

Updated 4/26/2022

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Careers in NRM & Env Sci NR 140 (1)	Calculus I course: ¹ MATH 161 or 141 (4) * [B4]	Introductory Soil Science SS 120 (4)	Soil Health & Plant Nutrition SS 221 (4) (SS 120 or 121)	Soil Morphology SS 321 (4) (SS 120 or 121)		Undergraduate Seminar NR 363 (2) (Jr Standing)			Envir Soil & Water Chem SS 423 (5) (CHEM 129; 212, 216, 312, or CHEM 316; ERSC 223; MATH 118, 141, or 161; or Grad Standing)	Senior Project - Envir Soil Physics SS 424 (5) (CHEM 125/128; MATH 141/161; PHYS 121/141; SS 120; NR 363; or Grad Standing)	
Physical Geology GEOL 201 (3) (MATH 119)	General Chemistry for Agriculture & Life Science I CHEM 127 (4) * [B1 & B3]	General Chemistry for Agriculture & Life Science II CHEM 128 (4) (CHEM 127 or AP Chem score of 5)	General Chemistry for Agriculture & Life Science III CHEM 129 (4) (CHEM 128)	Organic Chem: Fundamentals & Applications CHEM 312 (5)⁶ (CHEM 125 or 128)	Statistics: STAT 217 (4) OR STAT 218 (4) * [GE Elective]	Soil Erosion & H ₂ O Conserv ERSC 303 (4) (LA/NR 218 or GEOG 318; SS 120)	Choose one: ^{1,7} ERSC/GEOG 333 (4) * BRAE 345 (3) * GEOG 325 (4) * GEOG 350 (4) * OR Calculus II MATH 142 (4) (MATH 141 w/min C- or Instr. consent)		Geomorphology ERSC 423 (4)³ (SS 120 or SS 121; GEOL 201)	Soil Ecology SS 422 (4) (CHEM 212, 312, or 313; SS 221; or Grad Standing)	
Intro to Earth Science ERSC 144 (4)	Introduction to GIS NR/LA 218 (3)		College Physics: ² PHYS 121 (4) OR PHYS 141 (4) *	Rocks & Minerals ERSC 223 (4) (SS 120; CHEM 124 or 127)	Physical Geology Lab GEOL 241 (1)⁵ (GEOL 102 or 201)	Global Climate Change NR 310 (4) (Jr Standing; GE Areas A & B1-B4) [Upper-Div B]	Choose one: ⁷ NR 418 (3) * NR 355 (4) * NR 416 (4) * SS 431 (4) *		Structural Geology GEOL 415 (4) (GEOL 241; ERSC 223)		
General Botany BOT 121 (4) [B2 & B3]					Approved Elective (4)⁴	Approved Elective (4)⁴	Approved Elective (4)⁴				Approved Elective (4)⁴
GE (4) **											
Oral Communication COMS 101 or 102 (4)** [A1] Can be taken anytime during Freshman Year			GE (4) ¹⁰ ** [D2]	GE (4) **	GE (4) **	GE (4) ⁹ ** [Upper-Div C]	Approved Elective (4)⁴	GE (4) ¹¹ ** [Upper-Div D]	GE (4) **	GE (4) **	GE (4) **
Expository Writing ENGL 133 or 134 (4)** [A2] Can be taken anytime during Freshman Year				GE (4) **				Free Elective (1-3)	Free Elective (2-4)	Free Elective (4)	Free Elective (4)
	Reasoning, Argumentation, & Writing [A3] COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGQS 145 (4)⁸ (Completion of GE A2 with a C- or better) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years.					Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)					
16	15	16	16	17	17	16	13-14	12-15	15-17	13	12
										TOTAL:	180-181

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

**One course from each of the following GE areas must be completed: A1, A2, A3, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2, Upper-Division D, Lower-Division E, F, and GE Elective. Upper-Division C should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, Upper-Division D, E or F.

¹ Students in the Geology concentration need to take MATH 141 & 142 to meet prerequisites for courses in the concentration. Students interested in the Soil Geotechnical Studies are encouraged to take MATH 141 & 142 to meet prerequisites for courses in that area.

² Students in the Geology concentration need to take PHYS 141 to meet prerequisites for courses in the concentration. Students interested in the Soil Geotechnical Studies Approved Electives area need to take PHYS 141 to meet prerequisites for courses in that area.

³ Students in the Geology concentration need to take ERSC 423 and GEOL 415 to meet requirements for this concentration.

⁴ Unless a concentration is declared, the default will be a combination of Approved Electives and Free Electives. Students who do not declare a concentration are encouraged to use Approved Electives and Free Electives to earn a minor. See the Approved Electives Guide in the catalog for recommended minors.

⁵ Students may take GEOL 241 either Fall or Spring quarter of their Sophomore year.

⁶ Students may take CHEM 312 any quarter of their Sophomore year.

⁷ Students interested in taking NR 355 need to take BRAE 345 to meet prerequisites.

⁸ ENGL 147: Writing Arguments about STEM recommended.

⁹ NR 360: Ethnicity and the Land or ENGL 316: Writing Sustainability (satisfies GWR) recommended.

¹⁰ GEOG 150: Human Geography recommended.

¹¹ GEOG 308: Global Geography, BRAE 349: Water for a Sustainable Society, or NR 323: Human Dimensions in Natural Resources Management recommended

Legend:

Course Title	
Course # (Units)	
(Prerequisite)	
[GE Area]	

Major (115-117)

General Ed. (52)

Free Elective (11-13)