

## BIOMEDICAL ENGINEERING

### Recommended course plan

YEAR	FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
FRESHMAN	Writ 101 – First Year Writing	3	Writ 102 – First Year Writing II	3
	Math 261 – Calculus I	3	Math 262 - Calculus II	3
	Chem 105/115 – General Chemistry I	4	Chem 106/116 – General Chemistry II	4
	Bisc 160/161 – Biology I	4	Bisc 162/163 – Biology II	4
	Social Science, Humanities or Fine Arts	3	BME 200 – Introduction to BME	2
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
SOPHOMORE	Math 263 – Calculus III	3	Math 264 – Calculus IV	3
	Phys 211/221 – Calc-based Physics I	4	Math 353 – Differential Equations	3
	CSCI 251 – Programming for Engineering	3	Phys 212/222 – Calc-based Physics II	4
	BME 222 – Biomaterials	3	ENGR 360 – Electric Circuit Theory	3
	Chem 221/225 – Organic Chemistry I	4	Chem 222/226 – Organic Chemistry II	4
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>17</b>
JUNIOR	EI E 331 – Linear Systems	3	BME 314 – Biomeasures	1
	BME 313 – BME Physiology	3	BME 444 – Biomed Controls	3
	BISC 336 – Genetics	4	BME 370 – Bioinformatics & Biosystems	3
	Chem E 307 – Chem Process Principles I	2	Chem E 308 – Chem Process Principles II	2
	Social Science, Humanities or Fine Arts	3	Econ 310 – Engineering Economy	3
			BME Track Elective	3
<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	
SENIOR	BME 461 – Senior Design I	2	BME 462 – Senior Design II	2
	BME 333 – Biological Transport	3	BME 320 – Bioseparations	3
	BME 510 – Drug and Gene Delivery	3	Chem E 520 – Biochemical Engineering	3
	BME Track Elective	3	Social Science, Humanities or Fine Arts	3
	Engr 400 – Leadership & Professionalism	1	Social Science, Humanities or Fine Arts	3
	Social Science, Humanities or Fine Arts	3		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	
			<b>MINIMUM TOTAL CREDIT HOURS</b>	<b>126</b>

**NOTE:** this is a sample course plan for the Biomolecular emphasis. The other emphases have very different course requirements, so please check with advisor.



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