced Core (20 cr)
CS 3111 - Computer Ethics [HUMANITIES] (4.0 cr)
CS 3531 - Automata and Formal Languages (4.0 cr)
CS 3541 - Software Engineering (4.0 cr)
CS 4312 - Operating Systems (4.0 cr)
CS 4332 - Computer Security (4.0 cr)

Advanced Electives (12 cr)
Take 3 or more course(s) totaling 12 or more credit(s) from the following:
Take 1 or more course(s) from the following:
- CS 4112 - Advanced Theory of Computation (4.0 cr)
- CS 4122 - Advanced Algorithms and Data Structures (4.0 cr)
- CS 4212 - Computer Graphics (4.0 cr)
- CS 4232 - Machine Learning & Data Mining (4.0 cr)
- CS 4242 - Natural Language Processing (4.0 cr)
- CS 4322 - Database Management Systems (4.0 cr)
- CS 4412 - Computer Architecture (4.0 cr)
- CS 4422 - Computer Networks (4.0 cr)

- Take 0 or more course(s) from the following:
  - CS 4222 - Artificial Intelligence (4.0 cr)
  - CS 4342 - Compiler Design (4.0 cr)
  - CS 4432 - Sensors and Internet of Things (4.0 cr)
  - CS 4995 - Special Topics: (Various Titles to be Assigned) (1.0 - 4.0 cr)

Courses From Other Programs (14 - 16 cr)
Communications
COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
Mathematics and Statistics
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 3326 - Vectors and Matrices (3.0 cr)
or MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Lab Science Foundations (10-13 cr)
Complete one of the following lab science sequences:
Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
or **Chemistry**
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)

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CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
or **Earth & Environmental Science**
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
Take 2 or more course(s) from the following:
•EES 2010 - Surface Processes (4.0 cr)
•EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
•EES 2120 - The Earth's Dynamic Interior (3.0 cr)
•EES 2311 - Mineralogy (4.0 cr)
•EES 2312 - Petrology (4.0 cr)
•EES 3420 - Sedimentology and Stratigraphy (4.0 cr)
or **Physics**
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

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Duluth Campus

Computer Science Minor

Computer Science

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 34

Computer science is a discipline that requires understanding the design of computers and computational processes.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Minor Courses (23 cr)

Computer Science

CS 1511 - Computer Science I [LE CAT] (5.0 cr)
CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
CS 1521 - Computer Science II (5.0 cr)
CS 2511 - Software Analysis and Design (4.0 cr)

Calculus I

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Discrete

CS 2531 - Discrete Structures for Computer Science (4.0 cr)
or MATH 3355 - Discrete Mathematics (4.0 cr)

Electives (11 cr)

Take 11 or more credit(s) from the following:

- CS 35xx or above
- CS 4xxx
- EE 4341 - Digital Systems (4.0 cr)
- EE 4305 - Computer Architecture (4.0 cr)
- CS 2521 - Computer Organization and Architecture (4.0 cr)
  or EE 2325 - Microprocessor Systems (4.0 cr)

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Duluth Campus

Electrical Engineering B.S.E.E.

Electrical Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 127 to 130
- Required credits within the major: 112 to 115
- Degree: Bachelor of Science in Electrical Engineering

The electrical engineering B.S.E.E. program is concerned with the theory, design, and application of electrical phenomena. The department displays strengths in such diverse areas as microelectronics and VLSI, signal processing, electromagnetics, digital computer systems, automatic control, communications, and power and energy. The program balances theoretical and practical experience in electrical engineering through analysis, synthesis, and experimentation, using facilities that include major instructional laboratories and research laboratories.

The bachelor of science in electrical engineering is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or second major is not required for B.S.E.E.

2. EE majors must meet with their advisers each semester. See department for details.

3. Completion of the EE "Exit Survey," and a one-to-one exit interview with the EE department head.

Advanced Writing (3 cr)

Advanced Writing

WRIT 3130 - Advanced Writing: Engineering (3.0 cr)

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Introduction to Electrical Engineering (2 cr)
EE 1001 - Introduction to Electrical Engineering (2.0 cr)

Foundations (8 cr)
EE 1315 - Digital Logic (4.0 cr)
EE 2006 - Electrical Circuit Analysis (4.0 cr)

Core I (12 cr)
EE 2111 - Linear Systems and Signal Analysis (4.0 cr)
EE 2212 - Electronics I (4.0 cr)
EE 2325 - Microprocessor Systems (4.0 cr)

Core II (11 cr)
EE 3151 - Control Systems (4.0 cr)
EE 3235 - Electronics II (4.0 cr)
EE 3445 - Electromagnetic Fields (3.0 cr)

EE Electives (21 cr)
Minimum one course from four out of the five areas of specialization. The rest of the credits can be filled from any of the five areas.
With approval, students may also take EE 5995 Special Topics course; group assigned will depend upon topics title.
Take 21 or more credit(s) from the following:

Communications and Signal Processing
- EE 4477 - Antennas and Transmission Lines (3.0 cr)
  or EE 5479 - Antennas and Transmission Lines Laboratory (1.0 cr)
  or EE 5741 - Digital Signal Processing (3.0 cr)
  or EE 5745 - Medical Imaging (3.0 cr)
  or EE 4765 - Modern Communication Systems (4.0 cr)

Controls and Robotics
- EE 4151 - Digital Control System Design (3.0 cr)
  or EE 4161 - Linear State=Space Control Systems (3.0 cr)
  or EE 4351 - Introduction to Robotics and Mobile Control Architecture (3.0 cr)
  or EE 5801 - Introduction to Artificial Neural Networks (3.0 cr)

Digital Systems
- EE 4305 - Computer Architecture (4.0 cr)
  or EE 4321 - Computer Networks (3.0 cr)
  or EE 4341 - Digital Systems (4.0 cr)
  or EE 5315 - Multiprocessor-Based System Design (3.0 cr)

Microelectronics and VLSI
- EE 4311 - Design of VLSI Circuits (4.0 cr)
  or EE 4611 - Introduction to Solid-State Semiconductors (3.0 cr)
  or EE 4621 - Microelectronics Technology (3.0 cr)

Power and Energy
- EE 4501 - Power Systems (4.0 cr)
  or EE 4522 - Power Electronics I (3.0 cr)
  or EE 4533 - Grid - Resiliency, Efficiency and Technology (3.0 cr)
  or EE 5501 - Energy Conversion System (3.0 cr)

Non-EE Electives (3 - 5 cr)
Take 3 or more credit(s) from the following:
- CE 2017 - Engineering Mechanics: Statics and Mechanics of Materials (5.0 cr)
- CHE 2001 - Introduction to Environmental Engineering (3.0 cr)
- CHE 2111 - Material and Energy Balances (3.0 cr)
- IE 3115 - Operations Research (4.0 cr)
- ME 2105 - Introduction to Material Science for Engineers (3.0 cr)

Courses From Other Programs (48 - 49 cr)
First math course is determined by the ACT math score. This schedule presupposes placement into Math 1296.

Chemistry I with lab
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Computer Science
CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)

Economics
ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)

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or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Mathematics and Statistics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)
STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Ethics

CS 3111 - Computer Ethics [HUMANITIES] (4.0 cr)
or PHIL 3242 - Values and Technology [LE CAT8, HUMANITIES] (3.0 cr)
or PHIL 3325 - Environmental Ethics [HUMANITIES, SUSTAIN] (4.0 cr)

Physics I course

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II course

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Senior Design (4 cr)

EE 4899 - Senior Design Project I (1.0 cr)
EE 4999 - Senior Design Project II (3.0 cr)
or EE 4951 - Design Workshop (4.0 cr)

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Duluth Campus

Electrical Engineering Minor

Electrical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 43 to 44

The Electrical Engineering minor provides students with basic knowledge and skills needed to understand electrical circuits, signal analysis, electronics and digital systems. It provides high quality education in electrical engineering related topics that will prepare students for employment opportunities in the private and public sectors.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division (40 cr)

Engineering

EE 1315 - Digital Logic (4.0 cr)
EE 2006 - Electrical Circuit Analysis (4.0 cr)
EE 2111 - Linear Systems and Signal Analysis (4.0 cr)
EE 2212 - Electronics I (4.0 cr)

Mathematics

Calculus I

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Physics

Physics I course

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II course

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Upper Division (3 - 4 cr)

Take 1 or more course(s) from the following:

- EE 3151 - Control Systems (4.0 cr)
- EE 3235 - Electronics II (4.0 cr)
- EE 3445 - Electromagnetic Fields (3.0 cr)
- EE 4501 - Power Systems (4.0 cr)
- EE 4611 - Introduction to Solid-State Semiconductors (3.0 cr)

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Duluth Campus

Energy Engineering Minor

Electrical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 45 to 46
- none

The energy engineering minor provides students with basic knowledge and skills needed to understand, address, and make effective decisions about the generation, production, utilization, and application of energy. It provides high-quality education in energy-related topics that will prepare students for employment opportunities in the private and public sectors, graduate studies, and research.

This interdisciplinary minor, administered by the Department of Electrical and Computer Engineering, is designed for students with majors in engineering. However, students with majors in other disciplines may also apply, should they meet the course prerequisites. The coursework provides broad-based science and engineering knowledge suited to energy generation, production, utilization, and application. The minor enhances degrees in engineering.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Pre-Minor Core (29 cr)

Chemistry I with lab

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Mathematics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Physics I with lab

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II with lab

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Core Courses (10 - 11 cr)

CHE 2121 - Chemical Engineering Thermodynamics (3.0 cr)
or ME 2211 - Thermodynamics [SUSTAIN] (3.0 cr)
CHE 2111 - Material and Energy Balances (3.0 cr)
or CHE 2211 - Materials and Energy Balances (4.0 cr)
EE 2006 - Electrical Circuit Analysis (4.0 cr)

Electives (6 cr)

Take 6 or more credit(s) from the following:

- CE 5515 - Sustainable Design and Construction (SUSTAIN) (3.0 cr)
- CHE 4603 - Biorenewable Resources [SUSTAIN] (3.0 cr)
- CHE 5612 - Hazardous Waste Process Engineering (3.0 cr)
- EE 4501 - Power Systems (4.0 cr)
- EE 5533 - Grid- Resiliency, Efficiency and Technology (3.0 cr)
- ME 4050 - Fundamentals of Nuclear Engineering (3.0 cr)
- ME 4375 - Pipeline Engineering (3.0 cr)
- ME 5050 - Fundamentals of Nuclear Engineering (3.0 cr)
- EE 5501 - Energy Conversion System (3.0 cr)
  or ME 5325 - Sustainable Energy System (3.0 cr)

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Duluth Campus

Engineering Physics B S E P

UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 127 to 129
- Required credits within the major: 109 to 111
- Degree: Bachelor of Science in Engineering Physics

Engineering physics is the study of the combined disciplines of physics, engineering, and mathematics in order to develop an understanding of the interrelationships of these three disciplines. Fundamental physics is combined with problem solving and engineering skills, which then has broad applications. Career paths for Engineering physics is usually (broadly) "engineering, applied science, or applied physics through research, teaching, or entrepreneurial engineering." This interdisciplinary knowledge is designed for the continuous innovation occurring with technology.

