

Course Number and Name	hrs.	Semester	Grade	Course Number and Name	hrs.	Semester	Grade
BIOM 1710 Intro Biomed Engr	3			BIOM 2710 Intro to Medical Measurements	4		
CHEM 1110 Chemistry I	3			BIOL 3730 Vertebrate Physiology	4		
CHEM 1111 Chemistry Lab	1			MECH 2332 Dynamics (Partial Credit for PHYS 3111)	3		
ENGL 1010 English Composition ²	3			Engr Elec ⁶	3		
MATH 1910 Calculus I	4			ECON 2110 Macroeconomics ⁵	3		
Soc Sci ⁴	3			Fifth Semester Total Hours	17		
First Semester Total Hours	17			MECH 3320 Engineering Materials	3		
CHEM 1120 Chemistry II	3			PHYS 3211 Electricity/Magnetism I	3		
CHEM 1121 Chemistry II Lab	1			BIOM 3710 Physiological System/Modeling	3		
BIOM 1720 Intro Biomed Engr Tools	3			Engr Elec: MECH 3311 for PHYS 4510 ⁶	3		
ENGL 1020 English Composition & Analysis ²	3			Tech Elec: PHYS 3010 ⁷	3		
MATH 1920 Calculus II	4			ENGL 3603 Engineering Communication	3		
PHYS 2111 Physics I Lab	1			Sixth Semester Total Hours	18		
PHYS 2110 Physics for Science & Engineering I	3			BIOM 4760 Biomed Engr Design Principles (PHYS Upper Div)	3		
Second Semester Total Hours	18			BIOM Elec	3		
BIOL 1110 Biology I	3			Tech Elec PHYS 3011 ⁷	3		
BIOL 1111 Biology I Lab	1			Human 1 ³	3		
BIOM 2720 Experimental Design Analysis	3			Engr Elec ⁶	3		
MATH 2110 Calculus III	4			Seventh Semester Total Hours	15		
PHYS 2121 Physics II Lab	1			Human 2 ³	3		
PHYS 2120 Physics for Science & Engineering II	3			BIOM 4780 Senior Project (Credit for PHYS 3610/3611)	3		
ENGL 2201/2202 Literary Heritage/African-American ²	3			Engr Elec: PHYS Upper Div elect ⁶	3		
Third Semester Total Hours	18			BIOM Elec	4		
BIOL 1120 Biology II	3			PHYS 4410 Intro Quantum Theory	3		
BIOL 2011/2021 Anatomy and Physiology Lab I/II	1			Eighth Semester Total Hours	16		
BIOM 2810 Biomedical Statics/Mechanics of Materials	3			Grand Total Hours	136		
EECE 2201/2283 Circuit Analysis/Instrumentation	3			**8 extra hours in curriculum to meet 2nd Major in Physics requirements** See reverse side (pg 2) for notes.			
EECE 2203/2281 Circuit Analysis/Instrumentation - Lab	1						
MATH 3120 Differential Equations	3						
PHYS 2115 Classical Physics	3						
Fourth Semester Total Hours	17						

Total Hours = 136

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. 9 hours of English with a "C" or better in ENGL 1010 and ENGL 1020
3. 6 hours of Humanities *from approved list* -- http://www.memphis.edu/bme/docs/advising_guide.pdf
4. 3 hours of Social Science *from approved list* -- http://www.memphis.edu/bme/docs/advising_guide.pdf
5. Satisfies 3 hours of Social Science *requirement*
6. Must be an upper division (3XXX/4XXX) Engineering course
7. May be any upper division (3XXX/4XXX) Engineering, Science, or Math course
8. American History waived with High School American History
9. The *Catalog* is valid for seven (7) years
10. For electives pertaining to the following focus areas; *Biomaterials/Tissue Engineering, Bioelectrical Devices and Systems, Biomechanics, Computational Bioengineering, Pre-medical professional studies*, see the advising guide-- http://www.memphis.edu/bme/docs/advising_guide.pdf

Note: Additional requirements as specified in the *Catalog*