

The BA degree in Earth and Environmental Studies requires the following major courses (52 credits):

**Core required courses (24 credits)**

SES 121 Earth Solar System & Universe (3) and SES 123 Earth, Solar System & Universe Laboratory (1)  
GLG 108 Water Planet (4)  
GLG 110 Dangerous World (3) and GLG 111 Dangerous World Laboratory (1)  
GLG 305 Dynamic Earth (3)  
GLG 325 Oceanography (3)  
GLG 327 Earth's Critical Zone (3)  
GLG 464 Solving Environmental Problems (3)

**Supporting Mathematics and Related Science Courses\* (13 credits)**

MAT 170 Pre-Calculus (3)  
CHM 101 Introductory Chem (4) OR CHM 113 Gen Chem I (4) OR CHM 114 Gen Chem for Engrs (4)  
SES 220 Biology of a Changing Earth (3)  
SES 225 Global Biogeochemical Cycles (3)

\*Higher level MAT, CHM, BIO and/or PHY classes may be required for some upper-division electives, but the degree can be completed without any of these “intensive science” options.

**Upper Division Electives (15 credits)**

- Students must take at least 5 upper division elective classes (3 credits each).
- At least 2 of the 5 courses need to be 400-level classes.
- Please see separate List of Pre-approved Upper-Division Electives on the [Undergraduate Forms and Resources page](#) of the SESE website for specific details (click on “Major Course Planning Sheets” and scroll down to the BA in Earth & Environmental Studies section to find the approved list of electives).

**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 pre-approved by a SESE advisor and/or the SESE Undergraduate Committee. The student must notify the advisor if substitutions are not noted on the DARS correctly.
- Students must complete a second language as part of the BA degree (through level 202).
- 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 leaves ample room for completing additional courses if needed.