

Interdisciplinary Sciences – Pre-Professional Health Sciences



Career Profile

A strong background in science prepares students in the pre-professional health sciences specialization for entry into a variety of graduate and professional programs, including pre-chiropractic, pre-optometry, pre-dentistry, pre-medicine, pre-occupational therapy, pre-physician's assistant, pre-physical therapy, medical technology, and medical radiography.

Working closely with their advisor, they will select the courses needed to fulfill the graduation requirements for the interdisciplinary sciences degree and to meet the entrance requirements for the professional schools in health science.

Accreditation

The South Dakota School of Mines and Technology is accredited by the Higher Learning Commission of the North Central Association of Colleges and Secondary Schools, the recognized accrediting agency for the north central states. In 2006, the HLC voted to continue accreditation of the School of Mines. The School of Mines has been accredited since 1925.

Faculty

Faculty members from many departments across campus teach courses in the Interdisciplinary Sciences degree track, giving students a wide perspective in many areas of study.

Features and Strengths

Internships in the local medical community and complementary course work in the humanities and social sciences are included to help students meet the admissions requirements of professional schools.

The faculty, by staying knowledgeable about requirements for admission, will help students select the courses that the professional and graduate schools require and recommend.

Program Overview

The Interdisciplinary Sciences program provides students with the world-class science education the School of Mines is known for, but with the added benefit of flexibility in a wide range of study. Individual degree design and the opportunity to study natural sciences, social sciences, humanities, and liberal arts from a broad perspective result in a well-rounded education.

All IS students are required to take a 60-credit core of math, computer science, natural sciences, and social science. These are complemented with program specialized courses and a senior capstone project that reflects your professional goals and integrates the coursework leading to your IS degree.

For students interested in Medical Technology (MT) or Radiologic Technology (RT), the School of Mines has an articulation agreement with Rapid City Regional Hospital, which has fully certified MT and RT programs. Students take prerequisite course work at the School of Mines before applying to either program.

Outcomes

- 98 percent of 2005-06 School of Mines graduates were placed in their field or entered a graduate program within a year of graduation.
- School of Mines graduates received salary offers that average approximately \$54,000.
- 80 percent of graduates gain real-life experience through internships and co-ops.

Student Organizations

Students at the School of Mines also have a variety of opportunities for extra-curricular activities that range from music, intramurals, and drama to ski and snowboarding clubs, and more than 75 other clubs and professional student organizations. These are important activities for our students and we encourage them to take full advantage of out-of-classroom events.

The Center for Advanced Manufacturing and Production (CAMP) is designed to teach students engineering, science and design skills, as well as the ability to work in teams. Team members design, build, market and raise the money for their projects. All students are welcome to work on CAMP projects.

Research

A senior capstone experience allows students to explore a health science topic and then conduct a research project that reflects their professional goals and integrates the coursework leading to an interdisciplinary sciences degree.

Curriculum Listing

<http://catalog.sdsmt.edu>

SPECIALIZATION IN PRE-PROFESSIONAL HEALTH SCIENCES: CURRICULUM/COURSE CHECKLIST

FRESHMAN YEAR

First Semester

BIOL 121/121L Human Anatomy & Lab	4
ENGL 101 Composition I	3
IS 110 Explorations	2
Math/CSC Elective ¹	3
Gen Ed Humanities/Social Science Elective	3
TOTAL	15

Second Semester

BIOL 123/123L Basic Physiology and Lab	4
CHEM 112/112L Gen Chemistry I and Lab	4
Math/CSC Elective	3
PE Physical Education	1
Gen Ed Humanities/Social Science Elective	3
TOTAL	15

SOPHOMORE YEAR

First Semester

BIOL 151/151L Gen Biology I & Lab	4
CHEM 114/114L Gen Chemistry II & Lab	4
ENGL 279 Technical Communications I	3
IS 201 Introduction to Science, Technology, and Society	3
Gen Ed Humanities/Social Science Elective	3
TOTAL	17

For More Information contact:
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Second Semester

BIOL 153/153L Gen Biology II & Lab	4
ENGL 289 Technical Communications II	3
Math/CSC Elective	3
Gen Ed Humanities/Social Science Elective	3
Elective ²	4
TOTAL	17

JUNIOR YEAR

First Semester

Math/CSC Elective	3
Upper Division Science Elective	3
Upper Division HU/SS Elective	3
Electives	7
TOTAL	16

Second Semester

Science Electives	4
Upper Division HU/SS elective	3
Upper Division Science Elective	3
Elective	7
TOTAL	17

SENIOR YEAR

First Semester

IS 401 Writing and Research in the Interdisciplinary Sciences	3
Science Elective	4
Upper Division HU/SS Elective	3
Upper Division Science Elective	3
PE Physical Education	1
Elective	1
TOTAL	15

Second Semester

IS 498 Undergrad Res/Scholarship	3
Science Electives	4
Upper Division HU/SS Elective	3
Upper Division Science Elective	3
Elective	3
TOTAL	16

128 credits required for graduation