The BS degree in Earth and Space Exploration, Concentration in Astrobiology & Biogeosciences requires the following core courses (26 units)

- SES 100 Introduction to Exploration (3)
- SES 121 Earth, Solar Sys., and Universe I (3)
- SES 122 Earth, Solar Sys., and Universe II (3)
- SES 123 Earth, Solar Sys., and Univ. Lab I (1)
- SES 124 Earth, Solar Sys., and Univ. Lab II (1)
- SES 311 Essentials of Astrobiology (3)
- GLG 321 Mineralogy (3)
- GLG 481 Geochemistry (3)
- GLG 410 Senior Exploration Project I (3)
- SES 411 Senior Exploration Project II (3)

^ A combination of introductory GLG and AST may be substituted for SES 121-124 with advisor approval. Students must consult with a SESE advisor for the approved combinations.

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

- SES 350 Eng Syst & Exp Prob Solving (3)
- GLG 404 Fund. Of Planetary Sci (3)
- GLG 430 Paleontology (3)
- GLG 435 Sedimentology (3)
- GLG 460 Astrobiology (3)
- GLG 461 Geomicrobiology (3)
- GLG 485 Meteorites and Cosmochemistry (3)
- GLG 490 Topics in GLG: Remote Sensing (3)
- GLG 490 Field Geochemistry (3)
- GLG 490/581 Isotope Geochemistry (3)
- AST 321 Intro Planet. and Stellar Astro. (3)
- BIO 320 Fundamentals of Ecology (3)
- BIO 340 General Genetics (3)
- BIO 345 Organic Evolution (3)

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

- 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^1 (3)
- PHY 122 University Physics Laboratory I SQ (1)
- PHY 131 University Physics II: Electricity and Magnetism SQ^2 (3)
- PHY 132 University Physics Laboratory II SQ^2 (1)

^ Both PHY 121 and 122 must be taken to secure SQ credit.

^ Both PHY 131 and 132 must be taken to secure SQ credit.

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 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 or other requirements are not showing up on the DARS correctly

Updated November 14 2013 by BDial