### B.S. in Computer Engineering

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>M 171Q - Calculus I</td>
<td>4</td>
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<tr>
<td>EEE 101 - Intro Electrical Fundamentals</td>
<td>3</td>
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<tr>
<td>CLS 101US - Knowledge and Community or COMX 111US - Introduction to Public Speaking</td>
<td>3</td>
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<tr>
<td>CSCI 127 - Joy and Beauty of Data</td>
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<tr>
<td>M 172Q - Calculus II</td>
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<tr>
<td>PHSX 220 - Physics I (w/ calculus)</td>
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<tr>
<td>CSCI 112 - Programming with C I</td>
<td>3</td>
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<tr>
<td>CSCI 132 - Basic Data Structures and Algorithms</td>
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<td>Total Year:</td>
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#### Sophomore Year

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>M 274 - Introduction to Differential Equation</td>
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<tr>
<td>PHSX 222 - Physics II (w/ calculus)</td>
<td>4</td>
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</tr>
<tr>
<td>EEE 201 - Circuits I for Engineering</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EEE 261 - Intro To Logic Circuits</td>
<td>4</td>
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<tr>
<td>University Core Elective*</td>
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<tr>
<td>WRIT 101W - College Writing I</td>
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<tr>
<td>M 273Q - Multivariable Calculus</td>
<td>4</td>
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<tr>
<td>EGEN 350 - Applied Engineering Data Analysis</td>
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<tr>
<td>EEE 203 - Circuits II for Engineering</td>
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#### Junior Year

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<tr>
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<tbody>
<tr>
<td>University Core Elective*</td>
<td>3</td>
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</tr>
<tr>
<td>EEE 371 - Microprocess HW and SW Systems</td>
<td>4</td>
<td></td>
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<tr>
<td>EEE 308 - Signals and Systems Analysis</td>
<td>3</td>
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<tr>
<td>EEE 317 - Electronics</td>
<td>4</td>
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<tr>
<td>CSCI 246 - Discrete Structures</td>
<td>3</td>
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<tr>
<td>EGEN 310R - Multidisciplinary Engineering Design</td>
<td>3</td>
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<tr>
<td>EEE 465 - Microcontroller Applications</td>
<td>4</td>
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<tr>
<td>EEE 367 - Logic Design</td>
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<td>Choose one of the following:</td>
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<tr>
<td>EEE 321 - Intro To Feedback Controls</td>
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<tr>
<td>EEE 477 - Digital Signal Processing</td>
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<td>Total Year:</td>
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#### Senior Year

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<tr>
<th>Course</th>
<th>Fall</th>
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<tbody>
<tr>
<td>University Core Elective*</td>
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<tr>
<td>EEE 334 - Electromagnetic Theory I</td>
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<tr>
<td>EEE 467 - SoC FPGAs I : Hardware-Software Codesign</td>
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<tr>
<td>EEE 488R - Electric Engineering Design I</td>
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<td>Two EEE/CSCI Electives*</td>
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<td>University Core Elective*</td>
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<tr>
<td>EEE 468 - SoC FPGAs II: Application Specific Computing</td>
<td>4</td>
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<tr>
<td>EEE 489R - Electrical Engr Design II</td>
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<td>EEE 487 - Prof, Ethics &amp; Engr Practices</td>
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<td>EGEN 488 - Fundamentals of Engineering Exam</td>
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<td>Two EEE/CSCI Electives*</td>
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<td>Total Year:</td>
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Total Program Credits: 126

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* Elective requirements include 12 credits of humanities, social science, diversity, and arts classes as part of the University Core requirements, 11 credits of approved professional electives from the list below, including a minimum of 6 credits in Computer Science. There must be a minimum of 4 credits at the 300 level or above in the student's professional elective package.

