

# GEOGRAPHY MAJOR: EARTH SCIENCE EDUCATION CONCENTRATION

## Requirements for a Major

Minimum requirement for the major is completion of a six-course (18 credit) core curriculum and one of five concentrations. Students will declare a concentration in either General Geography, Environmental Studies, Geographic Information Systems, Earth System Science, or Earth Science Education. Study Away/Study Abroad is strongly encouraged for geography majors.

Code	Title	Credits
<b>Core Courses (18 credits)</b>		
GS-101 or EV-150	Physical Geography Environmental Science	3
GE-102	Human Geography	3
GS-140	Physical Geology	4
GS-165	Geographic Information Systems I	4
GE-200	Geography Literature Seminar	1
GE/GS-400	Geography Seminar	3
<b>Requirements for the Concentration in Earth Science Education (48 credits)</b>		
<i>Ancillary requirements (may apply to LASC requirements)</i>		
MA-190	Pre-calculus (or any MA course at 200 level or above)	4
BI-140	Introduction to Organismal Biology	4
BI-202	Principles of Ecology	4
PY-101	Introduction to Astronomy	3
Select one of the following:		8
PY-221 & PY-222	General Physics I and General Physics II (8)	
PY-241 & PY-242	Physics I (Mechanics) and Physics II ( Electricity, Magnetism and Optics ) (8)	
<i>Required courses</i>		
GS-110	Meteorology	3
GS-225	Oceanography	3
GS-250	Hydrology	3
GS-270	The Sedimentary Record	4
<i>Electives</i>		
4 earth science electives at the 200+ level, including one earth science course at the 300+ level. PY-217 and PY-250 may be counted towards this requirement. No more than one geography (GE) or geospatial course can be counted toward this requirement		12
<b>Total Credits</b>		<b>66</b>

## Geography Major: Earth Science Education concentration

### Sample Timeline for Completion of Degree

#### Year One

Semester One		Credits
LASC	First-Year Seminar (FYS)	3
EN-101	College Writing I	3
PY-101	Introduction to Astronomy (LASC: NSP)	3

GS-101 or EV-150	Physical Geography or Environmental Science	3
LASC	LASC Elective (CA) <sup>1</sup>	3
<b>Credits</b>		<b>15</b>

#### Semester Two

EN-102	College Writing II	3
LASC	LASC Elective (CON) <sup>1</sup>	3
GS-165	Geographic Information Systems I	4
GE-102	Human Geography (LASC: HBS)	3
GS-140	Physical Geology (LASC: LAB)	4
<b>Credits</b>		<b>17</b>

#### Year Two

##### Semester Three

GS-110	Meteorology	3
GS-230	Biogeography	3
BI-140	Introduction to Organismal Biology	4
PY-250	Observational Astronomy	3
LASC	LASC Elective (DIV) <sup>1</sup>	3
<b>Credits</b>		<b>16</b>

##### Semester Four

GS-210	Geomorphology	4
GS-225	Oceanography	3
MA-180	Introduction to Functions (if needed (LASC: QR); or take BI-202)	3
LASC	LASC Elective (ICW) <sup>1</sup>	3
LASC	LASC Elective (GP) <sup>1</sup>	3
<b>Credits</b>		<b>16</b>

#### Year Three

##### Semester Five

GE-200	Geography Literature Seminar	1
GS-250	Hydrology	3
MA-190	Pre-calculus (LASC: QR)	4
LASC	LASC Elective (TLC) <sup>1</sup>	3
GS 2XX+:Earth Science Elective		3
<b>Credits</b>		<b>14</b>

##### Semester Six

GS 2XX+	Earth Science Elective	3
CH-112	Survey of Chemistry	4
BI-202	Principles of Ecology	4
LASC	LASC Elective (USW) <sup>1</sup>	3
Minor/Elective		3
<b>Credits</b>		<b>17</b>

#### Year Four

##### Semester Seven

GS 3xx+	Earth Science Elective	3
PY-221	General Physics I	4
GS-270	The Sedimentary Record	4
SELECT	Minor/Elective	3
SELECT	Minor/Elective	3
<b>Credits</b>		<b>17</b>

##### Semester Eight

GS-400	Senior Seminar	3
GS 2xx+	Earth Science Elective	3
SELECT	Minor/Elective	3
SELECT	Minor/Elective	3

PY-222	General Physics II	4
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>128</b>

<sup>1</sup> The sequence of LASC courses marked with <sup>1</sup> is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Students are required to meet with their academic advisor to review their courses for the upcoming semester. A minimum of 120 credits is required for graduation. First-year and transfer students with 45 or fewer credits at the time of admission shall complete two academic programs (a major/major or major/minor) to qualify for graduation. For more information, please view the MajorPlus section of this catalog.