

**Department of Chemical, Biological, and Bioengineering**  
**Bachelor of Science in Biological Engineering (Natural Resources Engineering Track)**  
**Major Code: BLEN**

**Curriculum Guide Curriculum Guide**

<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	MATH 132	4
CHEM 116	1	PHYS 241	3
MATH 131	4	PHYS 251	1
GEEN 100	2	BIOL 101	4
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
GEEN 161	2	African American Studies Elective	3
MEEN 230	3	CAEE 362	3
MATH 231	4	CAEE 334	2
PHYS 242	3	BIOL 221	4
PHYS 252	1	MATH 341	3
Humanities Elective	3	<b>Semester Total</b>	<b>15</b>
BIOE 200	1		
<b>Semester Total</b>	<b>17</b>		
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
BIOE 204	3	BIOE 216	3
MEEN 241	3	BIOE 332/ SLSC 632	3
ISEN 260	2	BIOE 330	3
BIOE 360	3	BIOL 320	3
Social Behavioral Science Elective	3	Global Studies Elective	3
BIOE 340	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>17</b>		
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
Statistics Elective	3	BIOE 424	3
BIOE 400	3	BIOE 423	3
BIOE 434	3	BIOE 496	2
ECEN 340	3	BIOE 425	3
BIOE 495	1	BIOE Elective	2
<b>Semester Total</b>	<b>13</b>	<b>Semester Total</b>	<b>13</b>

**Total Credit Hours: 120**

**MAJOR PROGRAM REQUIREMENTS**

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

BIOE 350	MATH 132
BIOE 495	MATH 231
BIOE 496	PHYS 241
MATH 131	PHYS 242

BIOE Electives:

BIOE 422, 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 206, STAT 214, ISEN 370, and CAEE 304.

Humanities/Fine Arts:

ENGL 200, ENGL 201, ENGL 211, ENGL 212, ENGL 230, ENGL 231, LIBS 202, MUS 216, MUS 220, PHIL 101, PHIL 103, PHIL 104, PHIL 201, PHIL 266, PHIL 267, SPCH 250.

Social/Behavioral Sciences:

BUED 279, ECON 200, ECON 201, FCS 135, FCS 181, FCS 260, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, HIST 206, HIST 207, HIST 216, HIST 231, JOMC 240, POLI 110, PSYC 101, SOCI 100, SOCI 200, SSFM 226.

Knowledge of African American Culture and History:

ENGL 211, ENGL 212, HIST 103, HIST 106, HIST 107, LIBS 202, MUSI 220.

Global Awareness:

HIST 130, HIST 206, HIST 207, HIST 216, HIST 231, MGMT 221, PHIL 103, PHIL 201.