

**PROGRAM OF STUDY: SECONDARY SCIENCE EDUCATION - BIOLOGY (S4104)**  
**EFFECTIVE TERM: Fall 2020 (2207)**

**I. GENERAL EDUCATION REQUIREMENTS**

**1. COMMUNICATIONS** (6.00 credits)

Gordon rule assigned

- |   |   |
|---|---|
| <input type="checkbox"/> ENC 1101 - English Composition 1 (3 credits) | <input type="checkbox"/> ENC 1102 - English Composition 2 (3 credits) |
|---|---|

**2. ORAL COMMUNICATION** (3.00 credits)

Gordon rule assigned

- |  |  |
|--|--|
| <input type="checkbox"/> ENC 2300 - Advanced Composition and Communication (3 credits) | <input type="checkbox"/> SPC 1017 - Fundamentals of Speech Communication (3 credits) |
| <input type="checkbox"/> LIT 2480 - Issues in Literature & Culture (3 credits)         |  |

**3. HUMANITIES** (6.00 credits)

Gordon rule assigned

Must take 3.0 credits from the following group.

- |   |   |
|---|---|
| <input type="checkbox"/> ARC 2701 - History of Architecture 1 (3 credits) | <input type="checkbox"/> IND 1100 - History of Interiors 1 (3 credits)    |
| <input type="checkbox"/> ARH 1000 - Art Appreciation (3 credits)          | <input type="checkbox"/> MUH 2111 - Survey of Music History 1 (3 credits) |
| <input type="checkbox"/> ARH 2050 - Art History 1 (3 credits)             | <input type="checkbox"/> MUL 1010 - Music Appreciation (3 credits)        |
| <input type="checkbox"/> DAN 2100 - Dance Appreciation (3 credits)        | <input type="checkbox"/> PHI 2604 - Critical Thinking/Ethics (3 credit)   |
| <input type="checkbox"/> HUM 1020 - Humanities (3 credits)                |   |

---

- - - And - - -

---

Must take 3.0 credits from the following group.

- |   |   |
|---|---|
| <input type="checkbox"/> ARC 2702 - History of Architecture 2 (3 credits) | <input type="checkbox"/> LIT 2120 - A Survey of World Literature 2 (3 credits)    |
| <input type="checkbox"/> ARH 2051 - Art History 2 (3 credits)             | <input type="checkbox"/> MUH 2112 - Survey of Music History 2 (3 credits)         |
| <input type="checkbox"/> ARH 2740 - Cinema Appreciation (3 credits)       | <input type="checkbox"/> MUL 2380 - Jazz and Popular Music in America (3 credits) |
| <input type="checkbox"/> DAN 2130 - Dance History 1 (3 credits)           | <input type="checkbox"/> PHI 2010 - Introduction to Philosophy (3 credits)        |
| <input type="checkbox"/> IND 1130 - History of Interiors 2 (3 credits)    | <input type="checkbox"/> THE 2000 - Theatre Appreciation (3 credits)              |

**4. SOCIAL SCIENCE** (6.00 credits)

Gordon rule assigned

Must take 3.0 credits from the following group.

- |   |  |
|---|--|
| <input type="checkbox"/> ANT 2410 - Introduction to Cultural Anthropology (3 credits) | <input type="checkbox"/> CLP 1006 - Psychology of Personal Effectiveness (3 credits) |
| <input type="checkbox"/> DEP 2000 - Human Growth and Development (3 credits)          | <input type="checkbox"/> PSY 2012 - Introduction to Psychology (3 credits)           |
| <input type="checkbox"/> ISS 1161 - The Individual in Society (3 credits)             | <input type="checkbox"/> SYG 2000 - Introduction to Sociology (3 credits)            |

---

- - - And - - -

---

Must take 3.0 credits from the following group.

