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

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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 Content Area Literacy
- ___*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 3.70 semester hours, unless otherwise specified.*

Revised 04/27/2018