

## NCSU Biomedical Engineering

(Unofficial Community Colleges to NCSU Curriculum)

Degree Earned: NCSU Bachelor of Science in Biomedical Engineering Transfer GPA = 3.5 separate application  
 Effective: 2018-2019 Grey Highlighted Course – Take at NCSU

### FRESHMAN YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
CHM 151	CH 101 Chemistry -- A Molecular Science	3	CHM 152 & CHM 251	CH 201 Chemistry: Quantitative Science	3
CHM 151	CH 102 General Chemistry Lab	1	CHM 152 & CHM 251	CH 202 Quantitative Chemistry Lab	1
EGR 150	E 101 Intro to Engr & Problem Solving	1	MAT 272	MA 241 Calculus II	4
NCSU	E 115 Intro to Computing Environment	1	PHY 251	PY 205 Physics for Engr & Science I PY 206 Physics for Engr & Science I Lab	3 1
ENG 111 & ENG 112	ENG 101 Academic Writing & Research	4	ECO 251	EC 205 Economics	3
MAT 271	MA 141 Calculus I	4	NCSU	E 102 Engineering in the 21 <sup>st</sup> Century	2
PED 110	HESF 10* Fitness & Wellness Course	1			
<b>15</b>			<b>17</b>		

### SOPHOMORE YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
NCSU	BME 201 Comp Meth in BME	3	BIO 111	BIO 183 Intro Biology: Cellular & Molecular	4
NCSU	BME 209 Biomaterials	4	NCSU	BME 205 Intro Biomedical Mechanics	4
NCSU	BME 298 BME Design & Manufacturing 1	2	NCSU	BME 207 Biomedical Electronics	4
MAT 273	MA 242 Calculus III	4	CHM 251	CH 221/222 Organic Chemistry and Lab	4
PHY 252	PY 208 Physics for Engr & Science II	4			
<b>17</b>			<b>16</b>		

### JUNIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
NCSU	BME 301 Human Physiology for Engineers I	4	NCSU	BME 302 Human Physiology for Engineers II	4
NCSU	BME 3*5 BME Gateway 1	3	NCSU	BME Gateway 2	3
MAT 285	MA 341 Applied Differential Equations	3	NCSU	BME Gateway 3	3
	Engineering Elective	3	NCSU	BME 398 BME Design & Manufacturing ii	2
	GEP Requirement	3		GEP Requirement	3
<b>16</b>			<b>15</b>		

### SENIOR YEAR

<u>Fall Semester</u>		<u>Credit</u>	<u>Spring Semester</u>		<u>Credit</u>
NCSU	BME 451 BME Senior Design I	3	NCSU	BME 452 BME Senior Design II	3
	BME Specialty Elective 1	3	NCSU	BME Specialty Elective 3	3
	BME Specialty Elective 2	3	NCSU	BME Specialty Elective 4	3
	GEP Requirement	3		GEP Requirement	3
	GEP Requirement	3	PED 110	HESF Physical Education/Healthy Living	1
<b>15</b>			<b>13</b>		

**NCSU - Minimum Credit Hours Required for Graduation in Biomedical Engineering: 124**