### SCIENCE EDUCATION

#### General Education Requirements
- **3** THEO 110 Intro to Christianity
- **3** BLIT 210 Christian Scriptures
- **3** CMIN 310 Christian Living
- **2-3** Approved Stewardship Course*
- **6** Approved Humanities Course*
  - Select 3 hours from two different areas: Fine Arts, Literature, Philosophy, Modern Languages
- **3** HIST 200 Western Civilization
- **0-3** Elementary Foreign Language I & II OR approved International Culture Course*

*See [olivet.edu/registrar](http://olivet.edu/registrar) for approved list of courses

#### General Education Requirements (for Teachers)
- **3** COMM 105 Fundamentals of Communication
- **3** ENGL 109 College Writing I **
- **3** ENGL 207 College Writing II (CSE)
- **3** PSCI 223 American Government

**REQUIRED Before Teacher Education Program entry:**
- **2** EDUC 140 Foundations of Multicultural of Ed.**
- **3** EDUC 195 Teacher Education Seminar I**
- **2** EDUC 200 Human Development & Ed. **
- **3** EDUC 280 Gen. Meth. & Assessment **

**REQUIRED After Teacher Education Program entry, before Student Teaching:**
- **3** EDUC 374 Secondary Content Methods
- **3** EDUC 376 Inclusion of Exceptional Students
- **2** EDUC 392 Teacher Ed Seminar II: Clsrm Mgmt

**REQUIRED After Teacher Education Program entry, during Student Teaching:**
- **12** EDUC 486 Student Teaching
- **3** EDUC 493 Teacher Education Seminar III

**Required Supporting Course for Teacher Education:**
- **2** ENGL 335 Teaching Reading in Content Area

**Required Field Experience Hours:**
- **0** EDUC 175 Field Experience I (20')
- **0** EDUC 275 Field Experience II (30')
- **0** EDUC 375 Field Experience III (40')

Minimum Requirements include: 120 hours, 30 of which are upper division (300-400 level) hours, 2.50 institutional and cumulative grade point average (GPA), 2.75 GPA in Major courses, and C- or above grades in all General Education Requirements for Teachers, all Professional Education courses, all Required Supporting courses, and all courses applied toward endorsements.

**Note:** Requirements for Middle School and all other endorsements are available in the School of Education.

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### Major: 59-66 hours

#### Required Core Courses:
- **4** BIOL 125 Biology I
- **4** BIOL 126 Biology II
- **4** CHEM 103 General Chemistry I
- **4** CHEM 104 General Chemistry II
- **4** ESS 105 The Dynamic Earth
- **3** ESS 340 Global Natural Resources
- **3-4** MATH 120 Intro to Statistics ** OR
  - MATH 241 Statistics **
- **4** PHYS 121 College Physics I OR
- **4** PHYS 201 General Physics I

**Plus one of the following concentrations:**

#### A. Biology Concentration
- **4** BIOL 246 Anatomy & Physiology I
- **4** BIOL 247 Anatomy & Physiology II
- **4** BIOL 319 Genetics
- **4** ENVI 215 Environmental Science & Society
- **4** BIOL 352 Advanced Botany OR
- **4** BIOL 367 Animal Behavior OR
- **4** BIOL 368 Vertebrate Natural History OR
- **4** BIOL 370 Ecology
- **4** ESS 150 Planetary Astronomy OR
- **4** ESS 151 Stellar & Galactic Astronomy or
- **4** PHYS 122 College Physics II OR
- **4** PHYS 202 General Physics II

#### B. Chemistry Concentration
- **5** CHEM 311 Organic Chemistry I
- **5** CHEM 312 Organic Chemistry II
- **4** CHEM 335 Biochemistry
- **0.5** CHEM 495 Seminar in Chemistry
- **4** MATH 147 Calculus I
- **3-4** CHEM 301 Quantitative Analysis OR
- **4** CHEM 320 Inorganic Chemistry OR
- **4** CHEM 482 Physical Chemistry Thermodynamics
- **4** ESS 150 Planetary Astronomy OR
- **4** ESS 151 Stellar & Galactic Astronomy OR
- **4** PHYS 122 College Physics II OR
- **4** PHYS 202 General Physics II

#### C. Earth/Space Concentration
- **3** ESS 109 The Earth’s Weather
- **4** ESS 150 Planetary Astronomy
- **4** ESS 151 Stellar & Galactic Astronomy
- **3** ESS 200 Earth’s Natural History
- **3** ESS 222 Earth’s Landscapes/Natural Hazards
- **4** ESS 366 Geologic Structures and Tectonics
- **4** ESS 385 Chemistry of Earth Processes
- **4** PHYS 122 College Physics II OR
- **4** PHYS 202 General Physics II

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See reverse side for additional recommendations:

*Pending ISBE Approval

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Revised 9.23.20
Recommended Supporting Courses for Teacher Ed:

- 3 CDEV 360 Child Family Relations
- 3 EDUC 214 Early Adolescent Development
- 3 EDUC 333 Multicultural Classroom
- 3 SPED 321 Emotional/Behavioral Supports

Recommended Supporting Courses for Earth/Space:

- 4 MATH 147 Calculus I
- 4 MATH 148 Calculus II