Updated 8/13/2014											
FRESHMAN			SOPHOMORE			JUNIOR			SENIOR		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Introduction to the Biomedical Engineering Major BMED 101 (1)	Introduction to Biomedical Engineering Analysis BMED 102 (1) (BMED 101, MATH 141)		Introduction to Cell & Molecular Biology BIO 161 (4) (Recom: CHEM 110, 111, 124 or 127) [B2/B4]	Introduction to Biomedical Engineering BMED 212 (3) (MATH 143 or Instr. consent)	Mechanics of Materials I CE 204 (3) (ME 211)	Biomedical Engineering Measurement and Analysis BMED 310 (4) (EE 201; CPE/CSC 101, CSC 231, or CSC 234)	Biomechanics BMED 410 (4) (ME 212, CE 204, BMED 310, or Instr. consent)	Engineering Physiology BMED 460 (4) (200 331 or 332, BMED 310, or Instr. consent)	Biomedical Engineering Transport BMED 425 (4) (ME 302, ME 341 or Instr. consent)	Biomedical Modeling and Simulation BMED 430 (2) (BMED 425 or Instr. consent)	
Calculus I MATH 141 (4) * [B1]	Calculus II MATH 142 (4) (MATH 141 w/min C-) [B1]	Calculus III MATH 143 (4) (MATH 142 w/min C-) [Add'l Area B]	Calculus IV MATH 241 (4) (MATH 143)	Linear Analysis I MATH 244 (4) (MATH 143)	Approved Support Elective (4) <sup>2</sup>	Mechanics of Materials II CE 207 (3) (CE 204) OR Electronics EE 321 (3) (EE 201)	Principles of Biomaterials Design BMED 420 (4) (CE 204, MATE 210, or Instr. consent)	Approved Technical Elective (300/400 level) (4) <sup>1</sup>	Biomedical Engineering Design I BMED 455 (4) (BMED 410 or Instr. consent)	Biomedical Engineering Design II: Senior Project BMED 456 (4) (BMED 455 or Instr. consent	Contemporary Issues in BMED BMED 450 (4)* or Special Topics in Bioengineering ENGR 451 (4)*
	General Physics IA PHYS 141 (4) (MATH 141 w/min C-; MATH 142t or 182t) [Add'I Area B]	General Physics II PHYS 132 (4) (PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131, HNRS 131, or PHYS 141; MATH 142. Recom: MATH 241)	Programming for Engineering Students CSC 231 (2) (MATH 142;PHYS 121, 131, or 141)	Electric Circuit Theory EE 201 (3) (MATH 244, PHYS 133)	Materials Engineering MATE 210 (3) (CHEM 111, 124, or 127)	Thermodynamics ME 302 (3) (PHYS 132; ME 212 or CHEM 128)	Fluid Mechanics I ME 341 (3) (ME 212)	Bioelectronics and Instrumentation BMED 440 (4) (EE 201, BMED 310 or Instr. consent)	Approved Technical Elective (300/400 level) (4) <sup>1</sup>	Approved Technical Elective (300/400 level) (4) <sup>1</sup>
General Chem. for Engr. I CHEM 124 (4)* OR General Chemistry I CHEM 127 (4)* [B3/B4]	General Chem. for Engr. II CHEM 125 (4)* OR General Chemistry II CHEM 128 (4)*	GE (4) **		Engineering Statics ME 211 (3) (MATH 241†, PHYS 131 or 141)	Engineering Dynamics ME 212 (3) (MATH 241; ME 211 or ARCE 211)	Statistical Methods for Engineers STAT 312 (4) (MATH 142) [B6]	Human Anatomy and Physiology I or II 200 331 (5) 0R 200 332 (5) (BI0 111 or 161; CHEM 111, 124, 127, or PSC 102)	Approved Support Elective (4) <sup>2</sup>	Approved Support Elective (4) <sup>2</sup>	GE (4) **	GE (4) **
	Engineering Design Communication <b>ME 228 (2)</b>			GE (4) **	GE (4) **	GE (4) **				GE (4) **	GE (4) **
Expository Writing ENGL 133/134 (4)** [A1] Can be taken anytime during Freshman Year											
Oral Communication COMS 101/102 (4)** [A2] Can be taken anytime during Freshman Year Technical Writing for Engineers ENGL 149 (4) (Completion of CF A1 with a C- or better Recommended: Complete			(A3)		Graduation Writing Requirement GWR* (Can be taken any time after 90 earned units)						
Can be taken anytime between Winter of Freshman and Winter of Sophomore Years											
13	15	16	16	16	17	18	16	15	16	18	16
										TOTAL:	192

## Notes:

## MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

\* Refer to current catalog for prerequisites.

\*\*One course from each of the following GE areas must be completed: A1, A2, C1, C2, C3, C4, D1, D2, D3, D4. C4 should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR). USCP requirement can be satisfied by some (but not all) courses within GE categories: C3, C4, D1, D3, or D4.

<sup>1</sup> Technical elective form required and should be submitted prior to Junior year. Technical electives must be at 300/400 level, and total 12 units.

 $^{2}\ensuremath{\,\text{Refer}}$  to current catalog for course selection. Support electives must total 12 units.

+ Course can be taken previously or concurrently.

