

The BS degree in Earth and Space Exploration, Concentration in Geological Sciences requires the following core courses (24 units):

SES 100 Introduction to Exploration (3)	GLG 310 Structural Geology (3)
¹ SES 121 Earth, Solar Sys, & Univ I (3)	GLG 321 Mineralogy (3)
¹ SES 122 Earth, Solar Sys, & Univ II (3)	GLG 400 SESE Colloquium (1)
¹ SES 123 Earth, Solar Sys, & Univ Lab I (1)	GLG 451 Field Geology I (3)
¹ SES 124 Earth, Solar Sys, & Univ Lab II (1)	GLG 452 Field Geology II (3)*

¹For AZ community college transfer students, the full sequence of GLG 101-104 may be substituted for the full sequence of SES 121-124.

*Note: the 2012 and prior versions of this degree require students to take SES410 and either SES411 or GLG452, as well as one less elective course (6 credits total for electives). Students who are in a 2012 or earlier version of this degree may choose to follow the current requirements as outlined on this sheet, and will just need to notify the SESE advising department to make the adjustment on the DARS. Both GLG451 and GLG452 will satisfy the L requirements for general studies.

Two of the following branch courses must be taken (6 units):

GLG 362 Geomorphology (3)	
GLG 418 Geophysics (3)	GLG 435 Sedimentology (3)
GLG 424 Petrology (3)	GLG 471 Hydrology (3)
GLG 430 Paleontology (3)	GLG 481 Geochemistry (3)

Three Upper division GLG electives (9 units):

GLG Elective (3)**
GLG Elective (3)**
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**Courses must be 300 or 400 level and cannot include GLG 300 or 304

Required courses in other related fields include the following (25 Units):

CHM 113 General Chemistry I SQ (4)
CHM 116 General Chemistry II SQ (4)
MAT 265 Calculus for Engineers I (3) or MAT 270
MAT 266 Calculus for Engineers II (3) or MAT 271
MAT 267 Calculus for Engineers III (3) or MAT 272
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)

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**