Unlike traditional engineering disciplines, engineering physics is not confined to a particular branch of physics or engineering. Instead, engineering physics is meant to provide a more thorough grounding in applied physics for a selected specialty such as electrical engineering, mechanical engineering, or a combination of engineering disciplines. It is the discipline devoted to creating and optimizing engineering solutions through enhanced understanding and integrated application of mathematical, scientific, statistical, and engineering principles. The discipline is also meant for cross-functionality and bridges the gap between physics and practical engineering with emphasis in research and development, design, and analysis. The distinguishing feature of an engineering physics program is a focus on the fundamentals of physics and mathematics, both experimental and theoretical, that are at the heart of modern engineering and research and have broad applicability. In this program students combine this physics base with a firm background in engineering or applied science.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

A GPA above 2.5 is preferred for students already admitted to the degree-granting college, transferring from another University of Minnesota College, or transferring from outside the university.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

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Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

Advanced Writing (3 cr)

WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3180 - Honors: Advanced Writing (3.0 cr)

Engineering Physics Foundation (51 cr)

Chemistry I with Lab

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Mathematics

The first math course is determined by ACT math score. The sample plan presupposes placement into MATH 1296 with Physics I in the spring semester.

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)

Statistics

STAT 3411 - Engineering Statistics (3.0 cr)

Physics I Lecture

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I Lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II Lecture

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II Lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Engineering

CE 2015 - Engineering Statics (3.0 cr)
CE 2016 - Engineering Mechanics of Materials (3.0 cr)
EE 2006 - Electrical Circuit Analysis (4.0 cr)
ENGR 1210 - Introduction to Engineering (2.0 cr)
ME 2226 - Dynamics (3.0 cr)

Computer Science and Economics (7 - 8 cr)

Computer Science

CS 1411 - Introduction to Programming in Matlab (4.0 cr)
or CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)

Economics

ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

Physics (14 cr)

PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
PHYS 2022 - Classical Physics (4.0 cr)
PHYS 2033 - Classical and Quantum Physics Lab (2.0 cr)
PHYS 4001 - Classical Mechanics (4.0 cr)

Engineering Core (20 cr)

Thermodynamics

ME 2211 - Thermodynamics [SUSTAIN] (3.0 cr)

Electrical Engineering

EE 2111 - Linear Systems and Signal Analysis (4.0 cr)
EE 2212 - Electronics I (4.0 cr)
EE 3445 - Electromagnetic Fields (3.0 cr)

Professional and Practice

EMGT 4110 - Engineering Professionalism and Practice (2.0 cr)

Senior Project

EE 4899 - Senior Design Project I (1.0 cr)
EE 4999 - Senior Design Project II (3.0 cr)

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or EE 4951 - Design Workshop (4.0 cr)
or ME 4255 - Multidisciplinary Senior Design (4.0 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans.

Materials

Required credits within the major: 110 - 111
Required credits to graduate with degree: 128 - 129

An interdisciplinary field, which deals with the discovery and design of new materials. This sub-plan prepares students for a career in industry or graduate study in Materials Science and Engineering.

Materials (15 cr)
IE 3130 - Materials Processing Engineering (3.0 cr)
ME 2105 - Introduction to Material Science for Engineers (3.0 cr)
Electives
Take 9 or more credit(s) from the following:
- EE 4611 - Introduction to Solid-State Semiconductors (3.0 cr)
- ME 3140 - System Dynamics and Control (3.0 cr)
- ME 3230 - Kinematics and Mechatronics (3.0 cr)
- ME 5315 - Nondestructive Evaluation of Engineering Materials (3.0 cr)
- ME 5345 - Smart Materials and Structures (3.0 cr)

Systems

Required credits within the major: 109 - 110
Required credits to graduate with degree: 127 - 128

The application of engineering and physical principles and design concepts to enable the realization of successful systems. Successful systems must satisfy the needs of their customers, users, and other stakeholders. This sub-plan is good preparation for students who want a career in industry or entry into graduate school.

Systems (14 cr)
ENGR 1222 - Introduction to Solid Modeling (2.0 cr)
ME 3140 - System Dynamics and Control (3.0 cr)
Electives
Take 9 or more credit(s) from the following:
- EE 3235 - Electronics II (4.0 cr)
- EE 4501 - Power Systems (4.0 cr)
- EE 5501 - Energy Conversion System (3.0 cr)
- ME 4050 - Fundamentals of Nuclear Engineering (3.0 cr)
- ME 4060 - Machine Vision and Image Based Robot Control (3.0 cr)
- ME 4135 - Robotics and Controls (3.0 cr)
- ME 4145 - CAD/CAM (4.0 cr)
- ME 4175 - Machine Design (3.0 cr)

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Duluth Campus

Environmental Engineering Minor

Chemical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 54 to 59

The environmental engineering minor develops a student's ability to understand and address environmental concerns. Coursework provides broad-based science and engineering knowledge suited to pollution prevention and waste management. The minor enhances degrees in science or other engineering fields.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Lower Division (38 - 40 cr)

Chemistry I and II with labs

Chemistry I

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Chemistry II

CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)

Chemical Engineering

Material Energy Balances

CHE 2111 - Material and Energy Balances (3.0 cr)
or CHE 2211 - Materials and Energy Balances (4.0 cr)

Chemical and Environmental Engineering

CHE 1011 - Introduction to Chemical Engineering. [LE CAT] (3.0 cr)
or CHE 2001 - Introduction to Environmental Engineering (3.0 cr)

Analytical Chemistry

CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
or CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)

Mathematics

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Physics I with lab requirement

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Electives

Take 1 or more course(s) from the following:

- CHE 2011 - Design of Engineering Experiments (3.0 cr)
- STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)
- STAT 3411 - Engineering Statistics (3.0 cr)
- STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Additional Requirements (10 - 11 cr)

Students taking CE 3025 should replace CHE 1011 or CHE 2001 with an additional upper division elective.

Mathematics

MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Fluid Mechanics

CE 3221 - Fluid Mechanics (3.0 cr)
or CHE 3111 - Fluid Mechanics (3.0 cr)

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or ME 3111 - Fluid Mechanics (3.0 cr)

Mass and Energy Balances

CE 3025 - Environmental Engineering [SUSTAIN] (4.0 cr)
or CHE 3112 - Heat and Mass Transfer (3.0 cr)
or ME 4112 - Heat and Mass Transfer (3.0 cr)

Advanced Electives (6-8 cr)

Other upper division electives may be substituted subject to department approval.
Take 2 or more course(s) from the following:

- BIOL 5807 - Mathematical Ecology (3.0 cr)
- CE 3225 - Hydraulics and Hydrology (4.0 cr)
- CE 4215 - Hydraulic Design (3.0 cr)
- CE 4237 - Water Quality Engineering (3.0 cr)
- CE 4256 - Design of Water and Wastewater Treatment Plants (3.0 cr)
- CE 4257 - Municipal Solid Waste Management and Hazardous Waste Systems (3.0 cr)
- CE 4515 - Sustainable Design [SUSTAIN] (3.0 cr)
- CE 5201 - Water Policy (3.0 cr)
- CE 5216 - Applications in Environmental Modeling (3.0 cr)
- CE 5226 - Water Resources Engineering (3.0 cr)
- CE 5237 - Water Quality Engineering (3.0 cr)
- CE 5421 - Applied Geostatistics (3.0 cr)
- CE 5515 - Sustainable Design and Construction (SUSTAIN) (3.0 cr)
- CHE 4601 - Biochemical Engineering I (3.0 cr)
- CHE 4603 - Biorenewable Resources [SUSTAIN] (3.0 cr)
- CHE 4613 - Air Pollution Control (3.0 cr)
- CHE 5601 - Biochemical Engineering I (3.0 cr)
- CHE 5612 - Hazardous Waste Process Engineering (3.0 cr)
- ES 3500 - Ecological Economics (3.0 cr)
- EES 3201 - Mineral Resources (3.0 cr)
- EES 3202 - Energy Resources (3.0 cr)
- EES 3100 - Earth's Climate and Environment: Past and Future (3.0 cr)
- GEOL 5240 *{Inactive}*(4.0 cr)
- EES 5250 - Hydrogeology (4.0 cr)
- ME 4050 - Fundamentals of Nuclear Engineering (3.0 cr)
- ME 4365 - Global Sustainability Experience in Design/Manufacturing in Africa (3.0 cr)
- ME 5305 - Computational Fluid Dynamics (3.0 cr)
- ME 5325 - Sustainable Energy System (3.0 cr)
- ME 5335 - Introduction to Finite Element Analysis (3.0 cr)

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Duluth Campus

Environmental Science B.S.

D Earth & Environmental Sci

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 93 to 95
- Degree: Bachelor of Science

The BS in environmental science is designed for students who want a multidisciplinary science education focusing on aspects of the environment. This environmental science program requires a broad base of knowledge in the basic sciences and mathematics, physics, chemistry, biology, earth sciences, and statistics. In addition, prudent study of environmental science requires understanding of economic, political, and ethical considerations. Environmental science features an intense grounding in resource issues and builds on the strength of UMD in freshwater issues. In addition, the capstone course deals with sources, distribution, and ultimate fate of air, water, and solid waste pollution. Elective courses from areas such as habitats, climate processes, environmental chemistry, quantitative methods, and global resources are also required.

