# PHYSICS (7-12)
## LICENSURE REQUIREMENTS
### ADVISING FORM/CHECKLIST

| Name ___________________________ | Date ___________________________
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### EDUCATION COURSES
- _EDUC 110_ The Role of the School
- _EDUC 251_ Psychological Foundations of Education
- _EDUC 367_ Secondary Methods: Science (0.5)
- _EDUC 369_ Field Practicum: Secondary (0.5)
- _EDUC 370_ Secondary Teaching: Knowledge and Practice
- _EDUC 377_ Teaching Workshop: Supporting & Extending the Learning (0.5)
- _*EDUC 471-473_ Student Teaching: Secondary and PreK-12
- _*EDUC 474_ Being & Becoming a Professional: Secondary & PreK-12 Student Teaching Seminar (0.5)
  *Concurrent enrollment during student teaching seminar.

### PHYSICS AND CHEMISTRY COURSES
- _CHEM 110_ General Chemistry I and Lab (1.25)
- _PHYS 110C_ General Physics for Physical Science Majors I
- _PHYS 110L_ General Physics Laboratory I (.25)
- _PHYS 111C_ General Physics for Physical Science Majors II
- _PHYS 111L_ General Physics Laboratory II (.25)
- _PHYS 280_ Contemporary Physics
- **CHOOSE AT LEAST ONE OF THE FOLLOWING:**
  - PHYS 310 Mechanics **OR**
  - PHYS 320 Thermal & Statistical Physics **OR**
  - PHYS 360 Electromagnetic Theory
- **CHOOSE AT LEAST ONE OF THE FOLLOWING:** (Permission of Instructor is Required)
  - PHYS 275 Electronics & Instrumentation I (1.25) **OR**
  - PHYS 345 Advanced Physics Lab (1.25)
- **CHOOSE AT LEAST ONE OF THE FOLLOWING:**
  - BIOL 122 Organisms and their Environment (1.25) **OR**
  - BIOL 120 Introduction to Cell Biology (1.25) **OR**
  - BOMI 125 Introduction to Microbiology and Lab (1.25) **OR**
  - BOMI 233 Ecology and the Human Future **OR**
  - ZOOL 102 Genes, Evolution and Society and Lab (1.25)
- **CHOOSE AT LEAST ONE OF THE FOLLOWING:**
  - ASTR 110 Elementary Astronomy **OR**
  - ASTR 111 The Astronomical Universe and Lab (1.25) **OR**
  - GEOL 110 Physical and Environmental Geology

### ADDITIONAL COURSES
- _MATH 110_ Calculus I
- _MATH 111_ Calculus II
- _*DIVERSITY COURSES (2)_
  *Students seeking teaching licenses must complete two unit courses with a substantial focus on non-Euro-American topics.

### Please Note:
1. Students also must complete the state-mandated examinations for licensure.
2. In order to graduate from OWU, students must declare an academic major and meet the requirements. Licensure requirements may differ from the requirements for the major.

*Each course is 1 unit or 3.75 semester hours, unless otherwise specified.*

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Revised 03/2017