The BS degree in Earth and Space Exploration with a concentration in Astrobiology & Biogeosciences requires the following core courses (26 credits):

- SES 121 Earth, Solar Sys & Universe I (3) and SES 230 Coding for Exploration (CS) (3)
- SES 123 Earth, Solar Sys & Universe Lab I (1) and SES 311 Essentials of Astrobiology (3)
- Select one set:
  - SES 122 Earth, Solar Sys, & Univ II (3) and GLG 321 Mineralogy (3)
  - SES 124 Earth, Solar Sys, & Univ Lab II (1) OR GLG 481 Geochemistry (3)
- SES 126 Exploration of the Universe (3) and SES 410 Senior Exploration Project I (3)
- SES 128 Exploration of the Universe Lab (1)
  - SES 411 Senior Exploration Project II (3)

In addition, 6 credits of Upper-division Electives from AST/GLG/SES topics are required. Select electives from the following or substitute with advisor approval:

- AST 321 Intro Planet. & Stellar Astrophysics (3)
- BIO 320 Fundamentals of Ecology (3)
- BIO 340 General Genetics (3)
- BIO 345 Organic Evolution (3)
- GLG 404 Fundamentals Planetary Geology (3)
- GLG 430 Paleontology (3)
- GLG 435 Sedimentology and Stratigraphy (3)
- GLG 460 Astrobiology (3)
- GLG 481 Geochemistry (3)
- GLG 485 Meteorites and Cosmochemistry (3)
- GLG 489 Field Geochemistry (L) (3)
- GLG 490 Remote Sensing (3)
- GLG 490 Remote Sensing (3)
- SES 350 Eng Sys & Exper Problem Solving (3)

Required courses in other related fields include the following (33 credits):

- BIO 181 General Biology I (4)
- BIO 182 General Biology II (4)
- CHM 113 General Chemistry I (SQ) (4)
- CHM 116 General Chemistry II (SQ) (4)
- MAT 265 Calculus for Engineers I (3) or MAT270 Calc with Analytic Geometry I (4)
- MAT 266 Calculus for Engineers II (3) or MAT271 Calc with Analytic Geometry II (4)
- MAT 267 Calculus for Engineers III (3) or MAT272 Calc with Analytic Geometry III (4)
- PHY 121 University Physics I: Mechanics (SQ) (3) ¹
- PHY 122 University Physics Laboratory I (SQ) (1) ¹
- PHY 131 University Physics II: Electricity and Magnetism (SQ) (3) ²
- PHY 132 University Physics Laboratory II (SQ) (1) ²

¹Both PHY 121 and 122 must be taken to secure SQ credit.
²Both PHY 131 and 132 must be taken to secure SQ credit.

IMPORTANT NOTES:

- Students must receive C’s or better in all of the above courses in order for them to count toward 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 SESE Undergraduate Committee. The student must notify the advisor if substitutions or other requirements are not showing correctly on DARS.