

## **Middle Science Certification (5-8)**

Students seeking Middle Science Certification (5-8) through a UNH teacher education program 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:***

BIOL 409 Introduction to Botany

ZOOL 412 Biology of Animals **or** BMS 507 & BMS 508 Human Anatomy and Physiology I & II

**or** BIOL 411 & 412 General Biology I & II

### **Chemistry**

CHEM 403 & 404 General Chemistry I & II

### **Earth Science**

***One course or two-course sequence from below:***

ESCI 401 Dynamic Earth or ESCI 409 Geology and the

Environment & ESCI 402 Earth History

ESCI 501 Introduction to Oceanography

### **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

### **Physics**

***One two-course sequence from below:***

PHYS 401 & 402 Introduction to Physics I & II

PHYS 407 & 408 General Physics I & II

### **Recommended Courses**

GEOG 572 Physical Geography

BIOL 541 General Ecology

ANSC 401 Animals and Society

PBIO 421 Introductory Horticulture

BMS 503 General Microbiology

PHYS 406 Introduction to Modern Astronomy

### **Education course requirements**

\*EDUC 500/935A Exploring Teaching

EDUC 605 Educational Perspectives in Critical Times

EDUC 701/801 Human Development & Learning: Educ Psyc

EDUC 707/807 Teaching Reading through the Content Areas

EDUC 751B/851B Educating Exceptional Learners: Secondary

EDUC 791/891 Methods of Teaching Secondary School Science

EDUC 900A & EDUC 901A Internship & Seminar in Teaching (2 semesters Fall and

Spring)

\*Indicates course work must be completed before the internship

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.

### Degrees (Minimum of 32 Graduate credits)

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| M.Ed. In addition to the 12 credit internship, 10 graduate credits must be UNH Education courses. The remaining graduate credits can be in Education, Science or another department. | M.A.T. In addition to the 12 credit internship, three graduate level courses (9-12 credits) must be in Science. The remaining graduate credits can be in Science, Education or another department. |
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Admission to the M.Ed. or M.A.T. is competitive and requires submission of an application to the UNH Graduate School. This includes official transcripts, scores from the Praxis Core exam, personal statement and three letters of recommendations. Thirty-two (32) Graduate credits are the minimum for either degree.

For questions regarding Science course requirements, contact Melissa Aikens at [Melissa.Aikens@unh.edu](mailto:Melissa.Aikens@unh.edu)

For questions regarding Education course requirements contact Cindy Glidden at [cindy.glidden@unh.edu](mailto:cindy.glidden@unh.edu)

**Middle School Science course requirements for students who have completed a baccalaureate degree at a school other than UNH**

Students seeking Middle Science Certification (5-8) through a UNH teacher education program 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).

***One course from the Botany group and one from the Zoology group:***

BIOL 409 Introduction to Botany

Equivalent course \_\_\_\_\_

ZOOL 412 Biology of Animals **or** BMS 507 & BMS 508 Human Anatomy and Physiology I & II  
**or** BIOL 411 & 412 General Biology I & II

Equivalent course \_\_\_\_\_

CHEM 403 & 404 General Chemistry I & II

Equivalent course \_\_\_\_\_

***One course or two-course sequence from below:***

ESCI 401 Dynamic Earth or ESCI 409 Geology and the Environment  
& ESCI 402 Earth History

Equivalent course \_\_\_\_\_

ESCI 501 Introduction to Oceanography

Equivalent course \_\_\_\_\_

***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

Equivalent course \_\_\_\_\_

***One two-course sequence from below:***

PHYS 401 & 402 Introduction to Physics I & II

PHYS 407 & 408 General Physics I & II

Equivalent courses \_\_\_\_\_

**Recommended Courses**

GEOG 572 Physical Geography

BIOL 541 General Ecology

ANSC 401 Animals and Society

PBIO 421 Introductory Horticulture

BMS 503 General Microbiology

PHYS 406 Introduction to Modern Astronomy