

Effective 2020-2021

**Department of Natural Resources and Environmental Design
Bachelor of Science in Biological Engineering (Natural Resources Engineering Track)
Major Code: BLEN**

Curriculum Guide

Course	CR	Course	CR
Freshman Year: First Semester		Freshman Year: Second Semester	
GEEN 111	1	BIOE 121	1
ENGL 100	3	ENGL 101	3
CHEM 106	3	MATH 132	4
CHEM 116	1	BIOL 101	4
MATH 131	4	PHYS 241	3
GEEN 100	2	PHYS 251	1
Semester Total	14	Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
MEEN 230	3	African/American Studies Elective	3
MATH 231	4	CAEE 334	2
PHYS 242	3	MATH 341	3
PHYS 252	1	BIOL 221	4
Humanities Elective	3	CAEE 362	3
GEEN 161	2		
BIOE 200	1	Semester Total	15
Semester Total	17		
Junior Year: First Semester		Junior Year: Second Semester	
ISEN 260	2	BIOE 216	3
MEEN 241	3	BIOE 320	3
BIOE 340	3	BIOE 350	3
BIOE 360	3	Global Studies Elective	3
BIOE 204	3	BIOE 380	3
Social Behavioral Science Elective	3	Semester Total	15
Semester Total	17		
Senior Year: First Semester		Senior Year: Second Semester	
Statistics Elective	3	BIOE 425	3
BIOE 400	3	BIOE 423	3
ECEN 340	3	BIOE 424	3
BIOE 434	3	BIOE 496	2
BIOE 495	1	BIOE Elective	2
Semester Total	13	Semester Total	13

Total Credit Hours: 120

MAJOR PROGRAM REQUIREMENTS

Students must earn a C or better in the following courses:

BIOE 330	ISEN 370
BIOE 400	INEN 370
BIOE 423	MATH 131

BIOE 495	MATH 132
BIOE 496	MATH 224
CAEE 334	MATH 231
CHEM 106	MATH 341
CHEM 107	MEEN 441
ECEN 340	PHYS 241
ECON 305	PHYS 242
GEEN 100	CAEE 362

BIOE Electives:

BIOE 404, BIOE 422, BIOE 425, BIOE 426, BIOE 485, BIOE 490, CIEN 310, or other junior or senior level engineering courses approved by the faculty advisor.

Statistics Electives:

MATH 224, ECON 305, INEN 370, and CAEE 304.

Humanities/Fine Arts:

ENGL 200, ENGL 201, ENGL 230, ENGL 231, MUS 216, PHIL 260, PHIL 266, PHIL 267, PHIL 268, SPCH 250, LIBS 202, MUSI 220, PHIL 265 or PHIL 315 or courses approved by the faculty advisor.

Social/Behavioral Sciences:

BUED 279, ECON 200, ECON 201, FCS 134, FCS 181, FCS 260, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, HIST 130, HIST 206, HIST 207, HIST 216, HIST 231, JOMC 240, POLI 110, PSYC 101, SOCI 100, SOCI 200, SSFM 226 or courses approved by the faculty advisor.

Knowledge of African American Culture and History:

ENGL 333, ENGL 334, HIST 103, HIST 106, HIST 107, HIST 201, HIST 202, LIBS 202, MUSI 220 or courses approved by the faculty advisor.

Global Awareness:

HIST 130, HIST 207, HIST 216, HIST 231, MGMT 221, PHIL 103, PHIL 201 or courses approved by the faculty advisor.