Life Sciences Certification (7-12)

Students pursing Life Sciences Certification (7-12) through a UNH teacher education program must possess an undergraduate degree with a major in an area of Life Sciences (e.g., Biology, Environmental Studies, Botany, Physiology, etc. or an interdisciplinary life science degree). Or possess an undergraduate degree that includes coursework equivalent to an undergraduate major in the Life sciences (typically 40-48 credits or 10-12 courses).

Required Courses
BIOL 411 Introductory Biology: Molecular and Cellular
BIOL 412 Introductory Biology: Evolution, Biodiversity and Ecology or BIOL 409 Introductory Botany & ZOOL 412 Biology of Animals
GEN 604 Principles of Genetics
ZOOL 518 Vertebrate Morphology
ZOOL 625 Principles of Animal Physiology or ZOOL 628 Marine Invertebrate Evolution and Ecology
PBIOL 566 Systematic Botany
BIOL 541 General Ecology
CHEM 403 General Chemistry I
CHEM 404 General Chemistry II
CHEM 651 Organic Chemistry I & CHEM 653 Organic Chemistry Lab

Recommended
BMCB 605 Eukaryotic Cell and Developmental Biology
BIOL 528 Applied Biostatistics I
MATH 424B Calculus for Life Sciences

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)

| 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, Life Sciences or another department. | M.A.T. In addition to the 12 credit internship, three graduate level courses (9-12 credits) must be in Life Sciences. The remaining graduate credits can be in Life Sciences, Education or another department. |

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 Professor Melissa Aikens at melissa.aikens@unh.edu For questions regarding Education course requirements contact Cindy Glidden at cindy.glidden@unh.edu
Life Science course requirements for students who have completed a baccalaureate degree at a school other than UNH

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BIOL 411 Introductory Biology: Molecular and Cellular
Equivalent course___________________________________

BIOL 412 Introductory Biology: Evolution, Biodiversity and Ecology
or BIOL 409 Introductory Botany & ZOOL 412 Biology of Animals
Equivalent course___________________________________

GEN 604 Principles of Genetics
Equivalent course___________________________________

ZOOL 518 Vertebrate Morphology
Equivalent course___________________________________

ZOOL 625 Principles of Animal Physiology or ZOOL 628 Marine Invertebrate Evolution and Ecology
Equivalent course___________________________________

PBIO 566 Systematic Botany
Equivalent course___________________________________

BIOL 541 General Ecology
Equivalent course___________________________________

CHEM 403 General Chemistry I
Equivalent course___________________________________

CHEM 404 General Chemistry II
Equivalent course___________________________________

CHEM 651 Organic Chemistry I & CHEM 653 Organic Chemistry Lab
Equivalent courses___________________________________

Equivalent courses___________________________________

Recommended
BMCB 605 Eukaryotic Cell and Developmental Biology
Equivalent course___________________________________

BIOL 528 Applied Biostatistics I
Equivalent course___________________________________

MATH 424B Calculus for Life Sciences
Equivalent course___________________________________

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