

**CURRICULUM GUIDE**  
**Earth Science/Teaching, B.S.**  
**2015-2016**

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The schedule below is an **EXAMPLE** of how you can arrange your class schedule.  
 Please consult your advisor for specific changes that may need to be made.

	Fall Semester		Spring Semester	
<b>Freshman Year</b>	ASO 100	1	EDF 203	3
	GLY 102	3	CED 100	0.5
	⊕ <sup>6</sup> MAT 120 (fulfills Gen. Ed. 2)	3	⊕ <sup>6</sup> SED 104 (fulfills Gen. Ed. 6)	3
	⊕ <sup>6</sup> Gen. Ed. 1A (ENG 101)	3	GLY 109	3
	Gen. Ed. 3A (Arts)	3	⊕ <sup>6</sup> Gen. Ed. 1B (ENG 102)	3
	Wellness	3	Gen. Ed. 5A (History)	3
	<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>15.5</b>
<b>Sophomore Year</b>	AST 130 <i>or</i> 135	3	EDF 219	3
	⊕ <sup>6</sup> BIO 100, 101, 102 <i>or</i> 112 (fulfills Gen. Ed. 4)	3-4	CED 200	0.5
	GEO 115	3	AST 335	3
	GLY 104	3	⊕ <sup>6</sup> PHY 102 <i>or</i> 131 (fulfills Gen. Ed. 4)	3-5
	⊕ <sup>6</sup> Gen. Ed. 1C (Oral Comm.)	3	Gen. Ed. 3B (Humanities)	3
	⊕ <sup>6</sup> 30 hrs complete + apply to professional education program		† Core Elective	3-4
	<b>TOTAL</b>	<b>15-16</b>	<b>TOTAL</b>	<b>15.5-18.5</b>
<b>Junior Year</b>	EDF 204	2	EDF 413	3
	CED 300	0.5	EMS 490 (spring only)	3
	EMS 300W	3	CED 400	0.5
	GLY 303	3	GLY 210, CHE 100, 101/101L, <i>or</i> 111/111L	3-4
	† Core Elective	3-4	† Core Elective	3-4
	Free Elective	3	Free Elective	0-3
	<b>TOTAL</b>	<b>14.5-15.5</b>	<b>TOTAL</b>	<b>12.5-15.5</b>
<b>Senior Year</b>	ESE 561	3	CED 499 (ACCT)	9
	CED 450 (fall only)	1	EMS 474	3
	SED 402	2		
	Gen. Ed. 6 (Diversity)	3		
	Gen. Ed. 5B (Soc. & Behav. Sci.)	3		
	Free Elective	0-4		
	<b>APPLY FOR STUDENT TEACHING</b>			
<b>TOTAL</b>	<b>12-16</b>	<b>TOTAL</b>	<b>12</b>	
<b>TOTAL HOURS TO DEGREE COMPLETION</b>				<b>120</b>

\* **PREREQUISITES:** Consult with your advisor and/or the University catalog regarding prerequisites for upper division GEO, GLY and EDU courses. MAT 114 or higher.  
 † Student must have completed 30 hours by the end of the second semester and apply for admission to Professional Education Program.  
 ‡ In order to take more than 18 hours per semester, you must seek approval from the Office of the Associate Dean in Roark 106.  
 ⊕ Must be completed before enrolling in CED 300 and applying to the Teacher Ed. program.

**Upper division courses:** All students are required to have a minimum of 42 hrs. upper division (300 level or above) courses distributed throughout Major/Supporting/Gen Ed/Free Electives categories.

Refer to the University Catalog at <http://www.catalogs.eku.edu/> regarding University and General Education Requirements. All baccalaureate degree seeking students who enter the University are required to successfully complete one writing intensive course following completion of the ENG 102, ENG 105, or HON 102/103. Writing intensive courses are designated with the suffix "W" following the course prefix and number (e.g. HUM 300W).

