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.

### CURRICULUM GUIDE
Earth Science/Teaching, B.S. 
2013-2014
Website: www.geoscience.eku.edu 
Email Contact: melissa.dieckmann@eku.edu

Department of Geography and Geology
521 Lancaster Ave.
103 Roark Bldg.
Richmond, KY 40475
859-622-1273

**Fall Semester** | **Spring Semester**
---|---
**Freshman Year** |  
ASO 100 | 1 | EDF 203 | 3
EDF 103 | 1 | EDF 349Q | 0.5
GLY 102 | 3 | GLY 109 | 3
Gen. Ed. 1A (ENG 101) | 3 | Gen. Ed. 1B (ENG 102) | 3
MAT 108 (fulfills Gen. Ed. 2) | 3 | Gen. Ed. 1C (Oral Comm.) | 3
Gen. Ed. 3A (Arts) or 3A/B (Integrated) | 3 | Gen. Ed. 5A (History) | 3
Wellness | 3 |  
**TOTAL** | 17 | **TOTAL** | 15.5

**Sophomore Year** |  
EDF 319 or 319W | 3 | EDF 413 | 3
EDF 349R | 0.5 | EMS 349Q | 0.5
AST 130 or 135 | 3 | AST 330 | 3
BIO 100, 101, 102 or 112 (fulfills Gen. Ed. 4) | 3-4 | Gen. Ed. 3B (Humanities) or 3A/B (Integrated) | 3
CSC 104 or CIS 212 | 3 | PHY 101, 102 or 131 (fulfills Gen. Ed. 4) | 3-5
GEO 115 | 3 | † Core Elective | 3-4

**TOTAL** | 15.5 | **TOTAL** | 15.5

**Junior Year** |  
SED 401 or 4015 | 3 | ESE 490 | 3
GLY 303 | 3 | EMS 349R | 0.5
GLY 304 | 3 | GLY 210, CHE 100/101L, or 111L1 | 3-4
† Core Elective | 3-4 | 111/111L1 | 3-4
Minor Requirement | 3 | Gen. Ed. 5B (Soc. & Behav. Sci.) | 3
Minor Requirement | 3 | † Core Elective | 3
Minor Requirement | 3 | Gen. Ed. 6 (Diversity) | 3

**TOTAL** | 18-19 | **TOTAL** | 18.5

**Senior Year** |  
ESE 561 | 3 | EMS 499 (ACCT) | 12
ESE 499 | 1 |  
Minor Requirement | 3 |  
Minor Requirement | 3 |  
Minor Requirement | 3 |  
Gen. Ed. 6 (Diversity) | 3 |  
**TOTAL** | 16 | **TOTAL** | 12

† Registering for more than 18 hours a semester requires approval from the Assistant Dean of Student Affairs in the College of Arts & Sciences. Students should meet with their Advisor to obtain appropriate forms and signatures before attempting to register for more than 18 hours.

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

Refer to the University Catalog at [http://www.catalogs.eku.edu/](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 ESE 499. (Credit hours are included in Professional Education requirements below.)

**Course Name** | **Number**
---|---
**CORE COURSE REQUIREMENTS** |  
AST 130 or 135 | Introductory Astronomy (no lab)
AST 135 | Introductory Astronomy (lab)
AST 330 | Stars, Blackholes: the Cosmos
GEO 115 | Hollywood Weather
GLY 102 | Earth Science for Teachers
GLY 109 | Great Moments in Earth History
GLY 303 | Environmental Geoscience
GLY 304 | The World Ocean
† PLUS THREE (3) COURSES selected from the following:
  - GEO 315 | Meteorology
  - GLY 309 | Mineralogy
  - GLY 315 | Hydrology
  - GLY 408 | Process Geomorphology
  - GLY 410 | Structural Geology-Tectonics
  - GLY 415 | Sedimentary Geology
  - GLY 420 | Stratigraphy and Paleontology
  - GLY 482 | Paleoclimate
  - GLY 490 | Applied Geology: Case Studies

**MINOR REQUIREMENT** |  
A teaching minor (16-21 hours) in biology, chemistry, mathematics, or physics is required. (These minors may be coupled with this science teaching major to allow dual certification).

**SUPPORTING COURSE REQUIREMENTS** |  
BIO 100 or 101 | Essentials of Biology
BIO 102 or 103 | Inquiry Biology for Teachers
BIO 112 | Ecology and Evolution
GLY 210 or 210W | Introduction to Geochemistry
CHE 100 or 101 | Introductory Chemistry I
CHE 101L or 101L1 | Introductory Chemistry Lab I
CHE 111 or 111L | General Chemistry I
CHE 111L | General Chemistry Lab I
MAT 108 | Trigonometry
PHY 101 or 102 | Concepts of the Physical World
PHY 102 or 103 | Physics for Teachers
PHY 131 | College Physics I
CSC 104 or 105 | Computer Literacy with Software Apps.
CIS 212 | Intro. to Computer Information Systems

**PROFESSIONAL EDUCATION REQUIREMENTS** |  
EDF 103 | Introduction to Education
EDF 203 | Philo. & Historical Foundation of Ed.
EDF 319/319W | Human Development and Learning
EDF 413 | Assessment in Education
SED 401/401S | Exceptional Learners in Incl. Classrooms
ESE 561 | Teaching Science in the Sec. School
EMS 499 | Supervised Student Teaching P-12
† PLUS THREE (3) HOURS of Applied Learning Field Experiences to include:
  - EDF 349Q | Applied Learning in Education I
  - EDF 349R | Applied Learning in Education II
  - EMS 349Q | Applied Learning: Edu. Assessment
  - ESE 349 | Applied Learning: Secondary Teaching
  - ASO 100 | Student Success Seminar

Produced by the College of Arts & Sciences 2013-14