<table>
<thead>
<tr>
<th>Curriculum Check Sheet</th>
<th>158 Credits</th>
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<tbody>
<tr>
<td>Biomedical Engineering AND Electrical</td>
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<tr>
<td>Engineering Lasers and Optics</td>
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**Name:** ____________________________  **Advisers, pls use advising sections on back**

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### First Year – 31 Credits – Courses (prereqs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr</th>
<th>FA</th>
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<tbody>
<tr>
<td>BIOM 101</td>
<td>Intro to Biomedical Engineering</td>
<td>3</td>
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<tr>
<td>ECE102</td>
<td>Digital Circuit Logic</td>
<td>4</td>
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<tr>
<td>MATH160</td>
<td>Calculus for Physical Scientists I (MATH 124, 126)</td>
<td>4</td>
<td>F,</td>
<td>SS</td>
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<tr>
<td>CHEM111</td>
<td>General Chemistry I (MATH 118 or 124 or 155 or 160 or 229 or 261)</td>
<td>4</td>
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<tr>
<td>CHEM112</td>
<td>General Chemistry Lab I (CHEM 111 or CHEM 117 conc.)</td>
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<td>ECE103</td>
<td>DC Circuit Analysis (MATH 160)</td>
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<tr>
<td>MATH161</td>
<td>Calculus for Physical Scientists II (MATH 124 or 126)</td>
<td>4</td>
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<tr>
<td>PH141</td>
<td>Physics for Scientists and Engineers I (MATH 126 and 155 or 160)</td>
<td>5</td>
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<tr>
<td>CHEM113</td>
<td>General Chemistry II (CHEM 107 or 111 or 117; MATH 124 or 141 or MATH 155 or MATH 160 or MATH 161 or MATH 229 or MATH 261)</td>
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### Second Year – 31 Credits

<table>
<thead>
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<tbody>
<tr>
<td>MATH261</td>
<td>Calculus for Physical Scientists III (MATH 161)</td>
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<tr>
<td>CO150</td>
<td>College Composition (CO 130 or SAT vbl/critcl reading score 600, or ACT English score 26)</td>
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<tr>
<td>PH142</td>
<td>Physics for Scientists and Engineers II (MATH 161 or conc.)</td>
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<tr>
<td>CS155 OR CS156, CS157</td>
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<tr>
<td>ECE202</td>
<td>Circuit Theory Appl. (ECE 103)</td>
<td>4</td>
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<tr>
<td>MATH345 OR MATH340</td>
<td>Differential Equations --OR-- Intro to Ordinary Differential Equations</td>
<td>4</td>
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<tr>
<td>CIVE262</td>
<td>Engineering Mechanics* (MATH 161; PH 141)</td>
<td>4</td>
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<tr>
<td>LIFE102</td>
<td>Attributes of Living Systems</td>
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### Third Year – 32 Credits

<table>
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<tbody>
<tr>
<td>ECE311</td>
<td>Linear Systems Analysis I (ECE 202; MATH 340 or MATH 345)</td>
<td>3</td>
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<tr>
<td>ECE341</td>
<td>Electromag. Fields and Devices I (PH 142; MATH 340 or MATH 345)</td>
<td>3</td>
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<tr>
<td>MECH337</td>
<td>Thermodyn. (MATH 261; PH 141)</td>
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<tr>
<td>LIFE210</td>
<td>Intro to Eukaryotic Cell Bio (CHEM 111, 112 (or conc.); LIFE 102)</td>
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<tr>
<td>PH 353</td>
<td>Optics and Waves (MATH 261; PH 142)</td>
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<tr>
<td>BMS 300</td>
<td>Principles of Human Physiology (BZ 101 or 110 or LIFE 102; CHEM 103 or 107 or CHEM 111)</td>
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<tr>
<td>ECE342</td>
<td>Electromag. Fields and Devices II (ECE 341)</td>
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<tr>
<td>CHEM245</td>
<td>Fundamentals of Organic Chemistry (CHEM 107 or CHEM 113)</td>
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<tr>
<td>PH 314</td>
<td>Intro to Modern Physics (MATH 261)</td>
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<tr>
<td>E/ STAT303</td>
<td>Intro to Communication Principles (MATH 261; ECE 311 (or conc.))</td>
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<td>ECE331</td>
<td>Electronics Principles I (ECE 202; MATH 340 or 345)</td>
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<tr>
<td>ECE/BIOM 4XX</td>
<td>ECE Gateway course (*Pending approval)</td>
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<td>ECE441</td>
<td>Optical Electronics (ECE 342)</td>
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<td>Experimental Optical Electronics (Conc. ECE 441)</td>
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<tr>
<td>BIOM 300</td>
<td>Problem-Based Learning BME Lab (BIOM 101; MATH 340)</td>
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<td>ECE332</td>
<td>Electronics Principles II (ECE 331; MATH 340 or 345)</td>
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<td>ECE 457</td>
<td>Fourier Optics (ECE 312; 342)</td>
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<tr>
<td>ECON 202</td>
<td>Microeconomics (MATH 117 or 118 or 141 or 155 or 160)</td>
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<tr>
<td>CO301B</td>
<td>Writing in the Disciplines-Sci. -- OR - JTC 300 Profess. &amp; Tech. Comm. (CO 150 or HONR 193)</td>
<td>3</td>
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<tr>
<td>PH 451</td>
<td>Intro to Quantum Mech. I</td>
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<td>BIOM486B</td>
<td>Capstone Design Practicum II</td>
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<td>Technical Elective</td>
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### Fifth Year - 32 Credits

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<tr>
<td>BIOM486A</td>
<td>Capstone Design Pract I (BIOM 300; 330 or 441 or ECE 441)</td>
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<td>E/E BIOM</td>
<td>Technical Electives</td>
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<tr>
<td>CO301B</td>
<td>Writing in the Disciplines-Sci. -- OR - JTC 300 Profess. &amp; Tech. Comm. (CO 150 or HONR 193)</td>
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<tr>
<td>BIOM486B</td>
<td>Capstone Design Practicum II</td>
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<td>E/E BIOM</td>
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**Additional AUCC**

<table>
<thead>
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<th>Category</th>
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<tbody>
<tr>
<td>3B Arts and Humanities</td>
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<tr>
<td>3C Social/Behavioral Science</td>
<td>3</td>
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<tr>
<td>3D Historical Perspective</td>
<td>3</td>
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<tr>
<td>3E Global/Cultural Awareness</td>
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Students: Please note that curricula can change; be sure to check with your adviser regularly to be sure you are on track.

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Rev 1/26/11