

Bioengineering B.S. Degree: Assistive Technology (Motor)

2015-2016 Curriculum Chart

Math & Statistics •MATH 3 or AMS 3 or math placement of 400 or higher MATH 19A Calculus [F / W / Sp] •MATH 19A MATH 19B Calculus [F / W / Sp] •MATH 19B or 20B MATH 23A* Vector Calculus [F / W / Sp] •AMS 3 or MATH 3 or math placement of 400 or higher AMS 10 Math Methods for Engineers I [F / Sp] •MATH 19B, AMS 10 or MATH 21 AMS 20 Math Methods for Engineers II [W / Sp] •MATH 11B or MATH 19B or AMS 11B AMS 131 Intro to Probability Theory [F] •AMS 131 or CMPE 107 AMS 132 Statistical Inference [W] <i>*Students may choose to take MATH 22 in place of MATH 23A.</i>	Physics •Coreq: MATH 19A or 20A PHYS 5A/L Intro to Physics I [F / W] •MATH 19A, PHYS 5A/L or 6A/L, AMS 10 or MATH 21 CMPE 9 Statics, Dynamics, & Biomechanics [W] •MATH 19B or 20B, PHYS 5A/L PHYS 5C/N Intro to Physics III [Sp]	Computer Engineering CMPE 12/L Computer Systems & Assembly Language Strongly recommended to take one of these classes prior: CMPS 5J, 5P, 10 or equivalent [F / W / Sp] •CMPE 12/L CMPE 13/L Computer Systems & C Programming [W / Sp] •CMPE 12/L CMPE 100/L Logic Design [W / Sp] •EE 101/L, CE 12/L & CE 100/L CMPE 118/L Mechatronics [F] Elective Upper-Division PBSci or BSoE Elective	Chemistry •MATH 3 CHEM 1A General Chemistry [F / W / Sp] CHEM 1B/M General Chemistry [F / W / Sp] Biology & Biotech CMPE 80A Universal Access [F / Sp] CMPE 8 Robot Automation [W] •CHEM 1A, 1B BIOL 20A Cell & Molecular Biology [F / W / Sp] •BIOL 20A BIOE 20B Development & Physiology [F / W / Sp] •BIOL 20A, BIOE 20B METX 135/L Functional Anatomy [Sp]
	Electronics •MATH 19B or 20B, or MATH 11B Coreq: PHYS 5C/N or 6C/N BME 101/L Applied Circuits [Sp] •PHYS 5C/N or 6C/N, MATH 24, or previous or concurrent enrollment in AMS 20 EE 101/L Intro to Electronic Circuits [F / W] •EE 101/L, AMS 20 EE 103/L Signals & Systems [F / Sp] •EE 103 CMPE 167/L Sensing & Sensor Technologies [W]	Design Project OR Senior Thesis * Prereqs listed below CMPE/EE 129A Capstone Project I [F] *Prereqs listed below CMPE/EE 129B Capstone Project II [W] •CMPE/EE 129B CMPE/EE 129C Capstone Project III [Sp] <i>The prerequisites for CMPE 129A and EE 129A are different—please plan accordingly.</i> *Prerequisites: CMPE 129A: CMPE 121/L EE 129A: EE 171/L, CMPE 100, CMPE 185, & previous or concurrent enrollment in EE 157 or CMPE 118 or CMPE 121 *CMPE 129B: CMPE 129A; co-req CMPE 185 EE 129B: EE 129B BME 195 Senior Thesis BME 195 Senior Thesis BME 195 Senior Thesis BME 123T Senior Thesis Presentation [W]	
	Humanities BME 80G Bioethics in the 21st Century [F] •CMPS 12B or CMPE 12 or BME 160 CMPE 185 Technical Writing [F / W / Sp]		

Notes:

- Denotes prerequisites and corequisites.
- Choice of electives will need faculty approval (see back).

Information about the prerequisites and scheduling of courses can change without notice—please check your plan each quarter and adjust for any changes.

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Bioengineering Electives Approval Form Elective 1: _____ Explanation for choice of electives: _____ _____ _____ _____

Student Name: Staff Advisor: Faculty Advisor:
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