

## SCIENCE EDUCATION

NAME	I.D.#	Expected Grad Date	B.S. Degree
<b>General Education Requirements</b>		<b>Major: 59-66 hours</b>	
<u>3</u>	THEO 110 Intro to Christianity	<u>4</u>	<b>Required Core Courses:</b>
<u>3</u>	BLIT 210 Christian Scriptures	<u>4</u>	BIOL 125 Biology I
<u>3</u>	CMIN 310 Christian Living	<u>4</u>	BIOL 126 Biology II
<u>2-3</u>	Approved Stewardship Course* _____	<u>4</u>	CHEM 103 General Chemistry I
<u>6</u>	Approved Humanities Course* _____	<u>4</u>	CHEM 104 General Chemistry II
	Select 3 hours from <u>two</u> different areas:	<u>4</u>	ESS 105 The Dynamic Earth
	<b>Fine Arts, Literature, Philosophy,</b>	<u>3</u>	ESS 340 Global Natural Resources
	<b>Modern Languages</b> _____	<u>3-4</u>	MATH 120 Intro to Statistics ** <b>OR</b>
<u>3</u>	HIST 200 Western Civilization		MATH 241 Statistics **
<u>0-3</u>	Elementary Foreign Language I & II <b>OR</b>	<u>4</u>	PHYS 121 College Physics I <b>OR</b>
	approved International Culture Course*		PHYS 201 General Physics I
*See <a href="http://olivet.edu/registrar">olivet.edu/registrar</a> for approved list of courses		<b>Plus one of the following concentrations:</b>	
<b>General Education Requirements (for Teachers)</b>		<b>A. Biology Concentration</b>	
<u>3</u>	COMM 105 Fundamentals of Communication	<u>4</u>	BIOL 246 Anatomy & Physiology I
<u>3</u>	ENGL 109 College Writing I **	<u>4</u>	BIOL 247 Anatomy & Physiology II
<u>3</u>	ENGL 207 College Writing II (CSE)	<u>4</u>	BIOL 319 Genetics
<u>3</u>	PSCI 223 American Government	<u>3-4</u>	ENVI 215 Environmental Science & Society <b>OR</b>
<b>REQUIRED Before Teacher Education Program entry:</b>			BIOL 215 Environmental Science & Society
<u>2</u>	EDUC 140 Foundations of Multicultural of Ed.**	<u>4</u>	MATH 131 Algebra & Trigonometry <b>OR</b>
<u>3</u>	EDUC 195 Teacher Education Seminar I**		MATH 147 Calculus I
<u>2</u>	EDUC 200 Human Development & Ed. **	<u>4</u>	BIOL 352 Advanced Botany <b>OR</b>
<u>3</u>	EDUC 280 Gen. Meth. & Assessment **		BIOL 367 Animal Behavior <b>OR</b>
<b>REQUIRED After Teacher Education Program entry, before Student Teaching:</b>		<u>4</u>	BIOL 368 Vertebrate Natural History <b>OR</b>
<u>3</u>	EDUC 376 Inclusion of Exceptional Students		BIOL 370 Ecology
<u>3</u>	EDUC 383 Science Methods Middle/Sec School	<u>4</u>	ESS 150 Planetary Astronomy <b>OR</b>
<u>2</u>	EDUC 392 Teacher Ed Seminar II: Clsrm Mgmt		ESS 151 Stellar & Galactic Astronomy <b>OR</b>
<b>REQUIRED After Teacher Education Program entry, during Student Teaching:</b>			PHYS 122 College Physics II <b>OR</b>
<u>12</u>	EDUC 486 Student Teaching		PHYS 202 General Physics II
<u>3</u>	EDUC 493 Teacher Education Seminar III	<b>B. Chemistry Concentration</b>	
<b>Required Supporting Course for Teacher Education:</b>		<u>5</u>	CHEM 311 Organic Chemistry I
<u>2</u>	ENGL 335 Teaching Reading in Content Area	<u>5</u>	CHEM 312 Organic Chemistry II
<b>Required Field Experience Hours:</b>		<u>4</u>	CHEM 335 Biochemistry
<u>0</u>	EDUC 175 Field Experience I (20†)	<u>0.5</u>	CHEM 495 Seminar in Chemistry
<u>0</u>	EDUC 275 Field Experience II (30†)	<u>4</u>	MATH 147 Calculus I
<u>0</u>	EDUC 375 Field Experience III (40†)	<u>3-4</u>	CHEM 301 Quantitative Analysis <b>OR</b>
			CHEM 320 Inorganic Chemistry <b>OR</b>
		<u>4</u>	CHEM 482 Physical Chemistry Survey
			ESS 150 Planetary Astronomy <b>OR</b>
		<u>4</u>	ESS 151 Stellar & Galactic Astronomy
			PHYS 122 College Physics II <b>OR</b>
		<u>4</u>	PHYS 202 General Physics II
		<b>C. Earth/Space Concentration</b>	
		<u>3</u>	ESS 109 Earth's Oceans & Atmosphere
		<u>4</u>	ESS 150 Planetary Astronomy
		<u>4</u>	ESS 151 Stellar & Galactic Astronomy
		<u>3</u>	ESS 200 Earth's Natural History
		<u>3</u>	ESS 222 Earth's Landscapes/Natural Hazards
		<u>4</u>	ESS 366 Geologic Structures and Tectonics
		<u>4</u>	ESS 385 Chemistry of Earth Processes
		<u>4</u>	MATH 131 Algebra & Trigonometry <b>OR</b>
			MATH 147 Calculus I
		<u>4</u>	PHYS 122 College Physics II <b>OR</b>
			PHYS 202 General Physics II

**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.

† Required Field Experience hours

\*\* Required before entering Teacher Education Program

See reverse side for additional recommendations

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**Recommended Supporting Courses for Teacher Ed:**

- 3 CDEV 365 Child, Family and Community 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