

BA: Earth & Planetary Sciences (120 S.H. required to complete the degree)

Name: _____ Adviser: _____



General Education Requirements (44 S.H.)

COMMUNICATION SKILLS (3 S.H.) Choose one of the following: COM 160 Public Speaking, COM 161 Decision Making in Groups, COM 162 Interpersonal Communication or COM 163 Introduction to Communication Skills		
COM:	3	
WRITING INTENSIVE (W) All students must complete at least one writing intensive course. W courses can be found in several disciplines. The credits will be counted in the discipline associated with the course. <i>NOTE: WRT101 does not satisfy the writing intensive requirement.</i>		
Course:	Y/N	
FOREIGN LANGUAGE All Earth & Planetary Science majors must complete a foreign language requirement. This may be done by completing a language at an elementary II level or above. Students who have completed three years of language in high school with at least a C average have satisfied this requirement. (For more info, click the link above.)		
Foreign Language Requirement Met?	Y / N	
HUMANITIES (15 S.H.) Humanities general education courses can be found in Art, Communication, English, Foreign Languages, History, Humanistic Studies, Music, Philosophy, Theatre and Writing. Students may only use one studio course to satisfy this requirement. You must complete courses in at least 3 areas. <i>NOTE: You must complete the foreign language requirement (Elementary II or higher) before counting a foreign language course as humanities credit.</i>		
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
SOCIAL AND BEHAVIORAL SCIENCES (12 S.H.) Courses that satisfy this requirement can be found in Social Sciences (Anthropology, Economics, Political Science, Social Sciences, and Sociology), Non-Western Cultures, and Psychology. <i>You must select courses from at least 2 of the 3 main areas: Social Sciences, Psychology and Non-Western Cultures.</i>		
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
NATURAL SCIENCES, MATHEMATICS & COMPUTER SCIENCE (12 S.H.) Students must complete the courses listed below to satisfy this general education category. <i>NOTE: MAT100 does not satisfy a gen-ed requirement.</i>		
CHE 110 General Chemistry I	4	
CHE 111 General Chemistry II	4	
MAT 171 Calculus with Precalculus II (MAT 170 must be taken to receive credit) or MAT181 Calculus I	4	
HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)		
HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

Major Requirements (58-59 S.H.)

MAJOR CORE COURSES (46-47 S.H.)		
ES 110 Physical Geology	4	
AST 150 General Astronomy	4	
MTR 150 Meteorology	4	
PHY 110 General Physics I	4	
PHY 111 General Physics II	4	
MAT 182 Calculus II	4	
CS 140 Intro to Programming OR CS143 Visual Basic	3 – 4	
ES 210 Intro to Physical Oceanography	4	
AST 231 Introduction to Planetary Sciences	4	
EPS 331 Practicum in Earth & Planetary Science Research	4	
AST 405 Planetary Physics	3	
EPS 450 Senior Research in Earth & Planetary Sciences	4	
MAJOR ELECTIVES (MIN. 12 S.H.) select from the following:		
PHY/ENV 136 Energy	4	
CS 170 Language C++	4	
CS 205 Data Modeling & Database Design or higher course (CS 140, CS 143 or CS 170)	3 – 4	
EPS 220 Seminar in Earth & Planetary Science (may be taken twice)	2 – 4	
MAT 282 Ordinary Differential Equations	3	
MTR 440 Atmospheric Physics & Remote Sensing	4	
EPS 490 Advanced Topics in Earth and Planetary Sciences	3	
FREE ELECTIVES (17-18 S.H.)		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		

Free electives offer an opportunity to complete a minor, study a second language, study abroad, or participate in an internship. Make a plan.

NOTES

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Four-Year Plan This is a sample sequence of courses. Other combinations are possible.



Pre-requisites are in parentheses; see catalog for details.

Class standing by credit: Freshman: 0-29 credits; Sophomore: 30-59 credits; Junior: 60-89 credits; Senior: 90+ credits

FIRST YEAR (28-29 S.H.)	SEMESTER 1 (14 S.H.)			SEMESTER 2 (14-15 S.H.)		
	WRT 101 Composition I or Gen-Ed: Writing Intensive	3		Writing Intensive or Gen Ed: Social and Behavioral Sciences	3	
	Gen Ed: Communication Skills	3		CS 140 Intro to Programming or CS143 Visual Basic (MAT 100 minimum req.)	3 – 4	
	Gen Ed: Humanities (foreign language, if required)	3		Gen Ed: Humanities (foreign language, if required)	4	
	MAT 170* or MAT 171 or MAT 181 Calculus I (appropriate placement)	3		MAT 182 Calculus II (MAT 181 or appropriate placement)	4	
	HPX 177 Fitness for Life	2				

SECOND YEAR (30 S.H.)	SEMESTER 3 (15 S.H.)			SEMESTER 4 (15 S.H.)		
	CHE 110 General Chemistry I (CHE 100 or placement exam)	4		PHY 111 General Physics II (PSY 110)	4	
	AST 150 Astronomy (MAT 100 or equivalent)	4		CHE 111 General Chemistry II (CHE 110)	4	
	PHY 110 General Physics I (MAT 182 and a grade \geq C in PHY 103 or placement exam)	4		Gen Ed: Humanities	4	
	Gen Ed: Social and Behavioral Sciences	3		AST 231 Introduction to Planetary Sciences	3	

THIRD YEAR (30-32 S.H.)	SEMESTER 5 (15 S.H.)			SEMESTER 6 (13-14 S.H.)		
	ES 110 Physical Geology	4		EPS 331 Practicum in Earth & Planetary Science Research (PHY110, 111 and MAT 181 or equivalent)	4	
	Major Elective	4		Major Elective	3 – 4	
	ES 210 Intro to Physical Oceanography (Pre/Co-requisites CS 140 or CS 143 and MAT 181 or equivalent and PHY 111)	4		EPS 331 Practicum in Earth & Planetary Science	4	
	Free Elective	3		Gen Ed: Social and Behavioral Sciences	3	
	Complete a degree audit and plan for application for graduation					

FOURTH YEAR (34 S.H.)	SEMESTER 7 (17 S.H.)			SEMESTER 8 (17 S.H.)		
	Major Elective	4		Major Elective	4	
	AST 405 Planetary Physics (AST 231, MAT 182 or equivalent and PHY 111)	3		EPS 450 Senior Research in Earth & Planetary Science (one 200-level and one-300 level from: ES 210, AST 231 or EPS 220/221 and EPS 331)	4	
	Gen Ed: Humanities	3		Gen Ed: Humanities or Social and Behavioral Sciences	3	
	Free Elective	3		Free Elective	3	
	Free Elective	3		Free Elective	3	

All major requirements have a pre-requisite of at least MAT 100. If you place out of MAT 100 you may begin the Science sequence as it is shown. Initial math and writing placements will determine the actual rotation of courses. Students who have not taken pre-calculus in high school may need to take summer courses to complete this degree in four years.

Major electives:

PHY/ENV 136 Energy

CS 170 Language C++ (CS 140 or 143 or permission of instructor)

CS 205 Data Modeling & Database Design (CS 140 or 143 or 170) or higher course (CS 166 or CS 200 may be taken upon approval)

EPS 220 Seminar in Earth & Planetary Science (may be taken twice) (PHY 103 or equivalent)

MAT 282 Ordinary Differential Equations (MAT 182)

MTR 440 Atmospheric Physics & Remote Sensing (MAT 120, MAT 182 and ES 210)

EPS 490 Advanced Topics in Earth and Planetary Sciences (one 200-level and one-300 level from: ES 210, AST 231 or EPS 220/221 and EPS 331)