

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

**Curriculum Guide | 2021-2022**

<b>Course</b>	<b>CR</b>	<b>Course</b>	<b>CR</b>
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
GEEN 111	1	BIOE 121	1
ENGL 100	3	ENGL 101	3
CHEM 106	3	CHEM 107	3
CHEM 116	1	MATH 132	4
MATH 131	4	PHYS 241	3
GEEN 100	2	PHYS 251	1
<b>Semester Total</b>	<b>14</b>	CHEM 117	1
		<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
MEEN 230	3	African/American Studies Elective	3
MATH 231	4	BIOL 101	4
PHYS 242	3	CAEE 334	2
PHYS 252	1	CHEM 221	3
Humanities Elective	3	CHEM 223	1
GEEN 161	2	MATH 341	3
BIOE 200	1	<b>Semester Total</b>	<b>16</b>
<b>Semester Total</b>	<b>17</b>		
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
CHEN 200	4	BIOL 221	4
ISEN 260	2	MEEN 260	2
CAEE 362	3	BIOE 320	3
MEEN 240	3	Global Studies Elective	3
BIOE 340	3	BIOE 350	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
Statistics Elective	3	BIOE 425	3
BIOE 422	3	BIOE 423	3
ECEN 340	3	BIOE 496	2
BIOE 434	3	BIOE Elective	3
BIOE 495	1	Social Behavioral Science Elective	3
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>14</b>

**Total Credit Hours: 120**

**MAJOR PROGRAM REQUIREMENTS**

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

MATH 131	BIOE 350
MATH 132	BIOE 495
MATH 231	BIOE 496
PHYS 241	

BIOE Electives:

BIOE 380, BIOE 426, BIOE 485, BIOE 490, CIEN 310 or other junior and senior level engineering courses approved by the faculty advisor.

Statistics Electives:

MATH 224, ECON 305, CAEE 304, and ISEN 370

Humanities/Fine Arts:

ENGL 200, ENGL 201, ENGL 230, ENGL 231, ENG 333, ENG 334, MUS 216, PHIL 101, PHIL 266, PHIL 267, SPCH 250, LIBS 202, MUSI 220, PHIL 104, PHIL 267, PHIL 103, PHIL 201 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.