

**EARTH SCIENCES (7-12)  
LICENSURE REQUIREMENTS  
ADVISING FORM/CHECKLIST**

Name _____	Date _____
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<b>EDUCATION COURSES</b>	
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| <ul style="list-style-type: none"> <li>___ EDUC 110 The Role of the School</li> <li>___ EDUC 251 Psychological Foundations of Education</li> <li>___ EDUC 367 Secondary Methods: Science (0.5)</li> <li>___ EDUC 369 Field Practicum: Secondary (0.5)</li> <li>___ EDUC 370 Secondary Teaching: Knowledge and Practice</li> <li>___ *EDUC 377 Teaching Workshop: Supporting &amp; Extending the Learning (0.5)</li> <li>___ *EDUC 471-473 Student Teaching: Secondary and Prek-12</li> <li>___ *EDUC 474 Being &amp; Becoming a Professional: Secondary &amp; PreK-12 Student Teaching Seminar (0.5)</li> </ul> <p style="margin-top: 10px;">*Concurrent enrollment during student teaching seminar.</p> |  |
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<b>EARTH SCIENCE COURSES</b>	
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| <ul style="list-style-type: none"> <li>___ GEOL 110 Physical and Environmental Geology</li> <li>___ GEOL 111 Physical and Environmental Geology Lab (0.25)</li> <li>___ GEOL 112 History of the Earth</li> <li>___ GEOG 375 Weather, Climate and Climate Change</li> <li>___ ASTR 110 Elementary Astronomy</li> <li>___ ASTR 111 The Astronomical Universe and Lab (1.25)</li> <li>___ <b>CHOOSE AT LEAST ONE FROM EACH GROUP (MINIMUM = 3 COURSES):</b></li> <li style="padding-left: 20px;">GEOL 270 Economic Geology and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">GEOL 290 Mineralogy and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">GEOL 310 Igneous &amp; Metamorphic Petrology and Lab (1.25)</li> <li style="padding-left: 40px;"><b>AND</b></li> <li style="padding-left: 20px;">GEOL 285 Tectonics: Earthquakes and Mountain Belts <b>OR</b></li> <li style="padding-left: 20px;">GEOL 340 Structural Geology and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">GEOL 345 Geological Techniques and Lab (1.25)</li> <li style="padding-left: 40px;"><b>AND</b></li> <li style="padding-left: 20px;">GEOL 320 Paleontology and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">GEOL 330 Sedimentology and Stratigraphy and Lab (1.25)</li> </ul> |  |
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<b>OTHER SCIENCE COURSES</b>	
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| <ul style="list-style-type: none"> <li>___ <b>CHOOSE AT LEAST ONE FROM EACH GROUP:</b></li> <li style="padding-left: 20px;">BOMI/ZOOL 122 Organisms and their Environment and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">BOMI 125 Introduction to Microbiology and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">BOMI/ZOOL 120 Introduction to Cell Biology and Lab (1.25)</li> <li style="padding-left: 40px;"><b>AND</b></li> <li style="padding-left: 20px;">CHEM 110 General Chemistry I and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">CHEM 111 General Chemistry II and Lab (1.25)</li> <li style="padding-left: 40px;"><b>AND</b></li> <li style="padding-left: 20px;">PHYS 110 General Physics for Physical Science Majors I and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">PHYS 111 General Physics for Physical Science Majors II and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">PHYS 115 Principles of Physics I and Lab (1.25) <b>OR</b></li> <li style="padding-left: 20px;">PHYS 116 Principles of Physics II and Lab (1.25)</li> </ul> |  |
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*Each course is 1 unit or 3.75 semester hours, unless otherwise specified.*

**OVER**

**ADDITIONAL COURSES****\_\_\_ ONE ADDITIONAL UPPER LEVEL LAB COURSE****\_\_\_ Q Course, Quantitive Reasoning Requirement****\_\_\_ \*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.***OVER**

Revised 11/2011