Bioelectronics & Biophotonics Minor DRAFT
2019-2020 Curriculum Chart

*This major cannot be combined with: the Bioelectronics concentration of the former Bioengineering major, the EE BS, or the EE minor*

Mathematics & Statistics
- MATH 19A Calculus
- MATH 19B Calculus
- AM 10 Math Methods for Engineers I
- OR MATH 21 Linear Algebra
- OR AM 20 Math Methods for Engineers II
- OR MATH 24 Ordinary Differential Equations

Physics
- PHYS 5A/L Intro to Physics I/Lab
- PHYS 5C/N Intro to Physics III/Lab

Biology & Biotechnology
(Pick one)
- BME 140 Bioinstrumentation
- ECE 104 Bioelectronics & Bioinstrumentations
- ECE 130/L Introduction to Optoelectronics and Photonics/Lab

Computer Engineering
- CSE 12/LΩ Computer Systems & Assembly Language/Lab
  [Strongly recommended to take one of these classes prior: CMPS 5J, 5P, 10 or equivalent]
- CSE 13E Embedded Systems & C Programming/Lab
- CSE 100/L Logic Design/Lab

Electronics
- ECE 101/L Intro to Electronic Circuits/Lab
- ECE 121 Microcontroller System Design
- ECE 103 Signals & Systems
- ECE 167/L Sensing & Sensor Technology/Lab

http://undergrad.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 08/15/2019
<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>Winter</td>
<td>Spring</td>
<td>Summer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>Winter</td>
<td>Spring</td>
<td>Summer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>Winter</td>
<td>Spring</td>
<td>Summer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>