The program is predicated on the belief that a student graduating with a BS in environmental science should have a firm background in physical and life sciences and a basic understanding of 1) existing environmental policies and regulations and the legislative process of their formation; 2) the major environmental issues including water, global climate, energy, pollution, and population; and 3) techniques of environmental monitoring and prediction.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For entering freshmen, the only admission requirement is acceptance into the College of Science and Engineering. Transfer students must meet campus and college requirements and are accepted into the program at the level corresponding to credits completed, based on existing transfer manuals and on faculty judgment when courses are not in existing manuals.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required with this major.

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Advanced Writing (3 cr)
WRIT 3150 - Advanced Writing: Science (3.0 cr)

Introductory Earth Science (3 - 4 cr)
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
or GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Earth Science Core (26 - 27 cr)
EES 2010 - Surface Processes (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
Advanced Environmental Science Courses (12 cr)
EES 3201 - Mineral Resources (3.0 cr)
EES 3202 - Energy Resources (3.0 cr)
EES 3203 - Environmental Hydrology (3.0 cr)
EES 4102 - Environmental Assessment (3.0 cr)
Pollution (3 cr)
CHE 4613 - Air Pollution Control (3.0 cr)
or CE 4237 - Water Quality Engineering (3.0 cr)
or CE 4246 - Environmental Remediation Technologies (3.0 cr)
Water Sciences (3 - 4 cr)
EES 4201 - Watershed Hydrology (3.0 cr)
or EES 5250 - Hydrogeology (4.0 cr)

Required Courses From Other Programs (49 cr)
Biology
BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
BIOL 2801 - General Ecology (3.0 cr)
BIOL 2802 - Ecology Laboratory (2.0 cr)
Chemistry I and lab
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Chemistry II and lab
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
Additional Chemistry
Environmental Chemistry
CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
or **Quantitative Analysis**
CHEM 2222 - Quantitative Analysis (3.0 cr)
CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
Mathematics
Calculus I
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Physics I course
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II course
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)

Electives (12 cr)
Environmental Science students are required to take elective courses in science and engineering. Recommended courses that can fulfill this requirement specific to particular environmental science concentrations are listed on the Department of Earth and Environmental Science website https://scse.d.umn.edu/about/departments-and-programs/earth-environmental-sciences
Earth Science Electives
Take 1 or more course(s) totaling 3 or more credit(s) from the following:

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•EES 3xxx
•EES 4xxx
•EES 5xxx

Additional Electives

Take 9 or more credit(s) from the following:

•AST 4110 - Observational Astronomy (3.0 cr)
•BIOL 3xxx
•BIOL 4xxx
•BIOL 5xxx
•CE 3xxx
•CE 4xxx
•CE 5xxx
•CHE 2111 - Material and Energy Balances (3.0 cr)
•CHE 3xxx
•CHE 4xxx
•CHE 5xxx
•CHEM 2541 - Organic Chemistry I (3.0 cr)
•CHEM 2542 - Organic Chemistry II (3.0 cr)
•CHEM 2543 - Organic Chemistry I Laboratory (1.0 cr)
•CHEM 2544 - Organic Chemistry II Laboratory (1.0 cr)
•CHEM 3xxx
•CHEM 4xxx
•CHEM 5xxx
•CS 3xxx
•CS 4xxx
•CS 5xxx
•EE 3xxx
•EE 4xxx
•EE 5xxx
•ES 3xxx
•ES 4xxx
•ES 5xxx
•EES 3xxx
•EES 4xxx
•EES 5xxx
•GEOG 3xxx
•GEOG 4xxx
•GEOG 5xxx
•GIS 3xxx
•GIS 4xxx
•GIS 5xxx
•IE 3xxx
•IE 4xxx
•IE 5xxx
•LIM 3xxx
•LIM 5xxx
•MATH 3xxx
•MATH 4xxx
•MATH 5xxx
•ME 3xxx
•ME 4xxx
•ME 5xxx
•PHYS 3xxx
•PHYS 4xxx
•PHYS 5xxx
•STAT 3xxx
•STAT 4xxx
•STAT 5xxx
•WRS 5101 - Water Policy (3.0 cr)

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Duluth Campus

Environmental Science Minor

D Earth & Environmental Sci

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 29 to 31

The environmental science minor enhances a student's understanding of the scope of environmental problems, the biochemical and physical processes of environmental degradation, the sciences of non-renewable and renewable resources, and economic and political issues surrounding environmental problems. The minor provides valuable background for many environmental careers and applications.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Introductory Earth Science (3 - 4 cr)

EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
or GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Chemistry I with lab (5 cr)

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Calculus I (5 cr)

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Core (10 - 11 cr)

Students majoring in Geological Sciences, cannot count EES 2110 towards minor.
EES 2010 - Surface Processes (4.0 cr)
Take 2 or more course(s) from the following:

- EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
- EES 3201 - Mineral Resources (3.0 cr)
- EES 3202 - Energy Resources (3.0 cr)
- EES 3203 - Environmental Hydrology (3.0 cr)
- EES 4102 - Environmental Assessment (3.0 cr)

Electives (6 cr)

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- EES 3xxx
- EES 4xxx
- EES 5xxx

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Duluth Campus

Geological Sciences B.A.

D Earth & Environmental Sci

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 61 to 64
- This program requires summer terms.
- Degree: Bachelor of Arts

Geological sciences is the scientific study of the origin, history, and structure of the Earth. The study of geology requires a broad base of knowledge in related sciences and mathematics.

The BA in geological sciences provides an appropriate educational background for work in areas related to environmental studies, land use planning, and other fields requiring sensitivity to Earth systems.

Honors Requirements: To attain departmental honors, students must undertake an independent research project and maintain a cumulative overall GPA of 3.00. The research can be part of a UROP, directed research, independent study, or an internship with a faculty member. Students must either make a brief oral presentation to the department summarizing their results and produce a research paper (minimum 10 pages) OR give an oral or poster presentation of their research results at a regional or national meeting (e.g. GSA, AGU, ILSG, or similar campus event).

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major.

Learning in Community (1 cr)

The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for

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UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3150 - Advanced Writing: Science (3.0 cr)

Geology Core (38 - 39 cr)
Introductory Earth Science (3 - 4 cr)
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
or GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
Core (15 cr)
EES 2010 - Surface Processes (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
EES 2120 - The Earth's Dynamic Interior (3.0 cr)
EES 2311 - Mineralogy (4.0 cr)
Advanced Core (14 cr)
EES 2312 - Petrology (4.0 cr)
EES 3420 - Sedimentology and Stratigraphy (4.0 cr)
EES 4450 - Structural Geology (4.0 cr)
Field Geology (6 cr)
EES 4500 - Field Geology (6.0 cr)
or EES 4600 - Digital capstone in applied geoscience I (3.0 cr)
EES 4610 - Digital capstone in applied geoscience II (3.0 cr)

Electives (6 cr)
Take 6 or more credit(s) from the following:
•EES 3xxx
•EES 4xxx
•EES 5xxx
•GIS 3xxx
•GIS 4xxx
•GIS 5xxx
•LIM 5xxx

Chemistry (10 cr)
Take one of the following course sequences:
General, Organic, and Biological Chemistry
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
CHEM 1114 - Introduction to General, Organic, and Biological Chemistry II (5.0 cr)
or **Chemistry I and II with labs**
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)

Mathematics (3-5 cr)
Take 1 or more course(s) totaling 3 or more credit(s) from the following:
•MATH 1250 - Precalculus Analysis [LE CAT2, LOGIC & QR] (4.0 cr)
•MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
•MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
•STAT 2411 - Statistical Methods [LE CAT, LOGIC & QR] (3.0 cr)

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Duluth Campus

Geological Sciences B.S.

D Earth & Environmental Sci

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 93 to 94
- This program requires summer terms.
- Degree: Bachelor of Science

The study of geology provides ways of understanding and appreciating dynamic earth processes, our physical environment, and our place in the long and complex history of the planet and solar system. It is by nature interdisciplinary and attracts students with broad interest in earth science, archaeology, astronomy, biology, chemistry, engineering, environmental science, applied mathematics, oceanography, limnology, and/or physics. The BS degree in geological sciences can lead to rewarding careers in industry, government, conservation, law, business, and academia.

Geology requires a solid base of knowledge in related sciences (chemistry and physics) and mathematics, as well as a solid core of geology courses. A summer course in field mapping is also required.

Honors requirements: To attain department honors, students must undertake an independent research project and maintain a cumulative overall GPA of 3.00. The research can be part of a UROP, directed research, independent study, or an internship with a faculty member. Students must either make a brief oral presentation to the department summarizing their results and produce a research paper (minimum 10 pages) OR give an oral or poster presentation of their research results at a regional or national meeting (e.g., GSA, AGU, ILSG, or similar campus event).

