

BS: Secondary Education — Earth Science (120 S.H. required to complete the degree)

Name: _____ Adviser: _____



General Education Requirements (48 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>		
Writing Intensive*	Y/N	
FOREIGN LANGUAGE All 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.) Including 3 of 7 categories: Fine and Applied Arts (<i>NOTE: only one studio course accepted toward minimum</i>), Communication, Literature, Humanistic Studies, Philosophy, History, and Foreign Language. NOTE: You must complete the foreign language requirement (Elementary II or higher) before counting Elementary I foreign language courses as Humanities credit.		
Fine/Applied Arts:	3	
HIS 148 American History to 1877 or HIS 149 American History from 1877	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. You must complete 2 of the 3 areas.		
PSY 100 Introduction to Psychology *	3	
Elective:	3	
Elective:	3	
Elective:	3	
NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE (16 S.H.) Students must complete a lab science and two other courses in this category.		
PHY 110 General Physics I	4	
PHY 111 General Physics II	4	
MAT 181 Calculus I	4	
MAT 182 Calculus II	4	
HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)		
HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

*C or better is required for courses. **B or better is required for courses.

NOTES

Major Requirements (71 S.H.)

EARTH SCIENCE MAJOR REQUIREMENTS (36 S.H.) MINIMUM 3.0 G.P.A.		
AST 150 General Astronomy	4	
ES 103 Plant Earth	4	
ES 110 Physical Geology	4	
ES 210 Introduction to Physical Oceanography	4	
MTR 150 Meteorology	4	
Choice: MTR 230 Weather Analysis and Forecasting or EPS 220 Seminar in Earth & Planetary Science I and EPS 221 Seminar in Earth & Planetary Science II	4	
EPS TRACK OPTION (12 S.H.)		
AST 231 Introduction to Planetary Science	4	
EPS 331 Practicum in Earth & Planetary Science	4	
EPS 450 Senior Research	4	
METEOROLOGY TRACK OPTION (12 S.H.)		
MTR 240 Climatology	3	
MTR 310 Atmospheric Thermodynamics	3	
MTR 311 Atmospheric Dynamics	3	
MTR 340 Mesoscale Meteorology & Numerical Forecasting	3	
SECONDARY EDUCATION CERTIFICATION REQUIREMENTS (35 S.H.)		
ED 206 Introduction to Education **	3	
ED 212 Educational Psychology II **	3	
HPX 215 Health Issues in the Schools **	3	
PROFESSIONAL SEMESTER — COMPLETED AS 13 S.H. BLOCK		
EPY 405 Introduction to Special Education**	3	
ED 385 Methods of Teaching in the Secondary Schools**	3	
ED 386 Secondary Education Professional Development School Experience**	1	
ED 440 Integrating Language**	3	
ED 442 Teaching Science in Secondary Schools**	3	
STUDENT TEACHING — COMPLETED AS 13 S.H. BLOCK		
ED 340 Assessment of Teaching Strategies	1	
ED 342 Student Teaching	12	
FREE ELECTIVE (1 S.H.)		
Elective:	1	
EXAMS FOR STATE CERTIFICATION		
Praxis I (or waiver) Required for admittance to program		
Praxis II		
LICENSE		
TK 20		

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

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



Prerequisites 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 (31 S.H.)	SEMESTER 1 (15 S.H.)			SEMESTER 2 (16 S.H.)		
	HPX 177 (lecture and activity)	2		Gen. Ed: MAT 182 Calculus II	4	
	Gen. Ed: HIS 148 American History to 1877 or HIS 149 American History from 1877	3		Gen. Ed: Fine Art	3	
	Gen. Ed: Humanities (foreign language if required)	3		Gen Ed: Humanities (foreign language if required)	3	
	Gen. Ed: MAT 181 Calculus I (MAT 133 or appropriate placement)	4		Gen Ed: Social and Behavioral Sciences	3	
	Gen Ed: Social and Behavioral Sciences	3		Gen Ed: PSY 100 Introduction to Psychology	3	

SECOND YEAR (34 S.H.)	SEMESTER 3 (17 S.H.)			SEMESTER 4 (17 S.H.)		
	Gen Ed: Social and Behavioral Sciences or Free Elective	3		AST 150 General Astronomy (MAT 100 or equivalent)	4	
	Gen. Ed: PHY 110 General Physics I (MAT 182 and a grade \geq C in PHY 103 or placement exam)	4		Gen. Ed: PHY 111 General Physics II (PHY 110)	4	
	Gen. Ed: COM 160, 161, 162 or 163	3		Gen. Ed: Humanities or Free Elective	3	
	ES 103 Planet Earth	4		ED 212 Educational Psychology II (completion of 30 credits of course work and cumulative GPA \geq 3.0)	3	
ED 206 Becoming a Professional Educator (GPA \geq 3.0)	3		HPX 215 Health Issues in the School (30S.H. completed)	3		

THIRD YEAR (33 S.H.)	SEMESTER 5 (16 S.H.)			SEMESTER 6 (13 S.H.)		
	MTR 150 Meteorology	4		ES 110 Physical Geology	4	
	Track Option (prerequisites vary)	4		Free Elective	1	
	Track Option (prerequisites vary)	4		ES 210 Introduction to Physical Oceanography (CS 140 or 143 and MAT 181 or equivalent and PHY 111)	4	
	Track Option (prerequisites vary)	4		MTR 230 Weather Analysis and Forecasting I (MTR 150 and MAT 182) or EPS 220 Seminar in Earth & Planetary Science I (PHY 103 or equivalent) and EPS 221 Seminar in Earth & Planetary Science II (PHY 103 or equivalent)	4	
Complete a degree audit and plan for application for graduation						

FOURTH YEAR (29 S.H.)	SEMESTER 7 (13 S.H.)			SEMESTER 8 (13 S.H.)		
	EPY 405 Introduction to Special Education (EPY 203 or 204 OR PSY 210 or 211)	3		ED 340 Assessment of Teaching Strategies	1	
	ED 385 Methods of Teaching in Secondary Schools (enrollment in professional semester)	3		ED 342 Student Teaching	12	
	ED 386 Secondary Professional Development School Experience (enrollment in professional semester)	1				
	ED 440 Integrating Language (enrollment in professional semester)	3				
ED 442 Teaching Science in Secondary Schools*** (enrollment in professional semester)	3					

The Education Department requirements are outlined on the department website. Please note requirements for admission to the program, exams, certifications, professional education fees and student teaching policies.

Earth and Planetary Science Track Option:

AST 231 Introduction to Planetary Science (PHY 103 or appropriate placement exam and AST 150, Pre/Co-requisite MAT 181 or equivalent)
 EPS 331 Practicum in Earth and Planetary Science
 EPS 450 Senior Research (ES 210, AST 231, EPS 220/221, and EPS 331)

Meteorology Track Option:

MTR 240 Climatology (MTR 150)
 MTR 310 Atmospheric Thermodynamics (MAT 281, MTR 175, PHY 110)
 MTR 311 Atmospheric Dynamics (MTR 310, PHY 311)
 MTR 340 Mesoscale Meteorology (ES 210, Pre/Co-requisite MAT 282 and MTR 311)