

Bioengineering B.S. Degree: Assistive Technology (Cognitive/Perceptual) 2016-2017 Curriculum Chart

Math & Statistics

- AMS 2 or 3 or 6 or 11A or 15A; or MATH 3 or 11A or 19A
AMS 7/L
Biostatistics [F / W / Sp]
- MATH 3 or AMS 3 or math placement of 400 or higher
MATH 19A
Calculus [F / W / Sp]
- MATH 19A or 20A
MATH 19B
Calculus [F / W / Sp]
- AMS 3 or Math 3 or math Placement of 400 or higher
AMS 10
Math Methods for Engineers I [F, S]
- Or
- MATH 11A or 19A or 20A or AMS 11A or 15
MATH 21
Linear Algebra [F, W, S]

Physics & Electronics

- Coreq: MATH 19A or 20A
PHYS 5A/L*
Intro to Physics I [F / W]
- PHYS 5A/L, MATH 19A or 20A
Coreq: MATH 19B or 20B
PHYS 5B/M*
Intro to Physics II [W]
- MATH 19B or 20B, PHYS 5A/L
PHYS 5C/N*
Intro to Physics III [Sp]
- MATH 19A
BME 51A
Applied Electronics I [W]
- BME 51A
BME 51B
Applied Electronics II [Sp]

**Students may choose to take the Physics 6 series in place of the Physics 5 series (But the 5 series is recommended).*

Computer Science

- MATH 3 or 11A or 19A or AMS 3 or or AMS/Econ 11A or math placement of 400 or higher
CMPS 12A/L* Ω
Intro to Programming [F / W]
- CMPS 11 or 12A or CMPE 13
CMPS 12B/M
Intro to Data Structures [F / W / Sp]
- CMPS 12B/M or 13H
CMPS 109
Advanced Programming [F / W]
- CMPE 13/L or CMPS 12B/M and PHYS 5A or 6A
CMPE 161
Mobile Sensing & Interaction [Sp]
- CMPS 12B
CMPE 131
Human Computer Interaction [not offered in 16-17]
OR
•CMPS 12B
CMPM 131
User Experience for Interactive Media [W]

Psychology

- CMPE 80A**
Universal Access [F / Sp]
- PSYC 20A**
Cognition [F / W]
- AMS 2 or 3 or 6; or Math 3; and PSYC 2 or AMS 5 or 7/7L
PSYC 100
Research Methods [F / W / Sp]
- Psychology Elective 1***

- Psychology Elective 2***

***Psychology Electives:**
PSYC 120: Visual & Spatial Cognition
PSYC 121: Perception
PSYC 123: Cognitive Neuroscience
PSYC 128: Human Factors
PSYC 129: Human Learning & Memory

Humanities

- BME 80G**
Bioethics in the 21st Century [F]
- CMPS 12B or CMPE 12 or BME 160
CMPE 185
Technical Writing [F / W / Sp]

Senior Thesis

- BME 195**
Senior Thesis
- BME 195**
Senior Thesis
- BME 195**
Senior Thesis
- BME 185 or CMPE 185 and concurrent enrollment in BME/CE/EE 193, 195 or 198
BME 123T
Senior Thesis Presentation [W]

Chemistry

- Prev. or concurrent enrollment in MATH 3 or equivalent or math placement of 300 or higher
CHEM 1A
General Chemistry [F / W / Sp]
- Strong high school level chemistry is recommended
CHEM 1B/M
General Chemistry [F / W / Sp]

Biology

- CHEM 1A
BIOL 20A
Cell & Molecular Biology [F / W / Sp]
- BIOL 20A
BIOE 20B
Development & Physiology [F / W / Sp]

Notes:

- Denotes prerequisites and corequisites.
 - * Students may choose to take CMPS 5J & CMPS 11 OR CMPE 12/L & 13/L, in place of CMPS 12A/L.
 - 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.**

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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>Elective 2: _____</p> <p>Elective 3: _____</p> <p align="center">Explanation for choice of electives:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>

<p>Student Name:</p> <p>Staff Advisor:</p> <p>Faculty Advisor:</p>
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