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

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Advanced Writing (3 cr)
WRIT 3150 - Advanced Writing: Science (3.0 cr)

Geology Core (42-43 cr)
Introductory Earth Science (3 - 4 cr)
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
or GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
Core (15 cr)
EES 2010 - Surface Processes (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
EES 2120 - The Earth's Dynamic Interior (3.0 cr)
EES 2311 - Mineralogy (4.0 cr)
Advanced Core (18 cr)
EES 2312 - Petrology (4.0 cr)
EES 3420 - Sedimentology and Stratigraphy (4.0 cr)
EES 4450 - Structural Geology (4.0 cr)
EES 4800 - Principles of Geophysics (4.0 cr)
Field Geology (6 cr)
EES 4500 - Field Geology (6.0 cr)
or EES 4600 - Digital capstone in applied geoscience I (3.0 cr)
EES 4610 - Digital capstone in applied geoscience II (3.0 cr)

Courses From Other Programs (30 cr)
Chemistry I and II with labs
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
Mathematics
Calculus I
MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Physics
Introduction to Physics I and II
PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
PHYS 1002 - Introduction to Physics II (5.0 cr)
or **General Physics I and II with labs**
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

Advanced Earth Science Electives (9 cr)
Take 9 or more credit(s) from the following:
•EES 3xxx
•EES 4xxx
•EES 5xxx

Additional Advanced Electives (9 cr)
Take 9 or more credit(s) from the following:
Take 0 - 2 course(s) from the following:
•EES 3xxx
•EES 4xxx
•EES 5xxx
•Take 1 - 3 course(s) from the following:
•AST 4110 - Observational Astronomy (3.0 cr)
•BIOL 3xxx
•BIOL 4xxx
•BIOL 5xxx
•CHEM 3xxx
•CHEM 4xxx

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- CHEM 5xxx
- CS 3xxx
- CS 4xxx
- CS 5xxx
- GEOG 3401 - Weather and Climate (3.0 cr)
- GEOG 4401 - Climate Science (3.0 cr)
- GEOG 4451 - The Geography of Soils (4.0 cr)
- GEOG 4446 - Water Processes and Management (3.0 cr)
- GIS 3xxx
- GIS 4xxx
- GIS 5xxx
- LIM 5xxx
- MATH 3xxx
- MATH 4xxx
- MATH 5xxx
- PHYS 3xxx
- PHYS 4xxx
- PHYS 5xxx
- STAT 3xxx
- STAT 4xxx
- STAT 5xxx
- WRS 5101 - Water Policy (3.0 cr)

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Duluth Campus

Geological Sciences Minor

D Earth & Environmental Sci

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 26 to 29

The geological sciences minor enhances the student's understanding of and familiarity with earth materials and processes and provides valuable background for many environmental careers and applications.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Introductory Earth Science (3-4 cr)

EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
or EES 1610 - Oceanography [LE CAT, NAT SCI, SUSTAIN] (3.0 cr)
or GEOG 1414 - The Physical Geography [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)

Core (15 cr)

EES 2010 - Surface Processes (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
EES 2120 - The Earth's Dynamic Interior (3.0 cr)
EES 2311 - Mineralogy (4.0 cr)

Chemistry (5 cr)

Take CHEM 1113 only or both CHEM 1153 and CHEM 1154.
CHEM 1113 - Introduction to General, Organic, and Biological Chemistry I [LE CAT, NAT SCI] (5.0 cr)
or CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Electives (3-5 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- EES 2312 - Petrology (4.0 cr)
- EES 3202 - Energy Resources (3.0 cr)
- EES 3420 - Sedimentology and Stratigraphy (4.0 cr)
- EES 4450 - Structural Geology (4.0 cr)
- EES 5250 - Hydrogeology (4.0 cr)

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Duluth Campus

Industrial Engineering B.S.I.E.

UMD Mechanical/Industrial Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 126 to 128
- Required credits within the major: 120 to 122
- Degree: Bachelor of Science in Industrial Engineering

The mission of the bachelor of science in industrial engineering program is to deliver a hands-on, laboratory-intensive undergraduate education that provides students with the tools and skills to excel in the profession as they pursue lifelong learning and make positive contributions to society. The program emphasizes integrated systems and offers unique opportunities for undergraduate research.

The educational objectives of the industrial engineering program are to produce graduates who:

1. Solve industrial engineering problems by applying contemporary engineering tools to propose and implement effective solutions.

2. Design, develop, implement, and improve integrated systems that include people, materials, information, equipment, and energy.

3. Contribute as informed, ethical, and responsible members of the engineering profession and society as a whole.

4. Continue lifelong professional development throughout their careers.

5. Collaborate and communicate effectively with others as members or leaders of engineering or multidisciplinary teams in international settings.

Industrial engineering integrates topics from manufacturing, management, service, and traditional design. Industrial engineers are proficient in the design, improvement, and management of complex systems of people, materials, equipment, and energy. They study and adapt product designs and the associated plant facilities to optimize production, while considering economic, technical, and human factors.

The curriculum rounds out the learning experience by providing skills in the mathematical and physical sciences, economics, composition, and humanities and social sciences.

The industrial engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

The industrial engineering program emphasizes the overall perspective of people and productivity in any type of system, including manufacturing, service, health care, transportation, communication, and agriculture.

Honors requirements: To graduate with department honors, a student must graduate with a 3.40 GPA, be an active member of Tau Beta Pi or a professional engineering society (ASME, ASSE, IIE, MSPE, SME or SWE), and be nominated by a department faculty member.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Applicants are admitted to the B.S.I.E. program on a space-available basis with priority determined by cumulative GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled

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including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.

2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

2. Students must remain in good academic standing. BSIE students placed on academic probation will also be removed from BSIE status and will not be readmitted to BSIE until they achieve good academic standing with the University.

Students must complete a minimum of 32 credits of math and science courses. The mechanical engineering curriculum uses the math and science required courses, listed below, to meet this requirement. Courses transferred from other institutions may transfer with fewer credits than the UMD equivalent(s). In this case, to reach the 32 credit minimum, additional coursework within the approved subjects of BIOL, CHEM, EES, MATH, PHYS, and STAT at the 1xxx - 4xxx level, can be applied to satisfy this credit difference.

Advanced Writing (3 cr)
WRIT 3130 is preferred
WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3180 - Honors: Advanced Writing (3.0 cr)

Chemistry, Mathematics and Physics (32 cr)
Students who transfer courses with fewer credits than the UMD equivalent(s) must complete an additional approved mathematics or science credits as noted above.
General Chemistry I with lab
CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
Calculus I and II
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Mathematics and Statistic
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
STAT 3411 - Engineering Statistics (3.0 cr)
Physics I course
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
Physics II course
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)

Engineering (26 - 28 cr)
Engineering Fundamentals
EE 2006 - Electrical Circuit Analysis (4.0 cr)
ENGR 1210 - Introduction to Engineering (2.0 cr)
ME 2226 - Dynamics (3.0 cr)
Writing
WRIT 1120 - College Writing [LE CAT, WRITING] (3.0 cr)

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Engineering
CE 2015 - Engineering Statics (3.0 cr)
CE 2016 - Engineering Mechanics of Materials (3.0 cr)
ENGR 1222 - Introduction to Solid Modeling (2.0 cr)
ME 2105 - Introduction to Material Science for Engineers (3.0 cr)
Computer Science
CS 1121 - Introduction to Programming in Visual BASIC.NET [LE CAT, LOGIC & QR] (3.0 cr)
or CS 1151 - Introduction to Programming in Python (3.0 cr)
or CS 1411 - Introduction to Programming in Matlab (4.0 cr)
or CS 1511 - Computer Science I [LE CAT] (5.0 cr)

B.S.I.E. Core and Engineering Courses (38 cr)
Required courses include fundamental material in civil engineering, electrical engineering, engineering management, engineering science, industrial engineering, and mechanical engineering. Concepts are delivered in lecture and reinforced in lab experiences.
Level I Core
IE 3122 - Materials Engineering Laboratory (2.0 cr)
IE 3125 - Engineering Economic Analysis [SOC SCI] (3.0 cr)
IE 3130 - Materials Processing Engineering (3.0 cr)
IE 3140 - Human Factors and Ergonomic Design (3.0 cr)
Level 2 Core
EMGT 4110 - Engineering Professionalism and Practice (2.0 cr)
IE 3115 - Operations Research (4.0 cr)
IE 3222 - Occupational Systems Laboratory (2.0 cr)
IE 4010 - Six Sigma Quality Control (3.0 cr)
IE 4020 - Lean Production Management (3.0 cr)
Level 3 Core
IE 4115 - Facility Planning and Simulation (4.0 cr)
IE 4222 - Systems Integration Laboratory (2.0 cr)
IE 4230 - Systems Integration (3.0 cr)
IE 4255 - Multidisciplinary Senior Design (4.0 cr)

Industrial Engineering Electives (12 cr)
Take 4 or more course(s) totaling 12 or more credit(s) from the following:
•CHE 2111 - Material and Energy Balances (3.0 cr)
•CHE 2211 - Materials and Energy Balances (4.0 cr)
•CS 1121 - Introduction to Programming in Visual BASIC.NET [LE CAT, LOGIC & QR] (3.0 cr)
•CS 1151 - Introduction to Programming in Python (3.0 cr)
•CS 1411 - Introduction to Programming in Matlab (4.0 cr)
•CS 1511 - Computer Science I [LE CAT] (5.0 cr)
•CS 1521 - Computer Science II (5.0 cr)
•EE 1315 - Digital Logic (4.0 cr)
•EE 2111 - Linear Systems and Signal Analysis (4.0 cr)
•EE 2212 - Electronics I (4.0 cr)
•EE 2325 - Microprocessor Systems (4.0 cr)
•EE 3151 - Control Systems (4.0 cr)
•IE 4196 - Cooperative Education I (1.0 cr)
•IE 4197 - Industrial Engineering Internship (1.0 cr)
•IE 4296 - Cooperative Education II (2.0 cr)
•IE 4297 - Industrial Engineering Internship (2.0 cr)
•IE 4491 - Independent Study (1.0 - 4.0 cr)
•IE 4495 - Special Topics: (Various Titles to be Assigned) (1.0 - 4.0 cr)
•IE 4993 - Industrial Engineering Seminar (1.0 cr)
•IE 5305 - Supply Chain Management (3.0 cr)
•IE 5325 - Advanced Engineering Economics (3.0 cr)
•IE 5335 - Engineered Products and Services (3.0 cr)
•IE 5345 - Life Cycle Assessment (3.0 cr)
•IE 5355 - Data-Driven Engineering: Using Data Analytics for Engineering Design and Decision Making (3.0 cr)
•IE 5365 - Machine Learning Applications in System Dynamics and Control (3.0 cr)
•IE 5991 - Independent Study in Industrial Engineering (1.0 - 4.0 cr)
•MATH 3298 - Calculus III (4.0 cr)
•MATH 3355 - Discrete Mathematics (4.0 cr)
•ME 2211 - Thermodynamics [SUSTAIN] (3.0 cr)
•ME 3010 - Fundamentals of Machining and Manufacturing (3.0 cr)
•ME 3140 - System Dynamics and Control (3.0 cr)
•ME 4050 - Fundamentals of Nuclear Engineering (3.0 cr)
•ME 4060 - Machine Vision and Image Based Robot Control (3.0 cr)

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•ME 4135 - Robotics and Controls (3.0 cr)
•ME 4145 - CAD/CAM (4.0 cr)
•ME 4175 - Machine Design (3.0 cr)
•ME 4365 - Global Sustainability Experience in Design/Manufacturing in Africa (3.0 cr)
•ME 4495 - Special Topics: (Various Titles to be Assigned) (1.0 - 4.0 cr)
•ME 5101 - Design and Manufacturing of Composite Materials (3.0 cr)
•ME 5120 - Advanced Dynamics and Control (3.0 cr)
•ME 5315 - Nondestructive Evaluation of Engineering Materials (3.0 cr)
•ME 5325 - Sustainable Energy System (3.0 cr)
•ME 5365 - Introduction to Medical Device Development (3.0 cr)
•MGTS 4472 - Entrepreneurship (3.0 cr)
•STAT 5411 - Analysis of Variance (3.0 cr)
•STAT 4511 - Regression Analysis (3.0 cr)
•ME 3111 - Fluid Mechanics (3.0 cr)
or CHE 3111 - Fluid Mechanics (3.0 cr)

Courses From Other Programs (9 cr)

These courses help engineers develop a foundation of economics and communication skills. Students entering the program as transfer students must complete each of these courses at UMD if the direct equivalent for each course did not transfer in from another institution.

