Catalog Year: 2023-2024

The BS degree in Earth and Space Exploration with a concentration in Geological Sciences requires the following core courses (24 credits):

¹ SES 121 Earth, Solar Sys, & Univ I (3)	GLG 310 Structural Geology (3)
¹ SES 122 Earth, Solar Sys, & Univ II (3)	GLG 321 Mineralogy (3)
¹ SES 123 Earth, Solar Sys, & Univ Lab I (1)	SES 401 SESE Colloquium (1)
¹ SES 124 Earth, Solar Sys, & Univ Lab II (1)	GLG 451 Field Geology I (3)
SES 230 Coding for Exploration (3)	GLG 452 Field Geology II (3)

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

In addition, at least TWO of the following Branch Courses must be taken (6 credits):

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GLG 362 Geomorphology (3)
GLG 418 Geophysics (3)
GLG 424 Petrology (3)
GLG 430 Paleontology (3)
GLG 430 Paleontology (3)
GLG 481 Geochemistry (3)
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Plus THREE Upper-division GLG Elective courses (9 credits)*:

GLG Elective (3)

GLG Elective (3)

GLG Elective (3)

Required courses in related math and science fields (25 credits):

CHM 113 General Chemistry I SQ (4)

CHM 116 General Chemistry II SQ (4)

MAT 265 Calculus for Engineers I (3) or MAT 270 Calculus w/Analytic Geometry I (4)

MAT 266 Calculus for Engineers II (3) or MAT 271 Calculus w/Analytic Geometry II (4)

MAT 267 Calculus for Engineers III (3) or MAT 272 Calculus w/Analytic Geometry III (4)

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 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 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.

^{*}Upper-division courses consist of those at the 300 and 400 level with numbers between 300-499.