Teaching Sciences (Earth & Space, Life, and Physical Sciences - Chemistry or Physics) B.A.Sc.

Major
Bachelor of Applied Science Education
College of Education and Human Service Professions

Teaching Sciences at UMD prepares students for licensure in general science (grades 5-8) as well as a second license in a chosen content area (see below). All students take core science coursework in biology, chemistry, geology, physics, and mathematics. They learn how to teach sciences both inside and outside the classroom, integrating environmental education into formal and nonformal settings such as parks and nature centers. In the heart of northern Minnesota, students have the opportunity to go out into our abundant natural environments to apply science to the real world.

Teaching Earth & Space Science: This Bachelor of Applied Science (B.A.Sc.) degree is offered by the Department of Education in conjunction with the Department of Geological Sciences. Students have the option of completing an environmental education emphasis with this major.

Teaching Life Science: This Bachelor of Applied Science (B.A.Sc.) degree is offered by the Department of Education in conjunction with the Department of Biology. Students have the option of completing an environmental education emphasis with this major.

Teaching Physical Science: This Bachelor of Applied Science (B.A.Sc.) degree in teaching Chemistry or Physics is offered by the Department of Education in conjunction with the Department of Chemistry or Physics. Students choose an emphasis in either chemistry or physics for this major.

Why UMD

- Graduates will be eligible for MN licensure in general science grades 5-8 in addition to one of the following: Teaching Life Science 9-12, Teaching Earth & Space Science 9-12, Teaching Physics 9-12, or Teaching Chemistry 9-12.
- Graduates are highly sought after for their in-depth understanding of science, teaching, and technology.
- Field-based program with 40+ weeks of opportunities to be immersed in multiple classrooms.
- Focused coursework on teaching about and with American Indians, as well as the role of diversity in American education; candidates develop an understanding of working with all learners.
- Courses are rooted in current best practices that will prepare graduates to help students discover the world around them through inquiry and exploration.

Acquired Skills

- Effective lesson plan design and instruction.
- Oral and written communication skills.
- Ability to create instruction opportunities that are adapted to students with diverse backgrounds and exceptionalities.
- Use data to inform and improve instruction and programs.

Career Possibilities

Entry Level:

- Middle or high school teacher
• Teach science in a non-formal education setting such as a zoo, museum, or park

Advanced Degree:
• Dean of Students
• Principal
• School Counselor
• Superintendent
• Community College Instructor

Scholarships

Students in CEHSP are eligible to apply for more than 100 scholarships each academic year typically totaling $120,000 annually. For more information on scholarship opportunities, visit our scholarship webpage (https://z.umn.edu/scholarshipcehsp).

UMD's Education Department has over 25 scholarships ranging from $1,000 to $10,000. Scholarships vary in criteria and some are specifically for subject areas or students entering student teaching in the US or starting their student teaching abroad.

Student Clubs

• Education MN Student Association (EMSA)

Faculty Highlights

• Recipients of campus and college awards for outstanding teaching, research, advising, and service.
• Faculty members are dedicated teachers, academic advisors, scholarly researchers, and curriculum designers.

Graduate Report

Recent UMD Graduates Job Placement Data & Employers

Here's a sampling of positions Teaching Sciences grads have attained six months to one year after graduation.

• Science Teacher - West St. Paul-Mendota Heights-Eagan School District 197, West St. Paul, MN

• 5th Grade Science Teacher - Northwest Suburban Integration School District, Rockford, MN
• Earth Science Teacher - Virginia Minnesota Public Schools, Virginia, MN
• High School Chemistry Teacher - School District of West De Pere, De Pere, WI

For more data see the Teaching Sciences Graduate Follow-Up Report.
For ideas about Teaching Sciences and other majors visit Career & Internship Services.