Business

ACCT 2001 - Principles of Financial Accounting (3.0 cr)
or BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
or MGTS 1101 - Introduction to Business [LE CAT8] (3.0 cr)
or MKTG 3701 - Principles of Marketing (3.0 cr)

Communication

COMM 1112 - Public Speaking [LE CAT, COMM & LAN] (3.0 cr)
or COMM 1222 - Interpersonal Communication [LE CAT, LECD C, COMM & LAN] (3.0 cr)

Economics

ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

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Duluth Campus

Materials Science and Engineering Minor

Chemical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 45 to 46

Materials Science and Engineering (MSE) is a field that studies the structure, property, processing, and application of materials. The MSE minor provides students with the fundamentals of materials science and engineering and introduces them to a material-focused approach to problem solving. Completion of the MSE minor requires a minimum of 45 credit hours, which include 36 hours of required courses and at least 9 hours of elective courses

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

This program presupposes 1 year of high school chemistry and a Math ACT score of 27 or higher.

Materials Science and Engineering Core (36 - 37 cr)

Chemistry I with lab

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)
or CHEM 1173 - General Chemistry I for Majors [NAT SCI] (4.0 cr)
CHEM 1174 - General Chemistry I Lab for Majors [NAT SCI] (1.0 cr)

Chemistry II with lab

CHEM 1155 - General Chemistry II (4.0 cr)
CHEM 1156 - General Chemistry Lab II (1.0 cr)
or CHEM 1175 - General Chemistry II for Majors (4.0 cr)
CHEM 1176 - General Chemistry II Lab for Majors (1.0 cr)

Calculus I

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Physics I Lecture

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)

Physics I Lab

PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II Lecture

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)

Physics II Lab

PHYS 2016 - General Physics Lab II (1.0 cr)

Engineering Materials

CHE 3231 - Properties of Engineering Materials (3.0 cr)
or ME 2105 - Introduction to Material Science for Engineers (3.0 cr)

Thermodynamics

CHE 2121 - Chemical Engineering Thermodynamics (3.0 cr)
or CHEM 4373 - Physical Biochemistry: Statistical Bio-Thermodynamics (3.0 cr)
or CHEM 4641 - Physical Chemistry I (3.0 cr)
or ME 2211 - Thermodynamics [SUSTAIN] (3.0 cr)
or PHYS 4031 - Thermal and Statistical Physics (4.0 cr)

Electives (9 cr)

A maximum of two courses with the same designator.

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Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- CE 2015 - Engineering Statics (3.0 cr)
- CE 2016 - Engineering Mechanics of Materials (3.0 cr)
- CE 3027 - Infrastructure Materials (4.0 cr)
- CE 4320 - Advanced Pavement Materials, Design and Construction (3.0 cr)
- CE 5027 - Advanced Concrete Materials and Repair (3.0 cr)
- CE 5320 - Advanced Pavement Materials, Design and Construction (3.0 cr)
- CHE 4141 - Material and Minerals Processing (3.0 cr)
- CHE 4231 - Solar Energy and Photovoltaics (3.0 cr)
- CHE 5131 - Polymer Engineering (3.0 cr)
- CHE 5321 - Theory and Practice of Scanning Electron Microscopy & X-ray Microanalysis (3.0 cr)
- CHEM 5650 - Computational Chemistry (3.0 cr)
- CHEM 5714 - Applications of Spectroscopy (4.0 cr)
- EE 4611 - Introduction to Solid-State Semiconductors (3.0 cr)
- EE 5621 - Microelectronics Technology (3.0 cr)
- IE 3122 - Materials Engineering Laboratory (2.0 cr)
- IE 3130 - Materials Processing Engineering (3.0 cr)
- ME 5101 - Design and Manufacturing of Composite Materials (3.0 cr)
- ME 5220 - Advanced Mechanics of Materials (3.0 cr)
- ME 5315 - Nondestructive Evaluation of Engineering Materials (3.0 cr)
- ME 5345 - Smart Materials and Structures (3.0 cr)
- PHYS 5041 - Optics (3.0 cr)
- PHYS 5531 - Introduction to Solid State Physics (3.0 cr)
- CHE 4711 - Biomedical Engineering (3.0 cr)
  or CHE 5711 - Biomedical Engineering (3.0 cr)
- CHEM 4510 - Polymer Chemistry (3.0 cr)
  or CHEM 5510 - Polymer Chemistry (3.0 cr)

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Duluth Campus

Mathematics B.S.

Mathematics & Statistics

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 57
- Degree: Bachelor of Science

The program in mathematics develops competence in mathematical techniques and sharpens mathematical insight. Mathematics is fundamental to solving problems in physics, chemistry, biology, medicine, business, engineering, and technology. The mathematics major prepares students for careers in business, industry, and government and for further graduate studies.

Note: the BS in statistics and actuarial science is listed separately.

Honors Requirements: To graduate with departmental honors, a student must complete the program with an overall and department GPA of 3.50, satisfactorily complete a research project under the guidance of a department faculty member, and convey research results in a written report and in a department colloquium.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major. Note: the statistics major is allowed, the minor is not allowed.

Double Majors ONLY:
A student pursuing a second major in Statistics and Actuarial Science can count STAT 3612 as a major elective, but no other STAT course required for the Statistics and Actuarial Science major can be counted as a major elective.

Advanced Writing (3 cr)

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Advanced Writing - WRIT 31xx (3.0 cr)

Calculus (10 cr)

Calculus I

Take one of the following Calculus I courses:

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)

or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Mathematics Core (23 cr)

MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)
MATH 3355 - Discrete Mathematics (4.0 cr)
MATH 4201 - Elementary Real Analysis (4.0 cr)
MATH 4326 - Linear Algebra (3.0 cr)
STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Mathematics Undergraduate Colloquium (1 cr)

Students must register for this course during their last semester before graduation.
MATH 3941 - Undergraduate Colloquium (1.0 cr)

Computer Science (5 cr)

CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)

Mathematics and Statistics Electives (15 cr)

Each course must be at least 3 credits.
Core courses cannot count as electives.
MATH electives must be at least 3100.
MATH 3326 and STAT 3411 cannot count as major electives.

Group 1

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- MATH 3xxx
- MATH 4xxx
- MATH 5xxx
- STAT 3xxx
- STAT 4xxx
- STAT 5xxx

Group 2

Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- MATH 4xxx
- MATH 5xxx

Group 3

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- MATH 4xxx
- MATH 5xxx
- STAT 4xxx
- STAT 5xxx

Program Areas of Emphasis

Mathematics includes a wide variety of areas in which students can specialize: traditional mathematics (preparation for Graduate School), applied analysis, computational mathematics, discrete mathematics, and mathematics education. Although no area is required for the MATH major, students are encouraged to work with their advisors to develop a coherent major plan. See the Department of Mathematics and Statistics Web page: http://www.d.umn.edu/math for descriptions of elective course groups.

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Duluth Campus

Mathematics Minor

Mathematics & Statistics

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 23

The minor in mathematics is based on the completion of the traditional core of calculus, differential equations, and elementary linear algebra commonly required of undergraduate physical science, engineering, and mathematics degrees. Additional, more advanced, elective classes are required, as well. The minor in mathematics certifies a student's quantitative, problem-solving, and critical thinking skills.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

1. The Mathematics minor is not allowed with a Statistics major.

2. Students may not receive both a minor in Mathematics and a minor in Statistics.

Core Courses (14 cr)

Calculus I

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Calculus II

MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Core Course

MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Electives (9 cr)

Each course must be a minimum of 3 credits. MATH 3326 is not allowed in electives. STAT 3411 and STAT 3611 may be taken but only one can count.

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- MATH 3xxx
- MATH 4xxx
- MATH 5xxx
- STAT 3xxx
- STAT 4xxx
- STAT 5xxx

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Duluth Campus

Mechanical Engineering B.S.M.E.

UMD Mechanical/Industrial Engineering

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 130 to 131
- Required credits within the major: 115 to 116
- Degree: Bachelor of Science in Mechanical Engineering

The mission of the bachelor of science in mechanical engineering is to deliver a laboratory-intensive, undergraduate mechanical engineering education that provides students with the tools and skills to excel in the engineering profession, as they pursue lifelong learning and make positive contributions to society. The student learning experience offers unique opportunities for study abroad, undergraduate research, and electives outside of mechanical engineering to develop an enhanced global perspective.

The educational objectives of the mechanical engineering program are to produce graduates who are able to:

1. Solve mechanical engineering problems by applying contemporary engineering tools to propose and implement effective solutions.

2. Design, develop, implement, and improve thermal and mechanical systems.

3. Contribute as informed, ethical, and responsible members of the engineering profession and society as a whole.

4. Continue lifelong professional development throughout their career.

5. Collaborate and communicate effectively with others as a member or leader of an engineering or multidisciplinary team in an international setting.

The BSME program integrates topics from chemistry, physics, advanced mathematics and statistics, and core engineering science to prepare graduates to work professionally in both thermal and mechanical systems, from design, development, manufacture, and use of products involving mechanical and thermal elements.

