In addition to or as part of the requirements below, students who pursue secondary middle school science certification (5-8) at UNH must:

- Possess an undergraduate degree with a major in science(s), or
- Possess an undergraduate degree that includes coursework equivalent to an undergraduate major in science(s) (typically 40-48 credits or 10-12 courses).

**Biology**

One course from the Botany group and one from the Zoology group:
- PBIO 412 Introduction to Botany
- ZOOL 412 Biology of Animals or
- ZOOL 507 & 508 Human Anatomy and Physiology
  or BIOL 411 & 412 General Biology I & II

**Chemistry**

CHEM 403 & 404 General Chemistry I & II

**Field Natural History**

One course from below:
- PBIO 566 Systematic Botany
- NR 425 Field Dendrology
- NR 410 Insects and Society
- ZOOL 503 Introduction to Marine Biology
- ZOOL 542 Ornithology
- ZOOL 674 Field Marine Science (summers only)

**Physics**

One two-course sequence from below:
- PHYS 401 & 402 Introduction to Physics I & II
- PHYS 407 & 408 General Physics I & II

**Earth Science**

One course or two-course sequence from below:
- ESCI I & II Principles of Geology I and II ESCI 409, Environmental Geology
- ESCI 501, Introduction to Oceanography

**Recommended Courses**

- GEOG 572, Physical Geography, BIOL 541 General Ecology
- ANSC 401 Animals and Society
- PBIO 421 Introductory Horticulture
- MICR 503 General Microbiology
- PHYS 406 Introduction to Modern Astronomy

**Education Requirements for General Science Certification**

EDUC 500/935 Exploring Teaching
EDUC 700/800 Educational Structure and Change
EDUC 701/801 Human Development and Learning
EDUC 705/805 Alternative Perspectives on the Nature of Education
EDUC 707/807 Teaching Reading Through the Content Area (2 credits)
EDUC 751/851B Educating Exceptional Learners
EDUC 791/891 Methods of Teaching Secondary School Science
EDUC 900, 901 Internship & Seminar in Teaching (12 credits)

**Any Education course taken for a teacher licensure requirement must be completed with a grade of B- or better. This applies to any courses from other departments that have been designated as equivalent to an Education course.**

**Contact:**
- Assistant Professor Diane Silva Pimentel at diane.silvapimentel@unh.edu
- Cindy Glidden at cindly.glidden@unh.edu