**Applied Critical & Creative Thinking (ACCT) Requirement:** Earth Sciences Teaching majors will fulfill ACCT with CED 499. (Credit hours are included in Professional Education requirements below.)

Course Number	Course Name
<b>GENERAL EDUCATION &amp; UNIVERSITY REQUIREMENTS (40)</b>	
ASO 100	Student Success Seminar (1)
<b>CORE COURSE REQUIREMENTS (30-33)</b>	
AST 130 <i>or</i> 135	Introductory Astronomy (no lab)
AST 135	Introductory Astronomy (lab)
AST 335	Stars, Galaxies & Cosmology
GEO 115	Hollywood Weather
GLY 102	Earth Science for Teachers
GLY 104	The World Ocean
GLY 109	Great Moments in Earth History
GLY 303	Environmental Geoscience
† PLUS THREE (3) COURSES selected from the following:	
GEO 315	Meteorology
GLY 309	Mineralogy (4)
GLY 315	Hydrology
GLY 408	Process Geomorphology
GLY 410	Structural Geology-Tectonics (4)
GLY 415	Sedimentary Geology (4)
GLY 420	Stratigraphy and Paleontology (4)
GLY 482	Paleoclimate
GLY 490	Applied Geology: Case Studies
<b>SUPPORTING COURSE REQUIREMENTS (3-7) ⊕</b>	
⊕ <sup>6</sup> BIO 100 <i>or</i> 101 <i>or</i> 102 <i>or</i> 112	Introductory Biology
⊕ <sup>6</sup> BIO 101 <i>or</i> 102 <i>or</i> 112	Essentials of Biology
⊕ <sup>6</sup> BIO 102 <i>or</i> 112	Inquiry Biology for Teachers
⊕ <sup>6</sup> BIO 112	Ecology and Evolution (4)
CHE 100 <i>or</i> 101 <i>and</i> 101L	Inquiry Chemistry for Teachers
{ CHE 101 <i>and</i> 101L } <i>OR</i> { CHE 111 <i>and</i> 111L }	Introductory Chemistry I
{ CHE 101 <i>and</i> 101L } <i>OR</i> { CHE 111 <i>and</i> 111L }	Introductory Chemistry Lab I (1)
{ CHE 101 <i>and</i> 101L } <i>OR</i> { CHE 111 <i>and</i> 111L }	General Chemistry I
{ CHE 101 <i>and</i> 101L } <i>OR</i> { CHE 111 <i>and</i> 111L }	General Chemistry Lab I (1)
⊕ <sup>6</sup> MAT 120	Trigonometry
⊕ <sup>6</sup> PHY 102 <i>or</i> 131	Inquiry Physics for Teachers
⊕ <sup>6</sup> PHY 131	College Physics I (5)
<b>PROFESSIONAL EDUCATION REQUIREMENTS (37)</b>	
EDF 203	Philosophical & Historical Found. of Ed.
EDF 204	Emerging Instructional Technologies (2)
EDF 219	Human Development and Learning
EDF 413	Assessment in Education
EMS 300W	Curriculum & Instructional Design
EMS 474	Teaching Content Reading
EMS 490	Classroom & Behavior Management in P-12
ESE 561	Teaching Science in the Secondary Schools
⊕ <sup>6</sup> SED 104	Introduction to Special Education
SED 402	Exceptional Learners in Inclusive Classrooms (2)
PLUS TWELVE (12) HOURS of Clinical Experiences to include:	
CED 100	Clinical I: Intro to the Education Prof. (.5)
CED 200	Clinical II: Understanding the Learner (.5)
CED 300	Clinical III: curriculum and Instruct. Des. (.5)
CED 400	Clinical IV: Diagnosis & Perception (.5)
CED 450	Clinical V: Practicing Teaching (1)
CED 499	Supervised Student Teaching P-12 (9)
<b>FREE ELECTIVES (3-10)</b>	

All courses listed above are worth 3 credit hrs. unless otherwise noted.

⊕<sup>6</sup> Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.