The program emphasizes the production engineering approach to mechanical and thermal systems design and development. Upper division courses provide students with a strong understanding of mechanical and thermal systems, and the skills to design, develop, and implement these systems.

The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET. http://www.abet.org

Mechanical engineering graduates are qualified for employment in a wide variety of industries including design, manufacturing, materials, aerospace, transportation, natural resources, and energy. Graduates may pursue assignments in design, development, manufacturing, operations, project engineering, or sales, and frequently move into engineering management. They are also well-qualified to continue with graduate education.

Students in the BSME program have the opportunity to put their design and entrepreneurial skills to use in ASME design competitions, projects sponsored by regional companies, and research projects in the Undergraduate Research Opportunities Program.

Honors requirements: To graduate with department honors, a student must have a 3.40 GPA, be an active member of Tau Beta Pi or a professional engineering society (ASME, ASSE, IIE, MSPE, SME or SWE), and be nominated by a department faculty member.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Freshman and transfer students students are usually admitted to pre-major status before admission to this major

Admission is competitive and applicants are admitted on a space-available basis, with priority determined by cumulative GPA.

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

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General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is not required for this major.

2. Students must remain in good academic standing. BSME students placed on academic probation will also be removed from BSME status and will not be readmitted to BSME until they achieve good academic standing with the University.

3. Students must complete a minimum of 32 credits of math and science courses. The mechanical engineering curriculum uses the math and science required courses, listed below, to meet this requirement. Courses transferred from other institutions may transfer with fewer credits than the UMD equivalent(s). In this case, to reach the 32 credit minimum, additional coursework within the approved subjects of BIOL, CHEM, EES, MATH, PHYS, and STAT at the 1xxx - 4xxx level, can be applied to satisfy this credit difference.

Advanced Writing (3 cr)

WRIT 3130 is preferred

WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)
or WRIT 3180 - Honors: Advanced Writing (3.0 cr)

Mathematics and Science Core (36 cr)

Students who transfer courses with fewer credits than the UMD equivalent(s) must complete an additional approved math or science credits as noted above.

General Chemistry I with lab

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Mathematics and Statistics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)
STAT 3411 - Engineering Statistics (3.0 cr)

Physics I with lab

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II with lab

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

BSME Core (60 cr)

Courses include fundamental material in engineering management, engineering science, industrial engineering, and mechanical engineering. Concepts are delivered in lecture and reinforced in lab experiences.

CE 2015 - Engineering Statics (3.0 cr)

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CE 2016 - Engineering Mechanics of Materials (3.0 cr)
EE 2006 - Electrical Circuit Analysis (4.0 cr)
EMGT 4110 - Engineering Professionalism and Practice (2.0 cr)
ENGR 1210 - Introduction to Engineering (2.0 cr)
ENGR 1222 - Introduction to Solid Modeling (2.0 cr)
IE 3122 - Materials Engineering Laboratory (2.0 cr)
IE 3125 - Engineering Economic Analysis [SOC SCI] (3.0 cr)
IE 3130 - Materials Processing Engineering (3.0 cr)
ME 2105 - Introduction to Material Science for Engineers (3.0 cr)
ME 2211 - Thermodynamics [SUSTAIN] (3.0 cr)
ME 2226 - Dynamics (3.0 cr)
ME 3140 - System Dynamics and Control (3.0 cr)
ME 3222 - Controls and Kinematics Laboratory (2.0 cr)
ME 3230 - Kinematics and Mechatronics (3.0 cr)
ME 4112 - Heat and Mass Transfer (3.0 cr)
ME 4122 - Heat Transfer, Thermodynamics and Fluid Mechanics Laboratory (2.0 cr)
ME 4145 - CAD/CAM (4.0 cr)
ME 4175 - Machine Design (3.0 cr)
ME 4255 - Multidisciplinary Senior Design (4.0 cr)
ME 3111 - Fluid Mechanics (3.0 cr)
or CHE 3111 - Fluid Mechanics (3.0 cr)

Mechanical Engineering Technical Electives (9 cr)

Take 3 or more course(s) totaling 9 or more credit(s) from the following:

•CHE 4301 - Chemical Reaction Engineering (3.0 cr)
•EE 2111 - Linear Systems and Signal Analysis (4.0 cr)
•EE 3445 - Electromagnetic Fields (3.0 cr)
•EE 4501 - Power Systems (4.0 cr)
•EE 4611 - Introduction to Solid-State Semiconductors (3.0 cr)
•IE 3115 - Operations Research (4.0 cr)
•IE 3140 - Human Factors and Ergonomic Design (3.0 cr)
•IE 4010 - Six Sigma Quality Control (3.0 cr)
•IE 4020 - Lean Production Management (3.0 cr)
•IE 4230 - Systems Integration (3.0 cr)
•IE 4495 - Special Topics: (Various Titles to be Assigned) (1.0 - 4.0 cr)
•IE 4993 - Industrial Engineering Seminar (1.0 cr)
•IE 5305 - Supply Chain Management (3.0 cr)
•IE 5325 - Advanced Engineering Economics (3.0 cr)
•IE 5345 - Life Cycle Assessment (3.0 cr)
•IE 5355 - Data-Driven Engineering: Using Data Analytics for Engineering Design and Decision Making (3.0 cr)
•IE 5365 - Machine Learning Applications in System Dynamics and Control (3.0 cr)
•ME 3010 - Fundamentals of Machining and Manufacturing (3.0 cr)
•ME 4050 - Fundamentals of Nuclear Engineering (3.0 cr)
•ME 4060 - Machine Vision and Image Based Robot Control (3.0 cr)
•ME 4135 - Robotics and Controls (3.0 cr)
•ME 4196 - Cooperative Education I (1.0 cr)
•ME 4197 - Mechanical Engineering Internship (1.0 cr)
•ME 4296 - Cooperative Education II (2.0 cr)
•ME 4297 - Mechanical Engineering Internship (2.0 cr)
•ME 4365 - Global Sustainability Experience in Design/Manufacturing in Africa (3.0 cr)
•ME 4375 - Pipeline Engineering (3.0 cr)
•ME 4491 - Independent Study in Mechanical Engineering (1.0 - 4.0 cr)
•ME 4495 - Special Topics: (Various Titles to be Assigned) (1.0 - 4.0 cr)
•ME 5050 - Fundamentals of Nuclear Engineering (3.0 cr)
•ME 5060 - Machine Vision and Image Based Robot Control (3.0 cr)
•ME 5101 - Design and Manufacturing of Composite Materials (3.0 cr)
•ME 5110 - Analytic Techniques in Mechanical Engineering (3.0 cr)
•ME 5120 - Advanced Dynamics and Control (3.0 cr)
•ME 5122 - Heating, Ventilation, Air Conditioning and Refrigeration Fundamentals (3.0 cr)
•ME 5210 - Advanced Thermal Fluid Sciences (3.0 cr)
•ME 5220 - Advanced Mechanics of Materials (3.0 cr)
•ME 5305 - Computational Fluid Dynamics (3.0 cr)
•ME 5315 - Nondestructive Evaluation of Engineering Materials (3.0 cr)
•ME 5325 - Sustainable Energy System (3.0 cr)
•ME 5335 - Introduction to Finite Element Analysis (3.0 cr)
•ME 5345 - Smart Materials and Structures (3.0 cr)

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•ME 5355 - Gas Turbines (3.0 cr)
•ME 5365 - Introduction to Medical Device Development (3.0 cr)
•ME 5991 - Independent Study in Mechanical Engineering (1.0 - 4.0 cr)
•MGTS 4472 - Entrepreneurship (3.0 cr)
•PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
•PHYS 4021 - Quantum Physics II (4.0 cr)
•PHYS 4031 - Thermal and Statistical Physics (4.0 cr)
•TH 3375 - Mechanical Design for Stage (3.0 cr)

Courses From Other Programs (7 - 8 cr)

These courses help engineers develop a foundation of computer, and economics skills.

Computer Science

CS 1411 - Introduction to Programming in Matlab (4.0 cr)
or CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)

Economics

ECON 1022 - Principles of Economics: Macro [LE CAT, SOC SCI] (3.0 cr)
or ECON 1023 - Principles of Economics: Micro [LE CAT, SOC SCI] (3.0 cr)

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Duluth Campus

Natural History Minor

D Earth & Environmental Sci, Biology

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 34

The natural history minor enhances student understanding of the ecology and geology of the natural world. It places particular emphasis on courses with field labs. The minor program covers a wide range of topics in earth's history, geomorphology, ecology, ornithology, entomology, ichthyology, mammalogy, animal behavior, and field interpretation for education, as well as other topics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Core (22 cr)

Biology

BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
BIOL 2801 - General Ecology (3.0 cr)

Earth Science

EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)

Senior Seminar

BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)

Electives (12 cr)

Take 12 or more credit(s) from the following:

Biology

Take 1 or more course(s) from the following:

- BIOL 3601 - Plant Diversity (3.0 cr)
- BIOL 3603 - Plant Taxonomy (3.0 cr)
- BIOL 3701 - Animal Diversity (4.0 cr)
- BIOL 3760 - Marine Biology (3.0 cr)
- BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
- BIOL 3830 - Aquatic Food Webs (3.0 cr)
- BIOL 3835 - Freshwater Ecology (3.0 cr)
- BIOL 4731 - Entomology (3.0 cr)
- BIOL 4740 - Geobiology (3.0 cr)
- BIOL 4761 - Ichthyology (3.0 cr)
- BIOL 4763 - Ornithology (3.0 cr)
- BIOL 4764 - Mammalogy (3.0 cr)
- BIOL 4804 - Methods in Forest Ecology (3.0 cr)
- BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
- BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
- BIOL 4850 - Food and Humans (3.0 cr)
- BIOL 4861 - Lake Ecology (3.0 cr)
- BIOL 4863 - Ecosystems Ecology and Biogeochemistry (3.0 cr)
- BIOL 4891 - Animal Behavior (3.0 cr)
- BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)
- BIOL 5801 - Microbial Ecology (2.0 cr)
- BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
- BIOL 5833 - Stream Ecology (3.0 cr)
- BIOL 5861 - Lake Ecology (3.0 cr)
- BIOL 5865 - Conservation Biology (2.0 cr)
- BIOL 5870 - Wetland Ecology (3.0 cr)
- **Earth & Environmental Science**

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Take 1 or more course(s) from the following:
- EES 2010 - Surface Processes (4.0 cr)
- EES 3301 - Meteorology and Climatology for the Earth Sciences (3.0 cr)
- EES 4220 - Advances in Paleoclimatology (3.0 cr)
- EES 4500 - Field Geology (6.0 cr)
- EES 4740 - Geobiology (3.0 cr)
- EES 5103 - Geological Paleolimnology (3.0 cr)
- EES 5210 - Glacial and Quaternary Geology (4.0 cr)
- GEOG 3401 - Weather and Climate (3.0 cr)

- **Additional Elective Options**

Take 0 or more course(s) from the following:
- ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
- ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
- FST 3236 - Icelandic Geology & the New Society (3.0 cr)

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Duluth Campus

Physics B.A.

UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 55 to 82
- Degree: Bachelor of Arts

The bachelor of arts degree in physics is a liberal arts degree that allows considerable freedom in the planning of upper level courses and can easily be combined with other majors and interests. The physics courses emphasize conceptual foundations, problem-solving skills, and experimental techniques.

Honors requirements: To graduate with honors, students must complete and present a research project, and are suggested to maintain a GPA above 3.50 overall and in the major. They are also expected to attend department colloquia. Interested students should contact the physics honors program coordinator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

For students not choosing to complete an optional subplan
Required credits to graduate with this degree: 120
Required credits within the major: 55

1. A second field of study (e.g. minor, major, degree) is required for this major.

2. A subplan is not required.
   a. Students interested in broadening analytical thinking through computer science may consider the Computational Physics subplan (see SCSE Advising to declare this subplan).
   b. Students interested in develops skills in analytical thinking, and data analysis are encouraged to add a Business Administration

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minor (see LSBE Advising to declare this minor).
c. Student who do not chose a subplan are required a second field of study (either a minor or another major).

3. Students interested in teaching 9-12 physics may enroll concurrently in secondary licensure requirements in the Department of Education and apply for admission to the Secondary Teacher Education Program.

4. Taking the "Honors" General Physics I course and General Physics II is recommended but not required for physics majors.

Learning In Community (1 cr)
The Learning in Community requirement will be waived for transfer students with at least 30 credits taken post high school and for UMD students who started in a UMD program where this was not required. First-year students who have completed 30 PSEO credits may request a waiver to the students primary college.
UST 1000 - Learning in Community (1.0 - 2.0 cr)
or EHS 1000 - Into the World [GLOBAL PER] (3.0 cr)
or ES 1000 - Global Cultural Perspectives on Environmental Sustainability [GLOBAL PER] (3.0 cr)
or LING 1000 - Language and Culture in the U.S. What does it Mean to Speak American [CDIVERSITY] (3.0 cr)
or PSY 1100 - Living Your Best Life: Applying Positive Psychology [CDIVERSITY] (3.0 cr)

Advanced Writing (3 cr)
WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Physics (22 cr)
Topics in Physics
PHYS 1021 - Exploring Current Topics in Physics (1.0 cr)
General Physics I
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
General Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
General Physics II
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
General Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)
Physics
PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
PHYS 2022 - Classical Physics (4.0 cr)
PHYS 2033 - Classical and Quantum Physics Lab (2.0 cr)
Physics Seminar
PHYS 4090 - Undergraduate Physics Seminar (1.0 cr)

Electives (11 cr)
Students who add the Computational Physics sub plan need to complete PHYS 4052 as one of the electives.
Take 11 or more credit(s) from the following:
- LIM 5101 - Physical Limnology (3.0 cr)
- AST 3xxx
- AST 4xxx
- PHYS 3xxx
- PHYS 4xxx
- PHYS 5xxx

Mathematics (18 cr)
Calculus I
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Advanced Mathematics
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)

Program Sub-plans

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A sub-plan is not required for this program.

Computational Physics

Required credits to graduate with this degree: 120
Required credits within the major: 77

This sub-plan is ideal for students who seek a strong grounding in physics and the computational techniques used in physics research. Computational physics connects physics, computer science, and applied mathematics to provide scientific solution to realistic and other complex problems. Students who will find this sub-plan valuable are interested in moving directly into a quantitative career after graduation and students double majoring with another science or engineering major and considering graduate school.

Computational Physics (22 cr)
Computer Science I
CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
Computer Science II
CS 1521 - Computer Science II (5.0 cr)
Additional Computer Science
CS 2511 - Software Analysis and Design (4.0 cr)
CS 2531 - Discrete Structures for Computer Science (4.0 cr)
or MATH 3355 - Discrete Mathematics (4.0 cr)
Mathematics
MATH 4810 - Applied Mathematics: Numerical Methods (4.0 cr)

Business Administration

Required credits to graduate with this degree: 120
Required credits within the major: 82

By adding a subplan in Business Administration, students can apply practical computing, data analysis, and logical thinking learned through physics to enhance their foundation of business knowledge.

An overall UM GPA of 2.60 is required for automatic admission to this specialty, along with completion of the Pre-Sub-plan core.

Pre Sub-Plan Core (12 cr)
ACCT 2005 - Survey of Accounting [LE CAT] (3.0 cr)
ECON 1003 - Economics and Society [LE CAT, SOC SCI] (3.0 cr)
ECON 2030 - Applied Statistics for Business and Economics [LOGIC & QR] (3.0 cr)
MIS 2201 - Information Technology in Business (3.0 cr)
Upper Division Requirements (15 cr)
FIN 3601 - Corporate Finance (3.0 cr)
MGTS 3301 - Production and Operations Management (3.0 cr)
MGTS 3401 - Organizational Behavior and Management (3.0 cr)
MGTS 3801 - Human Resource Management (3.0 cr)
MKTG 3701 - Principles of Marketing (3.0 cr)

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Duluth Campus

Physics B.S.

UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 70 to 72
- Degree: Bachelor of Science

The bachelor of science degree in physics is primarily for students planning to work toward an advanced degree in physics or a related area. The physics courses emphasize conceptual foundations, problem-solving skills, and experimental techniques.

Students are encouraged to participate in research. The department also offers courses required for other science and engineering programs.

Honors requirements: To graduate with honors, students must complete and present a research project, and are suggested to maintain a GPA above 3.50 overall and in the major. They are also expected to attend department colloquia. Interested students should contact the physics honors program coordinator.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

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2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A second field of study (e.g. minor, major, degree) is required for this major. A Physics BA cannot be declared.

2. The first math course is determined by ACT math score. The sample plan presupposes placement into MATH 1296.

3. Elective courses numbered above 3xxx may be offered in alternate years only. Some courses suggested in the sample plans in the junior and senior years may need to be switched to match the course offerings.

4. Students interested in teaching 9-12 physics may enroll concurrently in the Department of Education and apply for admission to the

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Secondary Teacher Education Program.

5. Taking the Honors General Physics I (PHYS 2017) and Physics II (PHYS 2018) courses is recommended but not required.

6. Recommended courses from other programs include General Chemistry I (CHEM 1153) and General Chemistry Lab I (CHEM 1154).

Advanced Writing (3 cr)
WRIT 3130 - Advanced Writing: Engineering (3.0 cr)
or WRIT 3150 - Advanced Writing: Science (3.0 cr)

Physics (40 cr)
General Physics I
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
General Physics I lab
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)
General Physics II
PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
General Physics II lab
PHYS 2016 - General Physics Lab II (1.0 cr)
Current Topics in Physics
PHYS 1021 - Exploring Current Topics in Physics (1.0 cr)
Classical and Modern Physics
PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
PHYS 2022 - Classical Physics (4.0 cr)
PHYS 2033 - Classical and Quantum Physics Lab (2.0 cr)
Advanced Physics
PHYS 3033 - Analytical Methods in Physics (3.0 cr)
PHYS 3061 - Instrumentation (3.0 cr)
PHYS 4001 - Classical Mechanics (4.0 cr)
PHYS 4011 - Electromagnetic Theory (4.0 cr)
PHYS 4021 - Quantum Physics II (4.0 cr)
Physics Seminar
PHYS 4090 - Undergraduate Physics Seminar (1.0 cr)

Mathematics and Computer Science (21 - 23 cr)
Mathematics
Calculus I
MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)
Advanced Mathematics
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)
Computer Science
CS 1151 - Introduction to Programming in Python (3.0 cr)
or CS 1411 - Introduction to Programming in Matlab (4.0 cr)
or CS 1511 - Computer Science I [LE CAT] (5.0 cr)

Electives (6 cr)
Take 6 or more credit(s) from the following:
- AST 3xxx
- AST 4xxx
- PHYS 3xxx
- PHYS 4xxx
- PHYS 5xxx
- LIM 5101 - Physical Limnology (3.0 cr)

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Duluth Campus

Physics Minor

UMD-Physics & Astronomy

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 34

The physics minor provides an introduction to classical and quantum physics.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Physics Minor (34 cr)

Mathematics

MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Physics I with lab

PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Physics II with lab

PHYS 2015 - General Physics II (4.0 cr)
or PHYS 2018 - Honors General Physics II (4.0 cr)
PHYS 2016 - General Physics Lab II (1.0 cr)

General Physics

PHYS 1021 - Exploring Current Topics in Physics (1.0 cr)
PHYS 2021 - Relativity and Quantum Physics (4.0 cr)
PHYS 2022 - Classical Physics (4.0 cr)
PHYS 2033 - Classical and Quantum Physics Lab (2.0 cr)

PHYS 3xxx-5xxx Electives

Take 3 or more credit(s) from the following:

- PHYS 3xxx
- PHYS 4xxx
- PHYS 5xxx
- LIM 5101 - Physical Limnology (3.0 cr)

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Duluth Campus

Quality Science Minor

Chemical Engineering

Swenson College of Science and Engineering

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 28 to 29

The pharmaceutical, medical device, biotech, and consumer goods industries work to promote and protect patient health around the world. At the heart of our ability to affect patient lives is the necessity to develop and manufacture products that consistently meet the intended quality in a way that is supported by scientific research and data. This confidence in product safety and efficacy is grounded in quality science.

