

Physics B.S. with Geophysics Concentration

Physics B.S. Geophysics Concentration Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy in the Academic Regulations chapter for university requirements of the program as well as Fulbright College requirements.

Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area. Students should consult their advisers.

First Year	Units		
	Fall	Spring	Summer
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Satisfies General Education Outcome 1.1)	3		
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Satisfies General Education Outcome 2.1) ^{1, 2}	4		
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) (Satisfies General Education Outcome 3.4) ¹	4		
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) & CHEM 1101L University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)	4		
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Satisfies General Education Outcome 1.1)		3	
PHYS 2074 University Physics II (ACTS Equivalency = PHYS 2044 Lecture) (Satisfies General Education Outcome 3.4) ¹		4	
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) ¹		4	
GEOS 1113 Physical Geology (ACTS Equivalency = GEOL 1114 Lecture) & GEOS 1111L Physical Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab)		4	
Year Total:	15	15	

Second Year	Units		
	Fall	Spring	Summer
PHYS 2094 University Physics III ¹	4		
MATH 2584 Elementary Differential Equations ^{1, 3}	4		

CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)	4		
GEOS 2313 Mineralogy		3	
PHYS 3613 Modern Physics ^{1, 3}			3
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) ^{1, 3}			4
GEOS 3413 Sedimentary Geology			3
State Minimum Core Social Sciences Requirement (Select a course which satisfies both General Education Outcomes 3.3 and 4.1) ⁴			3
General Elective			1
Year Total:	15		14

Third Year	Units		
	Fall	Spring	Summer
PHYS 3113 Analytical Mechanics ³	3		
GEOS 4223 Stratigraphy and Sedimentation	3		
GEOS 3383	3		
State Minimum Core History or Government Requirement (Satisfies General Education Outcome 4.2)	3		
State Minimum Core Social Sciences Requirement (Satisfies General Education Outcome 3.3) ⁵	3		
GEOS 3514 Structural Geology			4
State Minimum Core Social Sciences Requirement (Satisfies General Education Outcome 3.3) ⁵			3
General Electives		6	
GEOS 4686 Geology Field Camp ³			6
Year Total:	15	13	6

Fourth Year	Units		
	Fall	Spring	Summer
PHYS 4073 Introduction to Quantum Mechanics	3		
GEOS 4433 Geophysics	3		
State Minimum Core Humanities or Fine Arts requirement (as needed) (Select a course which satisfies both General Education Outcomes 3.2 and 5.1 or satisfies 3.1) ^{6, 7}	3		
General Electives	3		
PHYS 3453 Electromagnetic Theory I ³			3
PHYS 4991 Physics Senior Seminar (Satisfies General Education Outcomes 1.2 and 6.1) ³			1
GEOS 4924 Earth System History (ACTS Equivalency = PHSC 1104)			4

State Minimum Core Fine Arts or Humanities Requirement (as needed) (Satisfies General Education Outcome 3.1 or select a course which satisfies both 3.2 and 5.1) ^{7,6}	3
General Electives	4
Year Total:	12 15

Total Units in Sequence: 120

- ¹ Meets 40-hour advanced credit hour requirement. See College Academic Regulations.
- ² Students have demonstrated successful completion of the learning indicators identified for learning outcome 2.1, by meeting the prerequisites for MATH 2554.
- ³ Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations.
- ⁴ The Social Sciences Elective courses which satisfy General Education Outcomes 3.3 and 4.1 include: ANTH 1023, COMM 1023, HDFS 1403, HDFS 2413, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2013, INST 2813, INST 2813H, PLSC 2013, PLSC 2813, PLSC 2813H, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.
- ⁵ The Social Sciences Elective courses which satisfy General Education Outcome 3.3 include: AGECE 1103, AGECE 2103, ANTH 1023, COMM 1023, ECON 2013, ECON 2023, ECON 2143, EDST 2003, HDFS 1403, HDFS 2413, HDFS 2603, HIST 1113, HIST 1113H, HIST 1123, HIST 1123H, HIST 2003, HIST 2013, HIST 2093, HUMN 1114H, HUMN 2114H, INST 2013, INST 2813, INST 2813H, PLSC 2003, PLSC 2013, PLSC 2203, PLSC 2813, PLSC 2813H, PSYC 2003, RESM 2853, SOCI 2013, SOCI 2013H, or SOCI 2033.
- ⁶ The Humanities Elective courses which satisfy General Education Outcomes 3.2 and 5.1 include: CLST 1003, CLST 1003H, CLST 1013, HUMN 1124H, PHIL 2003, PHIL 2003C, PHIL 2003H, PHIL 2103, or PHIL 2103C.
- ⁷ The Fine Arts Elective courses which satisfy General Education Outcome 3.1 include: ARCH 1003, ARHS 1003, COMM 1003, DANC 1003, LARC 1003, MLIT 1003, MLIT 1003H, MLIT 1013, MLIT 1013H, MLIT 1333, THTR 1003, THTR 1013, or THTR 1013H.