

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

2016-2017 Curriculum Chart

<p style="text-align: center;">Math & Statistics</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 3 or AMS 3 or math placement of 400 or higher MATH 19A Calculus [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 19A or 20A MATH 19B Calculus [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•AMS 3 or MATH 3 or math placement of 400 or higher AMS 10 Math Methods for Engineers I [F / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 19B, AMS 10 or MATH 21 AMS 20 Math Methods for Engineers II [W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 11B or MATH 19B or 20B or AMS 11B AMS 131 Intro to Probability Theory [F / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•AMS 131 or CMPE 107 AMS 132 Statistical Inference [W]</p> </div>	<p style="text-align: center;">Physics</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•Coreq: MATH 19A or 20A PHYS 5A/L Intro to Physics I [F / W]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 19A, PHYS 5A/L or 6A/L, AMS 10 or MATH 21 CMPE 9 Statics, Dynamics, & Biomechanics [W]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•MATH 19B or 20B, PHYS 5A/L PHYS 5C/N Intro to Physics III [Sp]</p> </div>	<p style="text-align: center;">Computer Engineering</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>CMPE 12/L^Ω Computer Systems & Assembly Language [Strongly recommended to take one of these classes prior: CMPS 5J, 5P, 10 or equivalent] [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•CMPE 12/L CMPE 13/L Computer Systems & C Programming [W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•CMPE 12/L CMPE 100/L Logic Design [W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•EE 101/L, CE 12/L & CE 100/L CMPE 118/L Mechatronics [F]</p> </div>	<p style="text-align: center;">Chemistry</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•Prev. or concurrent enrollment in MATH 3 or equivalent or math placement of 300 or higher CHEM 1A General Chemistry [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•Strong high school level chemistry is recommended CHEM 1B/M General Chemistry [F / W / Sp]</p> </div>
	<p style="text-align: center;">Electronics</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•MATH 19A BME 51A Applied Electronics I [W]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•BME 51A BME 51B Applied Electronics II [Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•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]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•EE 101/L, AMS 20 EE 103/L Signals & Systems [F / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•CMPE 13/L, EE 103/L CMPE 167/L Sensing & Sensor Technologies [W]</p> <p style="text-align: center;">OR</p> <p>•CMPE 13/L or CMPS 12B/M, and PHYS 5A or 6A CMPE 161 Mobile Sensing And Interaction [Sp]</p> </div>	<p style="text-align: center;">Humanities</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>BME 80G Bioethics in the 21st Century [F]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•CMPS 12B or CMPE 12 or BME 160 CMPE 185 Technical Writing [F / W / Sp]</p> </div>	<p style="text-align: center;">Biology & Biotech</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>CMPE 80A Universal Access [F / Sp]</p> <p style="text-align: center;">OR</p> <p>CMPE 8 Robot Automation [F]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•CHEM 1A BIOL 20A Cell & Molecular Biology [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•BIOL 20A BIOE 20B Development & Physiology [F / W / Sp]</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•BIOL 20A, BIOE 20B METX 135/L Functional Anatomy [Sp]</p> </div>
		<p style="text-align: center;">Design Project OR Senior Thesis</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>* Prereqs listed below CMPE/EE 129A Capstone Project I [F]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>*Prereqs listed below CMPE/EE 129B Capstone Project II [W]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>•CMPE/EE 129B CMPE/EE 129C Capstone Project III [Sp]</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">BME 195 Senior Thesis</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">BME 195 Senior Thesis</p> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">BME 195 Senior Thesis</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>•BME 185 or CMPE 185 and concurrent enrollment in BME/CE/EE 193, 195 or 198 BME 123T Senior Thesis Presentation [W]</p> </div>	

The prerequisites for CMPE 129A and EE 129A are different—please plan accordingly.

***Prerequisites:**
CMPE 129A: prev. or concurrent enrollment in 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 129A

Notes:

- Denotes prerequisites and corequisites.
 - Courses in which you receive a grade of C-, D+, D, or D- earn credit toward graduation, but cannot be used to satisfy a major requirement or a general education requirement, and cannot satisfy a prerequisite for another course.
 - The School of Engineering has different major declaration deadlines than the UCSC Academic/Administrative calendar. Our deadlines and process can be found on: <http://ua.soe.ucsc.edu/declare>
 - Ω CMPS 5P Intro. to Prog. in python is recommended for students who have never programmed
- Information about the prerequisites and scheduling of courses can change without notice—please check your plan each quarter and adjust for any changes.**

**Bioengineering B.S. Degree: Assistive Technology (Motor)
2016-2017 Curriculum Chart**

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

<p>Bioengineering Electives Approval Form</p> <p>Elective 1: _____</p> <p>Explanation for choice of electives:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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<p>Student Name:</p> <p>Staff Advisor:</p> <p>Faculty Advisor:</p>
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