The Quality Science minor is designed to accelerate the readiness of students entering the life science industries by arming them with critical-thinking skills gained through immersion in science-based quality education and real-world experiences of the 21st century.

The holistic approach of the Quality Science minor combines the science, regulatory, and business acumen needed to:
-Mobilize enterprise-wide quality effectiveness grounded in science, data, stakeholder awareness, and regulatory intelligence.
-Proactively anticipate and manage risk, optimize value, and provide objectivity.
-Understand the business in which employees operate, and how to positively affect the outcome.
-Establish innovative systems to increase the right-first-time rate of cross-functional stakeholders, thus bolstering consumer and regulatory confidence in product safety, efficacy, and intended use.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Chemistry I with lab (5 cr)

CHEM 1153 - General Chemistry I [LE CAT, NAT SCI] (4.0 cr)
CHEM 1154 - General Chemistry Lab I [LE CAT, NAT SCI] (1.0 cr)

Calculus I (5 cr)

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

Global Quality Framework (3 cr)

CHE 2500 - Global Quality Regulatory Framework (3.0 cr)

Physics I (5 cr)

PHYS 1001 - Introduction to Physics I [LE CAT, NAT SCI] (5.0 cr)
PHYS 2013 - General Physics I [LE CAT, NAT SCI] (4.0 cr)
or PHYS 2017 - Honors: General Physics I [NAT SCI] (4.0 cr)
PHYS 2014 - General Physics Lab I [NAT SCI] (1.0 cr)

Business (2 -3 cr)

BLAW 2001 - The Legal Environment [LE CAT8, HUMANITIES] (3.0 cr)
or BUS 2100 - Fundamentals of Accounting (2.0 cr)

Chemical Engineering (5 cr)

CHE 3501 - Product Development and Validation (3.0 cr)
CHE 3502 - Risk and Failure Analysis in Life Science Industries (2.0 cr)

Elective (3 cr)

Take 1 or more course(s) totaling 3 or more credit(s) from the following:

- BIOL 2571 - Microbiology for Human Health (4.0 cr)
- BIOL 3502 - General Microbiology (4.0 cr)
- CHE 4601 - Biochemical Engineering I (3.0 cr)
- CHE 4701 - Biochemical Engineering II (3.0 cr)

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- CHE 4711 - Biomedical Engineering (3.0 cr)
- CHE 5711 - Biomedical Engineering (3.0 cr)
- CHEM 2212 - Environmental Chemistry [NAT SCI, SUSTAIN] (4.0 cr)
- EE 5745 - Medical Imaging (3.0 cr)
- ME 5365 - Introduction to Medical Device Development (3.0 cr)
- **Quantitative Analysis**
  - CHEM 2222 - Quantitative Analysis (3.0 cr)
  - CHEM 2223 - Quantitative Analysis Laboratory (1.0 cr)
- **Biochemistry**
  - CHEM 3322 - Biochemistry (3.0 cr)
  - CHEM 3324 - Biochemistry Laboratory (1.0 cr)

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Duluth Campus

Resilient Precast Concrete Certificate

UMD-Civil Engineering, Dept of

Swenson College of Science and Engineering

- Program Type: Undergraduate credit certificate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 16
- Degree: Resilient Precast Concrete Certificate

The focus of the Resilient Precast Engineering Certificate (RPEC) program is two-pronged. Participants will attain the skill and understanding required to design precast concrete structures, and in the process, learn how to apply resiliency-based values to their decision-making. Throughout the process, the professional and communication skills of the participants will also be honed. Participants who have completed the five-course curriculum will graduate with a deeper knowledge related to the engineering, resiliency, and business aspects of precast concrete.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

Students must complete 45 credits before admission to the program.

A GPA above 2.0 is preferred for the following:

- 2.50 already admitted to the degree-granting college
- 2.50 transferring from another University of Minnesota college
- 2.50 transferring from outside the University

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

Required prerequisites
Certificate Prerequisite (3 cr)
CE 3115 - Structural Analysis (3.0 cr)

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

Requirements (13 cr)
CE 4126 - Design of Concrete Structures (3.0 cr)

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CE 4100 - Applications of Management in Resilient Precast Concrete (1.0 cr)
BUS 2400 - Fundamentals of Organizational Management (2.0 cr)
CE 4128 - Prestressed Concrete Structures (3.0 cr)
or CE 5128 - Prestressed Concrete Structures (3.0 cr)
Senior Design
CE 4255 - Senior Design (4.0 cr)

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Duluth Campus

Statistics and Actuarial Science B.S.

Mathematics & Statistics

Swenson College of Science and Engineering

- Program Type: Baccalaureate
- Requirements for this program are current for Fall 2022
- Required credits to graduate with this degree: 120
- Required credits within the major: 56 to 57
- Degree: Bachelor of Science

The science of statistics is concerned with generating and analyzing data. Actuarial science applies statistical methods to assess risk in the insurance and financial industries. The statistics and actuarial science major prepares students for careers in a wide variety of fields, from banking and government to health care. Advisors have information on the national actuarial examinations.

Honors Requirements: To graduate with department honors, a student must complete the program with an overall and department GPA of 3.50, satisfactorily complete a research project under the guidance of a faculty member, and convey research results in a public presentation.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Admission Requirements

For information about University of Minnesota admission requirements, visit the Office of Admissions website.

General Requirements

The Board of Regents, on recommendation of the faculty, grants degrees from the University of Minnesota. Requirements for an undergraduate degree from University of Minnesota Duluth include the following:

1. Students must meet all course and credit requirements of the departments and colleges or schools in which they are enrolled including an advanced writing course. Students seeking two degrees must fulfill the requirements of both degrees. However, two degrees cannot be awarded for the same major.
2. Students must complete all requirements of the Liberal Education Program.
3. Students must complete a minimum of 120 semester credits.
4. At least 30 of the last 60 degree credits earned immediately before graduation must be awarded by UMD.
5. Students must complete at least half of their courses at the 3xxx-level and higher at UMD. Study-abroad credits earned through courses taught by UM faculty and at institutions with which UMD has international exchange programs may be used to fulfill this requirement.
6. If a minor is required, students must take at least three upper division credits in their minor field from UMD.
7. The minimum cumulative UM GPA required for graduation will be 2.00 and will include only University of Minnesota coursework. A minimum UM GPA of 2.00 is required in each UMD undergraduate major and minor. No academic unit may impose higher grade point standards to graduate.
8. Diploma, transcripts, and certification will be withheld until all financial obligations to the University have been met.

Program Requirements

1. A minor or a second major from another department.

Advanced Writing (3 cr)

Advanced Writing - 31xx

Calculus (10 cr)

Calculus I

Take one of the following Calculus I courses:

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)

or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)

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Calculus II
MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Core (42-43 cr)
Computer Science
CS 1511 - Computer Science I [LE CAT] (5.0 cr)
or CS 1581 - Honors: Computer Science I [LE CAT] (5.0 cr)
Mathematics Core I
MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)
MATH 3298 - Calculus III (4.0 cr)
MATH 3355 - Discrete Mathematics (4.0 cr)
Mathematics Core II
MATH 4201 - Elementary Real Analysis (4.0 cr)
or MATH 4326 - Linear Algebra (3.0 cr)
Statistics Core I
STAT 3611 - Introduction to Probability and Statistics (4.0 cr)
STAT 3612 - Introduction to Probability and Statistics II (3.0 cr)
Statistics Core II
STAT 4511 - Regression Analysis (3.0 cr)
or STAT 5511 - Regression Analysis (3.0 cr)
STAT 4531 - Probability Models (4.0 cr)
or STAT 5531 - Probability Models (4.0 cr)
STAT 4571 - Probability (4.0 cr)
or STAT 5571 - Probability (4.0 cr)
STAT 4572 - Statistical Inference (4.0 cr)
or STAT 5572 - Statistical Inference (4.0 cr)

Math Undergraduate Colloquium (1 cr)
Students must register their last semester before graduation.
MATH 3941 - Undergraduate Colloquium (1.0 cr)

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Duluth Campus

Statistics Minor

Mathematics & Statistics

Swenson College of Science and Engineering

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2022
- Required credits in this minor: 20 to 22

The minor in statistics is based on the completion of traditional mathematics courses including Calculus and Linear Algebra, a required introductory statistics course, one advanced course in a traditional statistics area, and two additional, advanced elective statistics courses. The minor in statistics certifies a student's quantitative, problem-solving, and critical thinking skills.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

1. The Statistics minor is not allowed with a Mathematics major or with a Statistics major.

2. Students may not receive both a minor in Mathematics and a minor in Statistics.

Calculus (5 cr)

Students choosing MATH 3280, STAT 3411, 3612, or 4511 as options below will be required to complete the prerequisite course MATH 1297 Calculus II.

MATH 1290 - Calculus for the Natural Sciences [LE CAT2, LOGIC & QR] (5.0 cr)
or MATH 1296 - Calculus I [LE CAT, LOGIC & QR] (5.0 cr)
or MATH 1297 - Calculus II [LOGIC & QR] (5.0 cr)

Additional Mathematics (3 - 4 cr)

MATH 3326 - Vectors and Matrices (3.0 cr)
or MATH 3280 - Differential Equations with Linear Algebra (4.0 cr)

Introduction to Statistics (3 - 4 cr)

STAT 3411 - Engineering Statistics (3.0 cr)
or STAT 3611 - Introduction to Probability and Statistics (4.0 cr)

Additional Statistics (3 cr)

STAT 3612 - Introduction to Probability and Statistics II (3.0 cr)
or STAT 4511 - Regression Analysis (3.0 cr)
or STAT 5411 - Analysis of Variance (3.0 cr)

Statistics Electives (6 cr)

Each elective course must be 3 credits or more. Neither STAT 3411 nor 3611 can be counted as Statistics Electives. Any of STAT 3612, 4511, and/or 5411, which are not counted in the Statistics Requirement category, may count towards the Statistics Electives.
Take 2 or more course(s) totaling 6 or more credit(s) from the following:

- STAT 3xxx
- STAT 4xxx
- STAT 5xxx

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