

# HAMLIN UNIVERSITY

Additional Licensure Program \* School of Education

Revised 3/08

## Additional License Requirements: Physics 9-12/ Science 5-8

### *Licensure Requirements (Additional License)*

- Praxis II: Content Area - Physics
- Praxis II: Content Area – Middle School Science

### *Education Courses (Additional License)*

Typically satisfied  
with initial license

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

GED 7875 Teaching in the Secondary School, 4cr

GED 7871 Teaching Literacy in the Middle and Secondary School/5-12, 2cr

GED 7874 Teaching Science in the Middle and Secondary School/5-12, 4cr

GED 7790 Advanced Practicum, 1-3 cr.

### *Physics Courses(Additional License)*

PHYS 1150/1230 General Physics I, 4cr

PHYS 1160/1240 General Physics II, 4cr

PHYS 3250 Intro to Thermo- & Electro- Dynamics (Physics III) 4cr

PHYS 3540 Modern Physics (Physics IV) 4cr

PHYS 5920 Research Project-Based Advanced Laboratory, 4cr

PHYS 5930 Theoretical Mechanics, 4cr

### *Course with Research Component (can include above)*

NOTE: Hamline course that fulfills research component: PHYS 5920

### *Science 5-8 Courses (Additional License)*

- BIOL 1800 Principles of Ecology & Evolution, 4cr
- BIOL 1820 Principles of Plant and Animal Physiology, 4cr
- CHEM 1130 General Chemistry, 4cr
- CHEM 1140 General Chemistry, 4cr
- SCED 7021 Astronomy for Teachers or equivalent Astronomy course
- SCED 7205 Earth System Science for Middle School Teachers or equivalent Physical Geology course

### *Related Courses (Additional License)*

- MATH 1170 Calculus I, 4cr
- MATH 1180 Calculus II, 4cr
- MATH 3320 Multivariable and Vector Calculus, 4cr
- One additional MATH course (3720, 5720 or higher than 3000 level), 4cr
- One computer programming course, 4cr

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