<table>
<thead>
<tr>
<th>COURSE</th>
<th>NAME (PREREQS [*; DENOTES &quot;AND&quot;])</th>
<th>TERM</th>
<th>CR</th>
<th>COURSE</th>
<th>NAME (PREREQS [*; DENOTES &quot;AND&quot;])</th>
<th>TERM</th>
<th>CR</th>
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<tbody>
<tr>
<td>BIOM 100</td>
<td>Overview of Biomedical Engineering</td>
<td>1</td>
<td>1 Year Spring</td>
<td>BIOM 311</td>
<td>Linear Systems Analysis (MATH 340; ECE 202; ECE 331; ECE 341)</td>
<td>2</td>
<td>3</td>
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<tr>
<td>CHEM 111</td>
<td>General Chemistry I (MATH 118 or 127 or 141 or 155 or 160 or 161 or 229 or 261)</td>
<td>4</td>
<td>3</td>
<td>ECE 231</td>
<td>Electronics Principles I (ECE 202; ECE 311; ECE 341; ECE 434; MATH 341; PH 142)</td>
<td>4</td>
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<tr>
<td>CO 150</td>
<td>College Composition (CO 130 or placement by ACT or SAT or DSP Survey or Challenge Exam)</td>
<td>3</td>
<td>3</td>
<td>ECE 341</td>
<td>Electromagnetics Fields and Devices I (ECE 202; MATH 340; PH 142)</td>
<td>3</td>
<td>2</td>
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<tr>
<td>ECE 102</td>
<td>Digital Circuit Logic</td>
<td>4</td>
<td>3</td>
<td>ECE 332</td>
<td>Electromagnetics II (ECE 331; ECE 341)</td>
<td>4</td>
<td>3</td>
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<tr>
<td>MATH 160</td>
<td>Calculus for Physical Scientists I (MATH 124*; MATH 125* or 127*)</td>
<td>4</td>
<td>3</td>
<td>BIOM 300</td>
<td>Problem-Based Learning BME Lab (BIOM 103) or BIOM 200 or (BIOM 100; CHEM 205; MATH 262); (MATH 340 or 345)</td>
<td>4</td>
<td>3</td>
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<tr>
<td>PH 142</td>
<td>Physics for Scientists and Engineers II (PH 141; (MATH 161 or 255 or conc or 271 or conc))</td>
<td>5</td>
<td>3</td>
<td>BMS 300</td>
<td>Principles of Human Physiology (BZ 103 or 110 or LIFE 102; CHEM 103 or 107 or 111)</td>
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<td>PHYSICS</td>
<td>Circuit Theory Applications (ECE 103; MATH 160)</td>
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<td>1</td>
<td>ECON 202</td>
<td>Principles of Microeconomics (MATH 117 or 118 or 127 or 141 or 155 or 156 or 160)</td>
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<td>CHEM 112</td>
<td>General Chemistry Lab I (CHEM 111 or conc or CHEM 117)</td>
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<td>1</td>
<td>ECE 457</td>
<td>Fourier Optics (ECE 319, ECE 342)</td>
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<td>ECE 103</td>
<td>DC Circuit Analysis (MATH 159 or 160)</td>
<td>3</td>
<td>3</td>
<td>ECE 451</td>
<td>Biomedical Magnetic Resonance Imaging (ECE 451)</td>
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<td>LIFE 102</td>
<td>Attributes of Living Systems</td>
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<td>3</td>
<td>ECE 452</td>
<td>Biomedical Image Processing (ECE 452)</td>
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<td>MATH 161</td>
<td>Calc for Physical Scientists II (MATH 124 or 127; (MATH 159 or 160))</td>
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<td>3</td>
<td>ECE 453</td>
<td>Biomedical Image Processing (ECE 453)</td>
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<td>ECE 454</td>
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<td>ECE 455</td>
<td>Biomedical Image Processing (ECE 455)</td>
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<td>BIOM 301</td>
<td>Biomedical Design Practicum: Capstone Design I (BIOM 300; (BIOM 421; CBE 320; CBE 442) or (BIOM 431; ECE 311; ECE 332; ECE 342) or (BIOM 441; MECH 301A; MECH 301B; MECH 302A; MECH 303B))</td>
<td>4</td>
<td>3</td>
<td>ECE 456</td>
<td>Biomedical Image Processing (ECE 456)</td>
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<td>BIOM 486</td>
<td>Biomedical Design Practicum: Capstone Design II (BIOM 486A; (PH 353 or CBE 451 or ECE 312) or (MECH 325; MECH 344))</td>
<td>4</td>
<td>3</td>
<td>ECE 457</td>
<td>Biomedical Image Processing (ECE 457)</td>
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<td>ECE-TE</td>
<td>ECE Technical Elective (DARS Change pending - 9 cr of EE TE or 8 cr TE + ECE 231)</td>
<td>3</td>
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<td>ECE 458</td>
<td>Biomedical Image Processing (ECE 458)</td>
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<td>PH 451</td>
<td>Intro to Quantum Mechanics I (PH 314; MATH 272 or 340 or 345)</td>
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<td>3</td>
<td>ECE 459</td>
<td>Biomedical Image Processing (ECE 459)</td>
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<td>CO 301B</td>
<td>CO 301B: Writing in Disciplines: Science</td>
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<td>BOLDED and * = Must have at least a &quot;C&quot; in BOLDED courses</td>
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<td>JTC 300</td>
<td>JTC 300: Strategic Writing &amp; Communication</td>
<td>4</td>
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<td>AUCC</td>
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<td>3</td>
<td>* - All course prerequisites for required undergraduate ECE courses must be completed with a C or better</td>
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<td>Key:</td>
<td></td>
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<td>Please note that curricula can change; be sure to check DARS/Degree Audit and with your advisors regularly to ensure you are on track.</td>
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</tbody>
</table>

**AUCCs:** Additional All University Core Courses (click here for list)

3 credits - 1C Diversity, Equity, and Inclusion:

6 credits - 3B Arts and Humanities: ________________

3 credits - 3C Social/Behavioral Science: ECON 202

3 credits - 3D Historical Perspective: ________________

Rev 6-2-2023-BEB