

CHEMISTRY (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.*

CHEMISTRY COURSES

- ___ CHEM 110 General Chemistry I and Lab (1.25)
- ___ CHEM 111 General Chemistry II and Lab (1.25)
- ___ CHEM 260 Organic Chemistry I and Lab (1.25)
- ___ CHEM 261 Organic Chemistry II and Lab (1.25)
- ___ CHEM 270 Analytical Chemistry and Lab (1.25)
- ___ CHEM 350 Physical Chemistry I
- ___ CHEM 352 Physical Chemistry Laboratory (0.25)
- ___ CHEM 340 Biochemistry I and Lab (1.25)
- ___ **CHOOSE ONE OF THE FOLLOWING SETS:**
 - PHYS 110/111 General Physics for Physical Science Majors I, II and Lab (1.25) **OR**
 - PHYS 115/116 Principles of Physics I, II and Lab (1.25)
- ___ **CHOOSE AT LEAST TWO FROM THE FOLLOWING:**
 - CHEM 341 Biochemistry II **OR**
 - CHEM 351 Physical Chemistry II and Lab (1.25) **OR**
 - CHEM 460 Instrumental Analysis (1.25) **OR**
 - CHEM 470 Advanced Inorganic Chemistry (1.25) **OR**
 - CHEM 490 Independent Study **OR**
 - CHEM 491 Directed Reading
- ___ **CHOOSE AT LEAST ONE FROM EACH GROUP:**
 - BOMI/ZOOL 122 Organisms and Their Environment and Lab (1.25) **OR**
 - BOMI 125 Introduction to Microbiology and Lab (1.25) **OR**
 - BOMI 233 Ecology and the Human Future **OR**
 - BOMI/ZOOL 120 Introduction to Cell Biology and Lab (1.25) **OR**
 - ZOOL 102 Genes, Evolution and Society and Lab (1.25)

AND

 - CHEM 230 Environmental Chemistry **OR**
 - GEOL 110 Physical and Environmental Geology **OR**
 - ASTR 110 Elementary Astronomy **OR**
 - ASTR 111 The Astronomical Universe and Lab (1.25)

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

OVER

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.

OVER,

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