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 700/800 Educational Structure & Change
EDUC 701/801 Human Development & Learning: Educ Psyc
*EDUC 705/805 Contemporary Educ Perspectives
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)

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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
For questions regarding Education course requirements contact Cindy Glidden at 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:
PBI0 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
PBI0 421 Introductory Horticulture
BMS 503 General Microbiology
PHYS 406 Introduction to Modern Astronomy

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