

Bioengineering B.S. Degree: Bioelectronics

2014-2015 Curriculum Chart DRAFT

<div>Math & Statistics</div> <div><ul style="list-style-type: none">•MATH 3 or AMS 3 or math placement MATH 19A Calculus [F / W / Sp]• MATH 19A or 20A MATH 19B Calculus [F / W / Sp]•MATH 19B or 20B MATH 23A* Vector Calculus [F / W / Sp]•MATH 23A MATH 23B* Vector Calculus [F / W / Sp]•MATH 3 AMS 10 Math Methods for Engineers I [F / Sp]•MATH 19A, AMS 10 or 10A or Math 21 AMS 20 Math Methods for Engineers II [W / Sp]•MATH 11B or MATH 19B AMS 131 Intro to Probability Theory [F]•AMS 131 or CMPE 107 AMS 132 Statistical Inference [W]</div> <div><p><i>*Students may also choose to take MATH 22 in place of MATH 23A & 23B.</i></p></div>	<div>Physics</div> <div><ul style="list-style-type: none">•Coreq: MATH 19A or 20A PHYS 5A/L Intro to Physics I [F]•PHYS 5A/L, MATH 19A or 20A PHYS 5B/M Intro to Physics II [W]•MATH 19B or 20B. Coreq: MATH 22 or 23A. PHYS 5C/N Intro to Physics III [Sp]</div>	<div>Chemistry</div> <div><ul style="list-style-type: none">CHEM 1A General Chemistry [F / W / Sp]CHEM 1B/M General Chemistry [F / W / Sp]•CHEM 1A CHEM 1C/N General Chemistry [F / W / Sp]</div>	<div>Computer Engineering</div> <div><ul style="list-style-type: none">•One of the following: CMPE 3 or 8, CMPS 5C or 5J or 5P or 10 or 12A/L, or BME 60/L CMPE 12/L Computer Systems & Assembly Language [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]</div>
	<div>Humanities</div> <div><ul style="list-style-type: none">BME 80G Bioethics in the 21st Century [F]•CMPS 12B or CMPE 12 or BME 160 CMPE 185 Technical Writing [F / W / Sp]</div>	<div>Biology & Biotechnology</div> <div><ul style="list-style-type: none">•CHEM 1A, 1B BIOL 20A Cell & Molecular Biology [F / W / Sp]•BIOL 20A BIOE 20B Development & Physiology [F / W / Sp]•BME 5 or BIOL 100 or BMB 100A BME 140 Bioinstrumentation [F]</div>	<div>Electronics</div> <div><ul style="list-style-type: none">•MATH 19B or 20B. Coreq: PHYS 5C/N or 6C/N BME 101/L Applied Circuits [Sp]•PHYS 5C/N or 6C/N, MATH 24 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]•EE 101/L EE 171/L Analog Electronics [Sp]Electronics Elective*</div>
<div><div><div>Design Project</div><div><ul style="list-style-type: none">*Prereqs listed below CMPE/EE 129A Capstone Project I [F]•CMPE/EE 129A CMPE/EE 129B Capstone Project II [W]•CMPE/EE 129A CMPE/EE 129C Capstone Project III [Sp]</div></div><div>OR</div><div><div>Senior Thesis</div><div><ul style="list-style-type: none">BME 195 Senior ThesisBME 195 Senior ThesisBME 195 Senior ThesisBME 123T Senior Thesis Presentation</div></div></div>			
<div><p><i>The prerequisites for CMPE 129A and EE 129A are different—please plan accordingly.</i></p><p>*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.</p></div>			
<div><p>*Electronics Electives: CMPE 121/L: Microprocessor System Design CMPE 141: Feedback Control Systems EE 130/L: Intro to Optoelectronics & Photonics EE 153: Digital Signal Processing EE 172: Advanced Analog Circuits</p></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>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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