Science Education: Earth Science Concentration (9-12)

Intro to Education <i>(C or better required)</i>	History/Philosophy of Science and Social Science Elective
(2) ED 100 (Fall Freshmen) OR	(3) HI 321, HI 322, HI 341, PHI 340, or STS 301
(2) ED 150/151-SAY Village (Fall & Spring Freshmen)	(3)Social Sciences Elective (see degree audit)
Academic Writing/Communication	GEP Courses
(4) ENG 101 Academic Writing & Research	(3) Choose a course from the GEP Humanities list
C- or better required	(3) Choose a course from the GEP Humanities list
(3) COM 110 Public Speaking	(1) Any 100 level Health & Exercise Studies
	(1) Any HE Course
Mathematics	(3) Additional Breadth – Choose one Humanities, Social
(3) MA 131 or MA 141 Calculus I	Sciences, or Visual Performing Arts course from the GEP list
(3) MA 231 or MA 241 Calculus II	
	USD and GK may "double-count" for both co-req and another GEP Requirement
Sciences (C or better required)	US Diversity Co-Requisite
(4) BIO 181 Intro Biology: Ecology, Evolution, and Biodiversity	Global Knowledge Co-Requisite
(4) BIO 183 Intro Biology: Cellular and Molecular	
(4) CH 101/102 Chemistry	Foreign Language Proficiency
(4) CH 201/202 Quantitative Chemistry	
(4) MEA 101/MEA 110 Geology	
(3) MEA 130 Weather and Climate	
(3) MEA 202 Geology II	
(3) MEA 200 Intro Oceanography	
(4) MEA 410 Intro Mineralogy and Petrology	
(4) MEA 451 Structural Geology	
(4) PY 211 College Physics I	
(4) PY 212 College Physics II (3) PY 123 or 124 Astronomy	
(3) ES 200 Climate Change and Sustainability	
*A grade of C (2.0) or better is required for science core content courses,	
C or better required in all courses below unless otherwise stated	
Fall Semester	SOPHOMORE YEAR Spring Semester
Tall Selfiester	(2) EMS 205 Intro to Teaching Science
	B- or better required
	(2) ED 204 Intro to 21st Century Teaching
	(3) EDP 304 Education Psychology
	(3) EDP 304 Education Psychology JUNIOR YEAR
Fall Semester	
Fall Semester (3) EMS 373 Instr. Materials in Science	JUNIOR YEAR
	JUNIOR YEAR Spring Semester
(3) EMS 373 Instr. Materials in Science	JUNIOR YEAR Spring Semester(3) EMS 375 Methods in Teaching Science Prerequisite: EMS 205. ED 204(3) ECI 416 Teaching Exceptional Students
(3) EMS 373 Instr. Materials in Science	JUNIOR YEAR Spring Semester(3) EMS 375 Methods in Teaching Science Prerequisite: EMS 205. ED 204
(3) EMS 373 Instr. Materials in Science	JUNIOR YEAR Spring Semester(3) EMS 375 Methods in Teaching Science Prerequisite: EMS 205. ED 204(3) ECI 416 Teaching Exceptional Students
(3) EMS 373 Instr. Materials in Science	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science Prerequisite: EMS 205. ED 204 (3) ECI 416 Teaching Exceptional Students(2) ED 311 Classroom Assessment Prerequisite: ATC(1) ED 312 Classroom Assessment Lab
(3) EMS 373 Instr. Materials in Science (3) ELP 344 School and Society	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science Prerequisite: EMS 205. ED 204 (3) ECI 416 Teaching Exceptional Students(2) ED 311 Classroom Assessment Prerequisite: ATC(1) ED 312 Classroom Assessment Lab SENIOR YEAR
(3) EMS 373 Instr. Materials in Science (3) ELP 344 School and Society Fall Semester	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science
(3) EMS 373 Instr. Materials in Science (3) ELP 344 School and Society Fall Semester (3) EMS 475 Methods of Teaching Science (Fall Only)	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science
(3) EMS 373 Instr. Materials in Science (3) ELP 344 School and Society Fall Semester (3) EMS 475 Methods of Teaching Science (Fall Only) B- or better required	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science
(3) EMS 373 Instr. Materials in Science (3) ELP 344 School and Society Fall Semester (3) EMS 475 Methods of Teaching Science (Fall Only)	JUNIOR YEAR Spring Semester (3) EMS 375 Methods in Teaching Science
[3] EMS 373 Instr. Materials in Science [3] ELP 344 School and Society Fall Semester [3] EMS 475 Methods of Teaching Science (Fall Only) B- or better required Prerequisite: EMS 375 Completed out of 4.5 PROFESSIONAL GROWTH UNITS (PGU's): must earn 4.5 PGU's by graduation	JUNIOR YEAR Spring Semester
[3] EMS 373 Instr. Materials in Science [3] ELP 344 School and Society Fall Semester [3] EMS 475 Methods of Teaching Science (Fall Only) B- or better required Prerequisite: EMS 375 Completed out of 4.5	JUNIOR YEAR Spring Semester