OVERVIEW

Your educational background – and the pursuit of coursework beyond an undergraduate degree – is important to school districts when they consider which teachers to retain, promote, and offer a pay increase. A master’s degree is also a useful way to enhance your professional expertise by building on your prior teaching experience. Earn your education master’s degree within a program created specifically for current and aspiring natural science teachers.

During this master’s in science education program, you will:

- Expand your natural science knowledge in the areas of biology, chemistry, physics, and environmental science for use in middle and high school classrooms
- Immerse yourself in coursework related to curriculum development, instructional theory, and pedagogy
- Advance your instructional skills with coursework that explores classroom management, presentation skills, communication, and discipline
- Use Science Lab Kits created specifically for individual courses within the program, then implement the experiments within your own classroom

“I’ve enjoyed the MNSE program because it gave me a chance to continue my education while teaching. The labs and lecture material are practical and useable in class. I felt comfortable teaching [the labs] since I had already tried [them] as a student. Ideas presented in the program are specifically catered toward high school curricula; they are a supplement to what teachers are already doing.”

Lindsay Martin
Graduate

DELIVERY

Online

CREDITS

30-31 credits

TUITION

$565-$720 per credit; financial aid is available

TIME FRAME

Can be completed in 2 years

DEGREE AWARDED

Master of Natural Sciences Education in Natural Sciences Education

OFFERED BY

College of Natural Sciences

LEARN MORE

online.colostate.edu/degrees/natural-sciences-education

Contact our Student Success Team to get started! (970) 492-4898 online.colostate.edu/contact
MINIMUM ADMISSION REQUIREMENTS

- A bachelor’s degree in a science or science-related discipline from a regionally-accredited institution

- A 3.0 GPA in undergraduate coursework (Exceptions may be made for students who are applying through Track II Admission)

- Be a practicing instructor and/or licensed educator; applicants with strong science backgrounds and a desire to become educators are considered for admission on a provisional basis.

- GRE test scores are not required

COMPLETION REQUIREMENTS

- A minimum of 30 credits for the research option and 31 credits for the coursework option

- 24 graduate level credits, 500-level or above, must be earned at Colorado State University; 21 of which must be earned after formal admission

CURRICULUM

Education Courses

Develop a foundation in research, curriculum development, and policy.

- EDRM 602 – Action Research (3 cr.)
- EDUC 619 – Curriculum Development (3 cr.)
- EDUC 660 – Advanced Methods – Science and Math Instruction (3 cr.)

Natural science courses (15–18 credits)

Expand your knowledge in a specific science discipline.

- NSCI 619 – Physics for Science Educators (3 cr.)
- NSCI 620 – Chemistry for Science Educators (3 cr.)
- NSCI 630 – Spectroscopy for Science Educators (3 cr.)
- NSCI 640 – Energetics for Science Educators (3 cr.)
- NSCI 650 – Pollution and Environmental Biology for Educators (3 cr.)
- NSCI 660 – Evolutionary Biology for Educators (3 cr.)
- STAT 511 – Design and Data Analysis for Researchers I (4 cr.)

Research Option (6 credits)

Develop and complete research in your preferred science discipline

- NSCI 698 – Research Experience in Natural Sciences

Coursework Option (3 credits)

Focus on an advanced area of interest.

- NSCI 695 – Independent Study for MNSE

DESIGNED FOR

- Current science teachers hoping to learn new pedagogical techniques that contribute to student learning and engagement
- Current science teachers who want the flexibility to teach other natural science disciplines by solidifying their knowledge in biology, chemistry, physics, and environmental science
- Individuals with strong science backgrounds and past or current experience in educational settings who would like to earn a master’s degree in science education and separately pursue a teaching certification

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