The Master's program in Integrated Sciences (MIS) is designed to provide a broad-based, content-rich curriculum that integrates knowledge and methods from natural and physical sciences, mathematics, and computer science disciplines. MIS is a 30 semester-hour interdisciplinary program in which students take courses from two or three disciplines, identify a faculty mentor, and complete a Master's project or thesis. The signature aspect of the program is that the capstone experience must truly integrate the interdisciplinary content into a unified program of research.

Possessing the minimum requirements will guarantee that the application is considered. It does not, however, guarantee admission. The admissions committee will select students competitively to create a high-quality and balanced cohort of participants entering the program each year.

The MIS curriculum is ideal for students interested in bridging the traditional barriers of science disciplines. It is perfect preparation for a broad range of careers that require skills in multiple areas, disciplines, and fields.

MIS students are as diverse as our curriculum. Some are already working in a technical environment with an interest in higher-level research activities. Others are educators looking to enhance their proficiency across disciplines that will prepare them for teaching opportunities such as CU Succeed and other concurrent enrollment programs.

Our program is especially attractive to graduating double majors seeking a Master's program that will allow them to further explore their dual interests through graduate school. Health science professionals have used the program to enhance their existing credentials with a Master's degree designed around biochemistry, biophysics, or computational biology, thus increasing their desirability to PhD and MD programs.

Admission Requirements
Admission into the Integrated Sciences program is competitively based. Minimum requirements for an application to be considered are:

- the graduate application form for the University of Colorado Denver, including all application fees
- a statement of purpose specifying why the applicant wishes to be admitted to the program, the applicant’s primary and secondary disciplines of interest, and their academic and professional goals
- three letters of recommendation from individuals who can speak to the applicant’s academic qualifications, of which at least two must be from academic sources
- transcripts from all institutions of higher learning attended by the applicant
- a bachelor’s degree from an accredited college or university
- a minimum cumulative undergraduate GPA of 3.0 on a 4.0 scale; however, applicants with an undergraduate GPA below 3.0 may be considered if they have taken the Graduate Record Examination (GRE) and if the scores are forwarded to the program office
- 40 semester hours of undergraduate courses in biology, chemistry, computer science, environmental sciences, geology, mathematics, and/or physics

The admissions committee will select students competitively to create a high-quality and balanced cohort of participants entering the program each year.

Application Deadline
Students are admitted for the spring and fall semesters. Applications are reviewed on a rolling basis. Priority deadlines for completed applications are April 15 for fall admission and October 15 for spring admission.

Programs
- Integrated Sciences, MIS (http://catalog.ucdenver.edu/graduate/schools-colleges-departments/college-liberal-arts-sciences/integrated-sciences/integrated-sciences-mis/)

Master of Integrated Sciences (MINS) Courses
MINS 5000 - Topics (3-4 Credits)
With prior approval by a candidate's advisor, an MIS candidate may enroll in an upper division course in science, computer science, mathematics, and complete additional work for graduate credit. Prereq: MIS candidate with 12 hours of upper division (4000 level) or graduate level work completed. Term offered: fall, spring, summer. Repeatable. Max Hours: 8 Credits.
Grading Basis: Letter Grade
Repeatable. Max Credits: 8.
Prereq: MIS candidate with 12 hours of approved coursework completed and Program Director approval.
MINS 5200 - Research Methods in Interdisciplinary Science (3 Credits)
This course introduces methods used in interdisciplinary research in the physical and natural sciences, mathematics, and computer science and prepares students for developing research-based Master's project/thesis proposals. Topics include the scientific method and ethics, experimental design, data collection and analysis, literature searches, evaluation of scientific literature, scientific writing, and oral presentation. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall. Max hours: 3 Credits.
Grading Basis: Letter Grade
Prereq: MIS Candidate and Program Director approval (consent required).

MINS 5840 - Independent Study (1-3 Credits)
Note: Students must submit a special processing form completely filled out and signed by the student and faculty member, describing the course expectations, assignments and outcomes, to the Graduate School for approval. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall, spring, summer. Repeatable. Max hours: 3 Credits.
Grading Basis: Letter Grade
Prereq: MIS Candidate and Program Director approval (consent required).

MINS 5880 - Directed Research (1-3 Credits)
Students will engage in original research projects supervised and mentored by faculty. Students must work with faculty prior to registration to develop a proposal for their project and receive permission to take this course. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall, spring, summer. Max Hours: 6 Credits.
Grading Basis: Letter Grade
Prereq: MIS Candidate and Program Director approval (consent required).

MINS 5939 - Internship (1-3 Credits)
Note: Students must submit a special processing form completely filled out and signed by the student and faculty member, describing the course expectations, assignments and outcomes, to the Graduate School for approval. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall, spring, summer. Repeatable. Max hours: 3 Credits.
Grading Basis: Letter Grade
Repeatable. Max Credits: 3.
Prereq: MIS Candidate and Program Director approval (consent required).

MINS 5950 - Master's Thesis (1-6 Credits)
Note: Students must submit a special processing form completely filled out and signed by the student and faculty member, describing the course expectations, assignments and outcomes, to the Graduate School for approval. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall, spring, summer. Repeatable. Max hours: 6 Credits.
Grading Basis: Letter Grade with IP
Prereq: MIS Candidate and Program Director approval (consent required).
Additional Information: Report as Full Time.

MINS 5960 - Master's Project (1-4 Credits)
Note: Students must submit a special processing form completely filled out and signed by the student and faculty member, describing the course expectations, assignments and outcomes, to the Graduate School for approval. Prereq: MIS Candidate and Program Director approval (consent required). Term offered: fall, spring, summer. Repeatable. Max hours: 8 Credits.
Grading Basis: Letter Grade with IP
Repeatable. Max Credits: 8.
Prereq: MIS Candidate and Program Director approval (consent required).
Additional Information: Report as Full Time.