#### Professional Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACTG 201</td>
<td>Principles of Financial Acct</td>
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<tr>
<td>ACTG 202</td>
<td>Principles of Managerial Accounting</td>
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<tr>
<td>ASTR 371</td>
<td>Fundamentals of Astronomy</td>
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<tr>
<td>ASTR 373</td>
<td>Observational Astronomy</td>
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<tr>
<td>BCH 380</td>
<td>Biochemistry</td>
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<tr>
<td>BIOL 105CS</td>
<td>Introduction to Biotechnology</td>
<td>3</td>
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<tr>
<td>BIOL 160</td>
<td>Principles of Living Systems</td>
<td>4</td>
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<tr>
<td>BIOL 170IN</td>
<td>Principles of Biological Diversity</td>
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<tr>
<td>BIOL 260</td>
<td>Cellular and Molecular Biology</td>
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<td>BIOH 185</td>
<td>Integrated Physiology I</td>
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<tr>
<td>BIOH 201</td>
<td>Human Anatomy and Physiology I</td>
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<tr>
<td>BIOH 211</td>
<td>Human Anatomy and Physiology II</td>
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<td>BIOM 103IN</td>
<td>Unseen Universe: Microbes</td>
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<td>BMKT 325</td>
<td>Principles of Marketing</td>
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<tr>
<td>CHMY 141</td>
<td>College Chemistry I</td>
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<td>CHMY 143</td>
<td>College Chemistry II</td>
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<td>CHMY 211</td>
<td>Elements of Organic Chemistry</td>
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<td>CHMY 321</td>
<td>Organic Chemistry I</td>
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<td>CHMY 323</td>
<td>Organic Chemistry II</td>
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<td>CS 204</td>
<td>Multimedia Dev Methods</td>
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<td>CSCI 232</td>
<td>Data Structures and Algorithms</td>
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<td>ECNS 309</td>
<td>Managerial Economics</td>
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<td>EEE 300 &amp; 400 level courses, excluding EEE 354</td>
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<tr>
<td>EGEN 201</td>
<td>Engineering Mechanics--Statics</td>
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<td>EGEN 202</td>
<td>Engineering Mechanics -- Dynamics</td>
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<td>EGEN 205</td>
<td>Mechanics of Materials</td>
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<td>EGEN 325</td>
<td>Engineering Economic Analysis</td>
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<tr>
<td>EGEN 330</td>
<td>Business Fundamentals for Technical Professionals</td>
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<td>EGEN 335</td>
<td>Fluid Mechanics</td>
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<td>EIND 354</td>
<td>Engineering Probability and Statistics I</td>
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<td>EIND 364</td>
<td>Principles of Operations Research I</td>
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<td>EIND 373</td>
<td>Production Inventory Cost Analysis</td>
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<td>EIND 425</td>
<td>Technology Entrepreneurship</td>
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<td>EIND 434</td>
<td>Project Management for Engineers</td>
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<tr>
<td>EIND 454</td>
<td>Engr Probability and Stats II</td>
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<td>EMEC 300 &amp; 400 level courses</td>
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<tr>
<td>ERTH 101IN</td>
<td>Earth System Sciences</td>
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<tr>
<td>ESOF 322</td>
<td>Software Engineering</td>
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<tr>
<td>ESOF 422</td>
<td>Advanced Software Engineering</td>
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<tr>
<td>GPHY 121D</td>
<td>Human Geography</td>
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<tr>
<td>GPHY 141D</td>
<td>Geography of World Regions</td>
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<tr>
<td>GPHY 284</td>
<td>Intro to GIS Science &amp; Cartog</td>
<td>3</td>
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<tr>
<td>M 221</td>
<td>Introduction to Linear Algebra</td>
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<tr>
<td>M 242</td>
<td>Methods of Proof</td>
<td>3</td>
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<tr>
<td>M 300 &amp; 400 level courses, excluding M 330</td>
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<tr>
<td>PHSX 224</td>
<td>Physics III</td>
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<tr>
<td>PHSX 300 &amp; 400 level courses (no more than 1 cr PHSX 494), excluding PHSX 305 and 499</td>
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<tr>
<td>WRIT 221</td>
<td>Intermediate Tech Writing</td>
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<tr>
<td>WRIT 429</td>
<td>Professional Writing</td>
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</tr>
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</table>
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.