The BS degree in Earth and Space Exploration requires the following core courses (21 credits):

- SES 121 Earth, Solar Sys & Universe I (3)
- SES 123 Earth, Solar Sys & Universe Lab I (1)
- Select one set:
  - SES 122 Earth, Solar Sys, & Univ II (3)
  - SES 124 Earth, Solar Sys, & Univ Lab II (1) OR
- SES 126 Exploration of the Universe (3)
- SES 128 Exploration of the Universe Lab (1)
- SES 230 Coding for Exploration (CS) (3)
- SES 350 Engr Sys & Exper Prob Solving (3)
- SES 401 SESE Colloquium (1)
- SES 410 Senior Exploration Project I (3)
- SES 411 Senior Exploration Project II (3)

In addition, FOUR Branch Courses from the following list must be taken (12 credits):

- AST 321 Intro Planetary and Stellar Astr (3)
- AST 322 Intro Galactic and Extragalactic Astr (3)
- GLG 310 Structural Geology (3)
- GLG 321 Mineralogy (3)
- GLG 418 Geophysics (3)
- GLG 424 Petrology (3)
- GLG 471 Hydrology (3)
- GLG 481 Geochemistry (3)
- GLG 490 Remote Sensing (3)
- GLG 491 Essentials of Astrobiology (3)
- GLG 330 Practical Electronics & Instrument (4)
- SES 405 Exploration Sys Engineering (3)

Plus TWO Upper-division Elective courses from SES/GLG/AST topics (6 credits):

- Any 3-credit, 300 or 400 level course with an SES, GLG, or AST prefix can count toward the SES/GLG/AST electives area.

Required courses in other related fields include the following (24 credits):

- CHM 114 General Chemistry for Engineers (4)*
- MAT 265 Calculus for Engineers I (3) or MAT 270 Calculus with Analytic Geometry I (4)
- MAT 266 Calculus for Engineers II (3) or MAT 271 Calculus with Analytic Geometry II (4)
- MAT 267 Calculus for Engineers III (3) or MAT 272 Calculus with Analytic Geometry III (4)
- MAT 275 Modern Differential Equations (3)
- PHY 121 University Physics I: Mechanics (3)
- PHY 122 University Physics Laboratory I (1)
- PHY 131 University Physics II: Electricity and Magnetism (3)
- PHY 132 University Physics Laboratory II (1)

*Students may substitute both CHM 113 and CHM 116 for CHM 114

IMPORTANT NOTES:

- Students must receive C's or better in all of the above courses in order for them to count towards the major.
- The major map for the student's catalog year 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 or other requirements are not showing up on the DARS correctly.