

Earth and Space Exploration concentration in Geological Sciences course information

| Course prefix | Course Name | Hrs | When | Prerequisites |
|---------------|--|-----|--------|---|
| SES 121 | Earth, Solar System and Universe | 3 | F | |
| SES 123 | Earth, Solar System and Universe Lab | 1 | F | Pre- or corequisite: SES 121 with C or better if completed |
| SES 122 | History of the Earth and Solar System | 3 | S | SES 121 with C or better |
| SES 124 | History of the Earth and Solar System Lab | 1 | S | Prerequisite: SES 123 with C or better; Pre- or corequisite: SES 122 with C or better if completed |
| SES 130 | Coding for Exploration | 3 | F | Prerequisite: SES 121 with C or better; Pre- or corequisite: MAT 265 or 270 with C or better if completed |
| GLG 310 | Structural Geology | 3 | F | GLG 101 or SES 121 with C or better; MAT 170, 171, 210, 251, 265, or 270 with C or better |
| GLG 321 | Mineralogy | 3 | S | CHM 113 (or both CHM 111 and 117 or 114) with C or better; MAT 170, 210, 265 or 270 with C or better |
| GLG 451 | Field Geology I | 3 | S | Prerequisite: GLG 310 with C or better; Pre- or corequisite: GLG 321 |
| GLG 452 | Field Geology II | 3 | SS | GLG 310; GLG 321; GLG 451 (all with C or better) |
| GLG branch | See list on 2 nd page for suggestions | 6 | F,S | |
| GLG electives | Upper-division GLG or SES electives | 9 | F,S | Must be 300-499 level |
| SES 401 | SESE Colloquium | 1 | F,S | |
| CHM 113 | General Chemistry I | 4 | F,S,SS | CHM 101 with C or better, or Mathematics Placement Test score of 50% or higher, or ALEKS score of 61 or higher, OR Pre- or corequisite(s): MAT 170, 171, 210, 251, 265 or 270 with C or better if completed |
| CHM 116 | General Chemistry II | 4 | F,S,SS | CHM 113, 114, or 117 with C or better |
| MAT 265/270 | Calculus I | 3 | F,S,SS | MAT 170 with C or better, OR Mathematics Placement Test with a score of 60% or higher and the Advanced Mathematics Placement test with a score of 38 or higher, OR ALEKS score of 76 or higher. Credit allowed for MAT 265 or MAT 270 |
| MAT 266/271 | Calculus II | 3 | F,S,SS | MAT 265 or 270 with C or better; Credit is allowed for only MAT 266 or 271 |
| MAT 267/272 | Calculus III | 3 | F,S,SS | MAT 266 or 271 with C or better; Credit is allowed for only MAT 267 or 272 |
| PHY 121 | University Physics I: Mechanics | 3 | F,S,SS | Prerequisite: MAT 265 or 270 with C or better; Pre- or corequisite: MAT 266 or 271 with C or better if completed |
| PHY 122 | University Physics Laboratory I | 1 | F,S,SS | Pre- or corequisite: PHY 121 with C or better if completed |
| PHY 131 | University Physics II: Elec.& Mag. | 3 | F,S,SS | Prerequisite: MAT 266 or 271 with C or better; PHY 121 with C or better; Pre- or corequisite: MAT 267 or 272 with C or better if completed |
| PHY 132 | University Physics Laboratory II | 1 | S,SS | Pre- or corequisite: PHY 131 with C or better if completed |

Select 2 of the following branch options:

| Course prefix | Course Name | Hrs | When | Prerequisites |
|---------------|---------------|-----|------|---|
| GLG362 | Geomorphology | 3 | F | GLG 101 or SES 121 with C or better; MAT 266 or 271 with C or better |
| GLG418 | Geophysics | 3 | F | MAT 272 or MAT 267 with C or better; PHY 131/132 or PHY151 with C or better |
| GLG424 | Petrology | 3 | F | GLG321 w/ C or better |
| GLG430 | Paleontology | 3 | F | GLG 102 or SES 122 with C or better; GLG 104 or SES 124 |
| GLG435 | Sedimentology | 3 | S | GLG 102 or SES 122 with C or better; GLG 321 with a grade of C or better |
| GLG471 | Hydrology | 3 | F | CEE 341 or MAE 340 or GLG 362 with C or better |
| GLG481 | Geochemistry | 3 | S | BCH 341, CHM 341, CHM 346 or GLG 321 with C or better |

Codes for offering: F = fall, S =spring, SS =summer session

A semicolon (;) equals "AND"

Special note: This handout is intended as a helpful tool for scheduling planning. However, students and advisors should consult the course catalog for official course information as pre-requisites and course offerings are constantly evolving.