

The BA degree in Earth and Environmental Studies requires the following core courses (24 credits):

**Core required courses (16 credits)**

SES 121/123 Earth Solar Sys & Universe (4)  
GLG 305 Dynamic Earth (3)  
GLG 325 Oceanography (3)  
GLG 327 Earth's Critical Zone (3)  
GLG 464 Solving Environmental Problems (3)

**Plus, choose TWO from this list (8 credits)**

GLG 101/103 Intro to Geology I (4)  
GLG 102/104 Historical Geology (4)  
GLG 108 Water Planet (4)  
GLG 110/111 Dangerous World (4)  
SES 106 Habitable Worlds (4)  
SES 122/124 History of Earth & Solar Sys (4)  
SES 141 Energy in Everyday Life (4)

**Supporting Mathematics and Related Science Courses<sup>1</sup> (11 credits)**

**One Math course:**

MAT 170 Pre-Calculus (3) or  
MAT 210 Brief Calc (3) or  
MAT 251 Calc for Life Sci (3)

**One Chemistry course:**

CHM 101 Introductory Chem (4) or  
CHM 113 Gen Chem I (4) or  
CHM 114 Gen Chem for Engrs (4)

**AND one related science course from the following:**

BIO 100 The Living World (4) or  
BIO 182 General Biology II (4) or

PHY 101 Intro Physics (4) or  
PHY 111/113 Gen Physics w/lab (4)

<sup>1</sup> MAT 265 or 270, CHM 113/116, BIO 181/182, and/or PHY 121/122 may be required for some upper-division electives, but the degree can be completed without any of these "intensive science" options.

This degree can be completed with the minimum supporting mathematics and related science courses specified above, but students who want to take a more "science intensive" approach to the program are able to do so. This flexible degree (50 credits total) leaves ample room for completing additional courses if needed.

**Upper Division Electives (15 credits)**

Consists of five upper division electives (3 credits each)

At least two of these five courses need to be 400-level classes.

Please see separate "List of Approved Upper-Division Electives" on the SESE website for specific details.

**Important Notes:**

- Students must receive a grade of "C" or better in all of the above courses in order for them to count toward the major.
- The major map represents the official catalog for the degree.
- Substitutions for any of the requirements above must be approved by a SESE advisor and the student must notify the advisor if substitutions are not noted on the DARS correctly.
- Students must complete a foreign language as part of the BA degree (through level 202).