

**Integrated Science Major (7-12)
Licensure Requirements
Advising Checklist**

Name _____	Date _____
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Education Courses (8.5 units) (7.5 upper-level units) *Concurrent enrollment during student teaching seminar.

- ___ EDUC 110 The Role of the School (Group II)
- ___ EDUC 251 Psychological Foundations of Education (Group II)
- ___ EDUC 255 Inclusive Classroom Management
- ___ EDUC 350 Middle School & Secondary Teaching Methods
- ___ EDUC 359 Middle School & Secondary Field Practicum (0.5)
- ___ EDUC 367 Secondary Methods: Science (0.5)
- ___ EDUC 377 Content Area Literacy
- ___ *EDUC 471-473 Student Teaching: Secondary and PreK-12
- ___ *EDUC 474 Being & Becoming a Professional: Secondary Seminar

Biology

- ___ BIOL 120 Introduction to Cell Biology and Lab (1.25)
- ___ BIOL 271 Genetics
- ___ BIOL 272 Genetics Lab (0.25)
- ___ BIOL 251 Human Anatomy and Physiology (1.25)
- ___ BIOL 261 Evolution

Chemistry Courses

- ___ CHEM 110 General Chemistry I and Lab (1.25)
- ___ CHEM 111 General Chemistry II and Lab (1.25)
- ___ CHEM 270 Analytical Chemistry (1.25)

Environmental Studies and Geology Courses

- ___ ENVS 111 Physical Geography
- ___ ENVS 112 Ecology and the Human Future
- ___ GEOG 245 Weather & Climate

Physics and Astronomy Courses (3.50 units)

- ___ PHYS 115 Principles of Physics I and Lab (1.25)
- ___ PHYS 116 Principles of Physics II and Lab (1.25)
- ___ ASTR 111 Star, Galaxies & Cosmology

Mathematics (1.0 units)

- ___ MATH 110 Calculus I

Distribution Courses

Choose One Full Unit Social Science Course	1) ___
Choose Three Full Unit Humanities Courses <i>*(Need upper level courses)</i>	1) ___ 2) ___ 3) ___
Choose One Full Unit Arts Course <i>*(Need upper level course)</i>	1) ___

OWU Graduation Requirements

OVER

Competency in Writing (possibly complete as part of Distribution Courses)	1) _____ 2) _____ 3) _____
Language Requirement	1) _____ 2) _____
Competency in English	ENG 105 or the equivalent
Cultural Diversity Requirement	1) _____
Quantitative Reasoning Requirement	1) _____
Additional Requirement	UC 160
Additional Education Department Requirement for Licensure	
2 nd Cultural Diversity Course	1) _____

Each course is 1 unit or 3.70 semester hours, unless otherwise specified

Note: Students also must complete the state-mandated examinations for licensure.

Sample Schedule

	Fall	Spring
Year One	4.25 units EDUC 110 –Role of the School ENG 105 MATH 110 Language UC 160 (.25)	4.25 units ENVS 111 BIOL 120 (1.25) Language SS Distribution (recommended PSYC 110)
Year Two	4.25 units EDUC 251 – Psychological Foundations of Education CHEM 110 and Lab (1.25) Humanities Distribution (Writing) ASTR 111	4.50 units CHEM 111 and Lab (1.25) BIOL 251 and Lab (1.25) EDUC 255 (Writing) Humanities Distribution
Year Three	4.50 Units PHYS 115 and Lab (1.25) Humanities Distribution (Writing) BIOL 271 BIOL 272 (0.25) Upper-Level Elective	5.25 units EDUC 350 – Middle School & Secondary Teaching Methods PHYS 116 and Lab (1.25) ENVS 112 GEOG 245 ARTS Distribution
Year Four	4.0 units CHEM 270 EDUC 359 – Middle School & Secondary Field Practicum (0.5)* EDUC 367 – Secondary Methods: Science (0.5) EDUC 377 – Content Area Literacy BIOL 261 *50 hours of field experience in a high school setting	4.0 units EDUC 471-473 Secondary Student Teaching EDUC 474 – Secondary Student Teaching Seminar

For additional requirements, consult the OWU Catalog or the Education Department checklist of courses.