

Bioengineering B.S. Degree: Assistive Technology (Cognitive/Perceptual)

2014-2015 Curriculum Chart DRAFT

<div>Math & Statistics</div> <div><div>•MATH 3 or 11A or 19A AMS 7/L Biostatistics [F / W / Sp]</div><div>•MATH 3 or AMS 3 or math placement MATH 19A Calculus [F / W / Sp]</div><div>•MATH 19A or 20A MATH 19B Calculus [F / W / Sp]</div><div>•MATH 19B or 20B MATH 23A* Vector Calculus [F / W / Sp]</div><div>•MATH 23A MATH 23B* Vector Calculus [F / W / Sp]</div><div>•MATH 11B or MATH 19B AMS 131 Intro to Probability Theory [F]</div><div>•AMS 131 or CMPE 107 AMS 132 Statistical Inference [W]</div><div><i>*Students may choose to take MATH 22 in place of MATH 23A & 23B</i></div></div>	<div>Physics & Electronics</div> <div><div>•Coreq: MATH 19A or 20A PHYS 5A/L* Intro to Physics I [F]</div><div>•PHYS 5A/L, MATH 19A or 20A PHYS 5B/M* Intro to Physics II [W]</div><div>•MATH 19B or 20B. Coreq: MATH 22 or 23A. PHYS 5C/N* Intro to Physics III [Sp]</div><div>•MATH 19B or 20B. Coreq: PHYS 5C/N or 6C/N BME 101/L Applied Circuits [Sp]</div><div><i>*Students may choose to take the Physics 6 series in place of the Physics 5 series (6A/L, 6B/M, & 6C/N for 5A/L, 5B/M, & 5C/N, respectively).</i></div></div>	<div>Computer Science</div> <div><div>•MATH 3 or 11A or 19A CMPS 12A/L Intro to Programming [F / W / Sp]</div><div>•CMPS 11 or 12A/L or CMPE 13/L CMPS 12B/M Intro to Data Structures [F / W / Sp]</div><div>•CMPS 12B/M or 13H/L CMPS 109 Advanced Programming [W / Sp]</div><div>•CMPS 12B/M CMPE 131 Human-Computer Interaction [W]</div><div>•CMPE 13/L or CMPS 12B/M, PHYS 5A or 6A CMPE 161 Mobile Sensing & Interaction [W]</div></div>	<div>Psychology</div> <div><div>CMPE 80A Universal Access [F / Sp]</div><div>PSYC 20A Cognition [F / Sp]</div><div>• MATH 3, PSYC 2 or AMS 5 or 7/7L PSYC 100 Research Methods [F / W / Sp]</div><div>Psychology Elective 1* _____</div><div>Psychology Elective 2* _____</div><div>*Psychology Electives: PSYC 120: Visual & Spatial Cognition PSYC 121: Perception PSYC 123: Cognitive Neuroscience PSYC 128: Human Factors PSYC 129: Human Learning & Memory</div></div>
<div>Humanities</div> <div><div>BME 80G Bioethics in the 21st Century [F]</div><div>•CMPS 12B or CMPE 12 or BME 160 CMPE 185 Technical Writing [F / W / Sp]</div></div>	<div>Design Project OR Senior Thesis</div> <div><div><i>*Prereqs listed below</i> CMPE/EE 129A Capstone Project I [F]</div><div>•CMPE/EE 129A CMPE/EE 129B Capstone Project II [W]</div><div>•CMPE/EE 129A CMPE/EE 129C Capstone Project III [Sp]</div><div><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/L, CMPE 185, & previous or concurrent enrollment in EE 157/L or CMPE 118/L or CMPE 121/L.</div></div>		<div>Chemistry</div> <div><div>CHEM 1A General Chemistry [F / W / Sp]</div><div>CHEM 1B/M General Chemistry [F / W / Sp]</div></div>
<div>Elective</div> <div><div>Upper-Division PBSci/ BSoE/Psych Elective _____</div></div>	<div>Biology</div> <div><div>•CHEM 1A, 1B BIOL 20A Cell & Molecular Biology [F / W / Sp]</div><div>•BIOL 20A BIOE 20B Development & Physiology [F / W / Sp]</div></div>		

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 _____

<p>Bioengineering Electives Approval Form</p> <p>Elective 1: _____</p> <p>Elective 2: _____</p> <p>Elective 3: _____</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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