

Course Number and Name	hrs.	Semester	Grade	Course Number and Name	hrs.	Semester	Grade
BIOM 1710 Intro Biomed Engr <sup>1</sup>	3			BIOM 2710 Intro Medical Measurement	4		
CHEM 1110 Chemistry I	3			BIOL 3730 Vertebrate Physiology	4		
CHEM 1111 Chemistry Lab	1			Engr Elec (Including MECH 2332 or BIOL Elec) <sup>6</sup>	3		
ENGL 1010 English Composition <sup>1</sup>	3			Engr Elec <sup>4</sup>	3		
MATH 1910 Calculus I <sup>1</sup>	4			ECON 2110 Macroeconomics <sup>3</sup>	3		
<b>First Semester Total Hours</b>	<b>14</b>			<b>Fifth Semester Total Hours</b>	<b>17</b>		
CHEM 1120 Chemistry II	3			MECH 3320 Engineering Materials	3		
CHEM 1121 Chemistry II Lab	1			Soc Sci 1 <sup>3</sup>	3		
BIOM 1720 Intro Biomed Engr Tools	3			BIOM 3710 Physiological System/Modeling	3		
ENGL 1020 English Composition & Analysis	3			Engr Elec <sup>4</sup>	3		
MATH 1920 Calculus II	4			Tech Elec <sup>5</sup>	3		
PHYS 2111 Physics I Lab	1			ENGL 3603 Engineering Communication	3		
PHYS 2110 Physics for Science & Engineering I <sup>1</sup>	3			<b>Sixth Semester Total Hours</b>	<b>18</b>		
<b>Second Semester Total Hours</b>	<b>18</b>			BIOM 4760 Biomed Engr Design Principles	3		
BIOL 1110 Biology I	3			BIOM Elec <sup>7</sup>	3		
BIOL 1111 Biology I Lab	1			Tech Elec <sup>5</sup>	3		
BIOM 2720 Experimental Design Analysis	3			Human 1 <sup>2</sup>	3		
MATH 2110 Calculus III	4			Engr Elec <sup>4</sup>	3		
PHYS 2121 Physics II Lab	1			<b>Seventh Semester Total Hours</b>	<b>15</b>		
PHYS 2120 Physics for Science & Engineering II	3			Human 2 <sup>2</sup>	3		
<b>Third Semester Total Hours</b>	<b>15</b>			BIOM 4780 Senior Project	3		
BIOL 1120 Biology II	3			Engr Elec <sup>4</sup>	3		
BIOL 2011/2021 Anatomy and Physiology Lab I/II	1			BIOM Elec <sup>7</sup>	4		
BIOM 2810 Statics/Mechanics of Materials	4			<b>Eighth Semester Total Hours</b>	<b>13</b>		
MATH 3120 Differential Equations	3			<b>Grand Total Hours</b>	<b>128</b>		
ENGL 2201/2202 Literary Heritage/African-American	3						
EECE 2201/2283 Circuit Analysis I/Instrumentation	3						
EECE 2203.2381 Circuit Analysis Lab/Instrumentation Lab	1						
<b>Fourth Semester Total Hours</b>	<b>18</b>						

**Total Hours = 128**

**Total of 128 hours required for degree**

Graduation & General Education Requirements

1. "C-" or better in all engineering, math, physics, chemistry, and biology courses used towards graduation. **Students must complete each highlighted course with a "C" or better before being admitted to the Biomedical Engineering major.**
2. 6 hours of Humanities *from approved list* -- [http://www.memphis.edu/bme/docs/advising\\_guide.pdf](http://www.memphis.edu/bme/docs/advising_guide.pdf)
3. 3 hrs of Social Science *from approved list* -- [http://www.memphis.edu/bme/docs/advising\\_guide.pdf](http://www.memphis.edu/bme/docs/advising_guide.pdf) + ECON 2110 satisfies 6 hrs Social Science *requirement*
4. Must be an upper division (3XXX/4XXX) Engineering course
5. May be any upper division (3XXX/4XXX) Engineering, Science, or Math course
6. Engineering Elective (including MECH 2332) or upper division (3XXX/4XXX) Biology course
7. Electives for BIOM, see the advising guide [http://www.memphis.edu/bme/docs/advising\\_guide.pdf](http://www.memphis.edu/bme/docs/advising_guide.pdf)