

MASTER OF NATURAL SCIENCES EDUCATION, PLAN C (M.N.S.E.)

The Master of Natural Sciences Education, Plan C (M.N.S.E.) is an online degree program (<https://www.online.colostate.edu/degrees/natural-sciences-education/>) designed for:

- Current science teachers with a desire 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 enhancing their knowledge in biology, chemistry, physics, Earth science, and environmental science;
- Current non-science teachers with a natural science undergraduate degree who would like to pursue science teaching positions;
- Current non-science teachers with a related undergraduate degree (computer science, agriculture, engineering) and a strong science background who would like to pursue science teaching positions; and,
- 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.

Students interested in graduate work should refer to the Graduate and Professional Bulletin (<https://catalog.colostate.edu/general-catalog/graduate-bulletin/>).

Learning Objectives

Successful students will:

1. Understand natural science knowledge in the content areas of biology, chemistry, Earth science, physics, and environmental science;
2. Apply science content and pedagogy to the teaching of middle and high school students;
3. Create secondary science curricula that informs curriculum development with science theory and practice, instructional theory, and metrics for learning effectiveness;
4. Apply hands-on teaching tools, methods, and lesson enhancements that engage students and facilitate learning.