- |   |   |
|---|---|
| <input type="checkbox"/> AMH 2010 - History of the US to 1877 (3 credits)       | <input type="checkbox"/> POS 2041 - American Federal Government (3 credits)             |
| <input type="checkbox"/> AMH 2020 - History of the US since 1877 (3 credits)    | <input type="checkbox"/> WOH 2012 - History of World Civilization to 1789 (3 credits)   |
| <input type="checkbox"/> ECO 2013 - Principles of Economics (Macro) (3 credits) | <input type="checkbox"/> WOH 2022 - History of World Civilization from 1789 (3 credits) |
| <input type="checkbox"/> ISS 1120 - The Social Environment (3 credits)          |   |

**5. NATURAL SCIENCE** (6.00 credits)

Gordon rule assigned

Must take 3.0 credits from the following group.

- BSC 2010 - Principles of Biology (3 credits)

The following course(s) are not allowed for credit in this area.

All Labs

---

- - - And - - -

---

Must take 3.0 credits from the following group.

- CHM 1045 - General Chemistry and Qualitative Analysis (3 credits)

The following course(s) are not allowed for credit in this area.

All Labs

#### 6. MATHEMATICS (6.00 credits)

Gordon rule assigned

- MAC\*
- MAD 2104 - Discrete Mathematics (3 credits)
- MAP\*
- MAS\*
- MGF\*
- MTG 2204 - Geometry for Educators (3 credits)
- QMB 2100 - Basic Business Statistics (3 credits)
- STA 2023 - Statistical Methods (3 credits)

The following course(s) are not allowed for credit in this area.

All Labs

#### 7. GENERAL EDUCATION ELECTIVES (3.00 credits)

- EDF 1005 - Introduction to the Teaching Profession (3 credits)

#### 8. COMPUTER COMPETENCY

Gordon rule assigned

Test type(s) needed:

- CGS 1060

#### 9. EDUCATION COMMON PREREQUISITES (9.00 credits)

- EDF 2085 - Introduction to Diversity (3 credits)
- EEX 2000 - Introduction to Special Education (3 credits)
- EME 2040 - Introduction to Technology for Educators (3 credits)

#### 10. LOWER DIVISION REQUIREMENTS (14.00 credits)

- BSC 2010L - Principles of Biology 1 Laboratory (2 credits)
- BSC 2011 - Principles of Biology 2 (3 credits)
- BSC 2011L - Principles of Biology Lab 2 (2 credits)
- CHM 1045L - General Chemistry and Qualitative Analysis Lab (2 credits)
- CHM 1046 - General Chemistry and Qualitative Analysis (3 credits)
- CHM 1046L - General Chemistry & Qualitative Analysis Lab (2 credits)

#### 11. PROFESSIONAL EDUCATION CORE (18.00 credits)

- EDF 4430 - Measurement and Assessment in Education (3 credits)
- EDG 3321 - General Teaching Skills (3 credits)
- EDG 3443 - Classroom and Behavior Management (3 credits)
- EEX 3071 - Teaching Exceptional and Diverse Populations in Inclusive Settings (3 credits)
- RED 3393 - Differentiated Instruction in Content Reading (3 credits)
- TSL 4324C - ESOL Strategies for Content Area Teachers (3 credits)

#### 12. DISCIPLINE CONTENT (30.00 credits)

- BCH 3023 - Introductory Biochemistry (3 credits)
- BCH 3023L - Introductory Biochemistry Laboratory (2 credits)
- BSC 2020 - Human Biology (3 credits)
- BSC 3930 - Biological Sciences Seminar (1 credit)
- CHM 2200 - Survey of Organic Chemistry (3 credits)
- CHM 2200L - Survey of Organic Chemistry Laboratory (1 credits)
- MCB 2010 - Microbiology (3 credits)
- MCB 2010L - Microbiology Laboratory (2 credits)
- PCB 3043 - Fundamentals of Ecology (3 credits)
- PCB 3060 - Principles of Genetics (3 credits)
- SCE 4362 - Methods of Teaching Science (3 credits)
- SCE 4363 - Advanced Topics in Science Education Practicum (3 credits)

#### 13. STUDENT TEACHING/INTERNSHIP (12.00 credits)

- SCE 4943 - Seminar in Science Education (3 credits)
- SCE 4945 - Internship in Science Education (9 credits)

\* End of Program Sheet \*