

Earth and Space Exploration concentration in Geological Sciences course information

Course prefix	Course Name	Hrs	When	Prerequisites
SES100	Introduction to Exploration	3	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher
SES121	Earth, Solar System and Universe I	3	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher
SES123	Earth, Solar System and Universe I-Lab	1	F	Pre / co-req MAT170 or higher or MPT score of 50% or higher AND SES121 (C or better if completed)
SES122	Earth, Solar System and Universe II	3	S	Pre-req: SES121 (C or better)
SES124	Earth, Solar System and Universe II-Lab	1	S	Pre/co-req SES122 (C or better if completed)
GLG310	Structural Geology	3	F	GLG 101 or SES 121 with C or better; MAT 170, 210 or 251 with C or better; Credit is allowed for only GLG 305 or 310
GLG321	Mineralogy	3	S	CHM113 or CHM114 or CHM117/111 AND MAT170 or MAT210 or MAT265 or MAT270; all with C or better
GLG400	SESE Colloquium	1	F,S	
GLG451	Field Geology I	3	S	GLG310 w/C or better, co-req GLG321 (D or better if completed)
GLG452	Field Geology II (or Senior Exploration Project II*)	3	SS	GLG451 (or SES410 if taking SES411)
GLG branch (2)	See list on 2 nd page for suggestions	6		
GLG electives (3)	Various options	9		Must be 300-400 level
CHM113	General Chemistry I	4	F,S,SS	CHM 101 (C or better), Mathematics Placement Test score of 50% or higher, or Pre/Corequisite(s): MAT 170, 171, 210, 251, 265 or 270 (C or better if completed); Credit allowed for CHM113 or 117
CHM116	General Chemistry II	4	F,S,SS	Pre-requisites: CHM 113 or CHM 117, or CHM 114 with C or better. Credit is allowed for only CHM 115, 116 or 118
MAT265/270	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. Credit allowed for MAT 265 or MAT 270
MAT266/271	Calculus II	3	F,S,SS	MAT 265 or 270 with C or better; Credit is allowed for only MAT 266 or 271
MAT267/272	Calculus III	3	F,S,SS	MAT 266 or 271 with C or better; Credit is allowed for only MAT 267 or 272
PHY121	University Physics I: Mechanics	3	F,S,SS	Pre-req MAT265 or MAT270 with a C or better; Pre or Co-req: MAT 266 or MAT 271 (with C or better if completed)
PHY122	University Physics Laboratory I	1	F,S,SS	Pre- or Co-requisite: PHY 121 (with C or better if completed)
PHY131	University Physics II: Elec.& Mag.	3	F,S,SS	MAT 266 or MAT 271 AND PHY 121 (all C or better); Co-req: MAT 267 or MAT 272 (C or better if completed)
PHY132	University Physics Laboratory II	1	S,SS	Pre or Co-req: PHY131 (C or better if completed)

Select 2 of the following branch options:

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 AND 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) with a C or better
GLG435	Sedimentology	3	S	GLG 102 (or SES 122) and 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; Credit is allowed for only CEE 440 or GLG 471 or GLG 490 (Hydrology)
GLG481	Geochemistry	3	S	CHM 341, CHM 346 or GLG 321 with C or better

* Note: the 2012 and prior versions of this degree require students to take SES410 and 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.

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

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.