

LIFE SCIENCES (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.

SCIENCE AREA COURSES

- ___ BOMI/ZOOL 122 Organisms and their Environment and Lab (1.25)
- ___ BOMI/ZOOL 120 Introduction to Cell Biology and Lab (1.25)
- ___ CHEM 110 General Chemistry I and Lab (1.25)
- ___ CHEM 111 General Chemistry II and Lab (1.25)
- ___ **CHOOSE ONE OF THE FOLLOWING:**
- BOMI/ZOOL 271 Genetics **OR**
- ZOOL 261 Evolution
- ___ **CHOOSE FIVE OF THE OF THE FOLLOWING - AT LEAST ONE FROM EACH GROUP:**
- CONSERVATION, ECOLOGY, & EVOLUTION*
- BOMI 233 Ecology and the Human Future **OR**
- BOMI 355 Plant Response to Global Change (1.25) **OR**
- BOMI 337 Adaptive Biology of Plants (1.25) **OR**
- BOMI 344 Plant Communities and Ecosystems (1.25) **OR**
- ZOOL 261 Evolution **OR**
- ZOOL 345 Marine Biology (1.25) **OR**
- ZOOL 347 Population and Community Ecology (1.25) **OR**
- ZOOL 349 Island Biology (1.25) **OR**
- ZOOL 353 Conservation Biology
- AND**
- CELLULAR AND MOLECULAR*
- BOMI/ZOOL 271 Genetics **OR**
- BOMI 280 Medical Microbiology (1.25) **OR**
- BOMI 326 Plant Physiology (1.25) **OR**
- BOMI 328 Bacterial Physiology (1.25) **OR**
- BOMI 353 Molecular Genetics (1.25) **OR**
- BOMI 357 Molecular Biology of Viruses (1.25) **OR**
- ZOOL 333 Developmental Biology (1.25) **OR**
- BOMI/ZOOL 351 Cell and Molecular Biology (1.25) **OR**
- BOMI/ZOOL 356 Immunology (1.25)

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

OVER

AND

ORGANISMAL AND HUMAN BIOLOGY

BOMI 125 Introduction to Microbiology (1.25) **OR**

BOMI 285 Biology of the Fungi (1.25) **OR**

BOMI 252 Biodiversity of Flowering Plants (1.25) **OR**

ZOOL 251 Human Structure and Function(1.25) **OR**

ZOOL 311 Invertebrate Zoology (1.25) **OR**

ZOOL 313 Entomology (1.25) **OR**

ZOOL 325 Human Physiology (1.25) **OR**

ZOOL 335 Comparative Physiology (1.25) **OR**

ZOOL 341 Ornithology (1.25) **OR**

ZOOL 343 Animal Behavior (1.25) **OR**

ZOOL 361 Parasites and Immunity (1.25)

___ CHOOSE ONE OF THE FOLLOWING:

GEOL 110 Physical & Environmental Geology **OR**

GEOL 112 History of the Earth

ADDITIONAL COURSES

___ CHOOSE ONE ADDITIONAL FULL UNIT NATURAL SCIENCE 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

Revised 11/2011