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](http://example.com) 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.