HAMLINE UNIVERSITY
School of Education

Additional Licensure Program ■ School of Education

Additional License Requirements:
9-12 Life Science Endorsement

Licensure Requirements (Additional License)

1. MTLE: Life Science Content Knowledge
2. MTLE: Pedagogy, Secondary 5-12
3. MTLE: Basic Skills Test

If you are already licensed in Minnesota only the content knowledge test in the new licensure field is required.

Education Courses

GED 7825	Educational Psychology, 4cr
GED 7815	Schools and Society, 4cr
GED 7862	Education and Cultural Diversity, 4cr
GED 7872	Exceptionality, 2cr
GED 7867	Theory to Practice, 4cr

TYPICALLY SATISFIED BY INITIAL LICENSE

GED 7871	Teaching Literacy in the Middle and Secondary School/5-12, 4cr
GED 7875	Teaching in the Secondary School, 4cr
GED 7874	Teaching Science in the Middle and Secondary School/5-12, 4cr
GED 7790	Advanced Practicum, 1-3cr

Biology 9-12 Courses

BIOL 1800	Principles of Ecology and Evolution, 4cr
BIOL 3060	Principles of Cell Biology, 4cr
BIOL 3050	Principles of Genetics, 4cr
BIOL 1820	Principles of Plant and Animal Physiology, 4cr

Chemistry Course

CHEM 1130 General Chemistry I, 4cr

Choose One:

- MATH 1150 Pre-Calculus, 4cr
- **OR** MATH 1170 Calculus I, 4cr
- **OR** College Algebra (not offered at HU)

Choose One:

- PSY 1340 Statistics: Behavioral Science, 4cr
- **OR** ECON 1330 Statistics, 4cr

Related Course

Biology course with a research component
(BIOL 5650 Animal Behavior fulfils this research component)

Biology Courses *(Choose ONE from each of the following categories)*

Organismal

BIOL 3400 Comparative Anatomy, 4cr
BIOL 3500 Plant Adaptation & Diversity, 4cr
BIOL 3650 Invertebrate Biology, 4cr
BIOL 5600 Dev. Biology, 4cr

Cell Molecular

BIOC 3820 Biochemistry I, 4cr
BIOC 3830 Biochemistry II, 4cr
BIOL 3830 Applied Biotechnology, 4cr
BIOL 5550 Microbiology, 4cr
BIOL 5760 Immunology, 4cr

Population Biology

BIOL 3770 Population Genetics and Evolution, 4cr
BIOL 5540 Aquatic Biology, 4cr
BIOL 5590 Ecology, 4cr
BIOL 5650 Animal Behavior, 4cr