

Required Core Courses (Total courses required = 2)		
<i>Course Number</i>	<i>Course Title</i>	<i>Credit Hours</i>
BNG 255	Biology for engineers (no prereqs)	3
BNG 321	Quantitative Physiology (prereq: BNG 255 or BIO 121)	3
	Subtotal # Core Credits Required	6
Elective Core Courses (Total courses required = 2) (attach list as needed)		
BNG 312	Biotransport (prereq: BNG 255 or BIO 121)	3
BNG 315	Biomechanics (prereq: PHY 111 or 113, BNG 255 or BIO 121, EGR 241, coreq MTH 212 and BNG 317*)	3
BNG 316	Biomaterials (prereq: BNG 255 and BNG 319 or CHM 251)	3
BNG 318	Biomeasurement and Control (prereq: ECE 211+251 or ECE 201 , and PHY 112 or PHY 114)	3
BNG 319 (219 being proposed)	Chemical Methods in Bioengineering (prereq: CHM 152* and BNG 255 or BIO 121)	3
	Subtotal # Minor Credits Required	6
Technical Elective Courses (Total courses required = 2) (attach list as needed)		
BNG 412	Molecular Bioengineering (prereq: BNG 255 or BIO 121)	3
BNG 415	Implantable Structures & Sensors (prereq: BNG 316)	3
BNG 416	Biomedical Devices	3
BNG 417	Nanotechnology in Bioengineering Systems (prereq: BNG 316, 321)	3
BNG 418	Biological Interactions of Material Surfaces (prereq: BNG 316, 321)	3
BNG 419	Biomimetics	3
BNG 424	Human Organogenesis (prereq: BNG 255 or BIO 121)	3
BNG 425	Mechanobiology (prereq: BNG 315* and BNG 321)	3
	Subtotal # Elective Credits Required	6
Curriculum Summary		
Total number of courses required for the Minor		6
Total credit hours required for the Minor		18
Prerequisite or Other Additional Requirements:		
* Courses may be waived by the chairperson for the BNG minor students only.		
Admission requirement: Minimum cumulative GPA of 2.5		
A minimum grade in each course leading to the BNG minor: C-		
Completion of the minor: minimum cumulative GPA 2.0 of the BNG minor		
<ul style="list-style-type: none"> • Students shall work with their faculty advisors on the suitability of the Technical Elective courses they choose. • While not required, students should consider completing Chemistry if interested in topics such as Biomaterials. 		