

Catalog Year: 2022-2023

The BS degree in Earth and Space Exploration requires the following core courses (21 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)	SES 350 Engr Sys & Exper Prob Solving (3)
Select one set:	SES 401 SESE Colloquium (1)
SES 122 Earth, Solar Sys, & Univ II (3) and	SES 410 Senior Exploration Project I (3)
SES 124 Earth, Solar Sys, & Univ Lab II (1) OR	SES 411 Senior Exploration Project II (3)
SES 126 Exploration of the Universe (3) and	
SES 128 Exploration of the Universe Lab (1)	

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

AST 321 Intro Planetary and Stellar Astr (3)	GLG 471 Hydrology (3)
AST 322 Intro Galactic and Extragalactic Astr (3)	GLG 481 Geochemistry (3)
GLG 310 Structural Geology (3)	GLG 490 Remote Sensing (3)
GLG 321 Mineralogy (3)	SES 311 Essentials of Astrobiology (3)
GLG 418 Geophysics (3)	SES 330 Practical Electronics & Instrument (4)
GLG 424 Petrology (3)	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)

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.

^{*}Students may substitute both CHM 113 and CHM 116 for CHM 114