

Updated 7/30/2019

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Careers in BRAE BRAE 128 (2)		3-D Solids Modeling BRAE 152 (1) (BRAE 133 & 151; or BRAE 150)	Principles of Irrigation BRAE 236 (4) (MATH 141)	Choose one: BIO 213 (2) & BRAE 213 (2) OR MCRO 221 (4)* [B2]	Agricultural Structures Planning BRAE 232 (4) (BRAE 150 or 151; PHYS 132)	Hydraulics BRAE 312 (4) (PHYS 132; ME 211)	Irrigation Theory BRAE 331 (3) (BRAE 236 or 340)	Irrigation Engineering BRAE 414 (4) (BRAE 331 or 340; 312 w/ min C)	Equipment Engineering BRAE 421 (3) (BRAE 152; CE 204; ME 212)	Equipment Engineering BRAE 422 (4) (BRAE 421)	Agricultural Systems Engineering BRAE 403 (4) (MATH 242 or 244; Coreq: STAT 312)
Engineering BRAE 2	oratory Skills and Sa BRAE 129 (1) g Surveying 239 (4) 9 or equiv)	fety	Fundamentals of Electricity BRAE 216 (4) (BRAE 129; MATH 142; PHVS 131 or 141)	Computer Programming Choose one: CSC 231 (2)* CSC 232 (3)* CSC 234 (3)*	Intro to Mechanical Systems in Ag BRAE 234 (4) (PHYS 131 or 141)	Electronics & Laboratory EE 321 (3) & EE 361 (1) (EE 201 or BRAE 216)	Measurements & Computer Interfacing BRAE 328 (4) (EE 321; 361; CSC 231 or 232 or 234)	Principles of Bioresource Engineering BRAE 320 (4) (BRAE 232; BRAE 236; CHEM 125; PHYS 132)	Agricultural Structures Design BRAE 433 (4) (BRAE 232; CE 204)		Ag Robotics Automation BRAE 428 (4) (BRAE 328)
Agricultural	cs and CAD for Engineering 150 (2)			Engineer	hysical Science & ing I & II CHEM 125 (4)* [Add'l Area B]	Statistical Methods for Engineers STAT 312 (4) (MATH 142)		Environmental Controls for Ag. Structures BRAE 332 (4) (BRAE 232)	Sr Proj Org BRAE 460 (1) (GE A3)	d Elective	Senior Project I BRAE 461 (2) (BRAE 460)
			Calculus IV	Linear Analysis I		[B6]				-5)	Elective (3-4)
MATH 141 (4) * [B1]	(MATH 141 w/ min C-) [B1]	MATH 143 (4) (MATH 142 w/ min C-) [Add'l Area B] Physics IA, II, & III PHYS 132 (4) (PHYS 131, HNRS 131, or PHYS 141) 4 (4)** [A1]	MATH 241 (4) (MATH 143) PHYS 133 (4) (PHYS 131, HNRS 131, or PHYS 141; MATH 142, Recom: MATH	MATH 244 (4) (MATH 143) Engineering Statics ME 211 (3) ¹ (MATH 241 or concurrently; PHYS 131 or 141)	Engineering Dynamics ME 212 (3) ¹ (MATH 241; ME 211 or ARCE 211)		CON 201 or 222 (4 [D2] Mechanics of N CE 204 (3) (ME 211)	•)	GE (4) **	GE (4) **	GE (4) **
Can be take Oral Communicat	en anytime during Free tion COMS 101 or 1 en anytime during Free (Cor	shman Year 102 (4) ¹ ** [A2] shman Year Technical Writing ENGL mpletion of GE A1 w/r	for Engineers [A3] 149 (4) min C-; Recom: GE Arr Freshman and Winter o	ea A2)		(Students can atter	GE (4) ** Writing Requirem mpt to fulfill the requiren suid complete the requiren year)	nent after 90 earned	GE (4) **	GE (4) **	
1.0	13	13	16	17-18	15	16	18	14	16	16-17	17-18
16	13	10	10	11-10			10			10-11	17-10

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, C1, C2, C3, C4, D1, D3, and E (formerly Area D4). C4 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: C3, C4, D1, D3, or E.

¹ Students are encouraged to take summer courses online or at a community college when possible. This is not mandatory.

Legend:

