

Department of Chemical, Biological, and Bioengineering
 Bachelor of Science in Bioengineering (Innovation)
 Major Code: BIEN

Curriculum Guide Effective 2020-2021

Course	CR	Course	CR
Freshman Year: First Semester		Freshman Year: Second Semester	
GEEN 111	1	ENGL 101	3
ENGL 100	3	BMEN 101	4
CHEM 106	3	PHYS 241	3
CHEM 116	1	BMEN 225	1
MATH 131	4	MATH 132	4
GEEN 100	2	BMEN 132	1
Semester Total	14	Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
Social / Behavioral Science	3	Humanities / Fine Arts	3
BMEN 220	3	MATH 341	3
MATH 231	4	BMEN 218	3
BMEN 231	1	CHEM 221	3
MEEN 104	2	BMEN 223	1
CHEM 107	3	GEEN 161	2
CHEM 117	1	Semester Total	15
Semester Total	17		
Junior Year: First Semester		Junior Year: Second Semester	
BMEN 310	3	BMEN 320	3
CHEN 300	3	BMEN 325	2
MEEN 230	3	ECEN 340	3
BMEN 350	3	BMEN 311	3
PHYS 242	3	BMEN 321	3
BMEN 252	1	BMEN 322	3
Semester Total	16	Semester Total	17
Senior Year: First Semester		Senior Year: Second Semester	
Global Awareness	3	African, American Culture / History	3
BMEN 480	3	BMEN 481	3
BMEN 411	3	Advance Engineering Elective	3
CHEN 312	4	Advance Science or Engineering Elective	3
Semester Total	13	Semester Total	12

Total Credit Hours: 120

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

Curriculum Guide Effective 2020-2021

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	CHEM 107	3
CHEM 116	1	MATH 132	4
MATH 131	4	PHYS 241	3
GEEN 100	2	PHYS 251	1
Semester Total	14	CHEM 117	1
		Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
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	Semester Total	16
Semester Total	17		
Junior Year: First Semester		Junior Year: Second Semester	
CHEN 200	4	BIOL 221	4
ISEN 260	2	MEEN 260	2
CAEE 362	3	BIOE 320	3
MEEN 241	3	Global Studies Elective	3
BIOE 340	3	BIOE 350	3
Semester Total	15	Semester Total	15
Senior Year: First Semester		Senior Year: Second Semester	
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
Semester Total	13	Semester Total	14

Total Credit Hours: 120

Bachelor of Science in Biological Engineering (Natural Resources Engineering Track)
Major Code: BLEN

Curriculum Guide Effective 2020-2021

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	PHYS 241	3
MATH 131	4	PHYS 251	1
GEEN 100	2	BIOL 101	4
Semester Total	14	Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
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	Semester Total	15
BIOE 200	1		
Semester Total	17		
Junior Year: First Semester		Junior Year: Second Semester	
BIOE 204	3	BIOE 216	3
MEEN 241	3	BIOE 332/ SLSC 632	3
ISEN 260	2	BIOE 330	3
BIOE 360/CAEE 364	3	BIOL 320	3
Social Behavioral Science Elective	3	Global Studies Elective	3
BIOE 340	3	Semester Total	15
Semester Total	17		
Senior Year: First Semester		Senior Year: Second Semester	
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
Semester Total	13	Semester Total	13

Total Credit Hours: 120

Department of Chemical, Biological, and Bioengineering
 Bachelor of Science in Chemical Engineering
 Major Code: CHEN

Curriculum Guide Effective 2020-2021

Course	CR	Course	CR
Freshman Year: First Semester		Freshman Year: Second Semester	
GEEN 111	1	CHEN 121	1
ENGL 100	3	ENGL 101	3
MATH 131	4	MATH 132	4
CHEM 106	3	BIOL 101	4
CHEM 116	1	PHYS 241	3
GEEN 100	2	PHYS 251	1
Semester Total	14	Semester Total	16
Sophomore Year: First Semester		Sophomore Year: Second Semester	
Social / Behavioral Sciences	3	Humanities / Fine Arts	3
MATH 231	4	CHEN 226	3
CHEM 107	3	MATH 341	3
CHEM 117	1	CHEM 221	3
CHEN 200	4	CHEM 223	1
MEEN 260	2	CHEN 218	3
Semester Total	17	Semester Total	16
Junior Year: First Semester		Junior Year: Second Semester	
Global Awareness	3	CHEN 320	3
CHEN 300	3	CHEN 330	2
CHEN 312	4	CHEN 340	3
CHEM 441	3	MEEN 230	3
PHYS 242	3	ECEN 340	3
PHYS 252	1	Semester Total	14
Semester Total	17		
Senior Year: First Semester		Senior Year: Second Semester	
CHEN 430	3	CHEN 440	3
CHEN 400	3	CHEN 448	3
CHEN 410	2	CHEN Elective	3
CHEN 422	3	Advanced CHEM Elective	3
African American Culture / History	3	Semester Total	12
Semester Total	14		

Total Credit Hours: 120