The following list summarizes our expected course offerings for upcoming semesters, but should be used as a guide only. Future course offerings are subject to change, depending on enrollment, availability of faculty, departmental resources, degree plan changes, and other constraints.

<table>
<thead>
<tr>
<th>COURSE ID</th>
<th>COURSE NAME</th>
<th>FALL 2018</th>
<th>SPRING 2019</th>
<th>FALL 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGI 1331</td>
<td>Computers and Problems Solving</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 2100</td>
<td>Circuit Analysis Laboratory</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 2201</td>
<td>Circuit Analysis I</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 2202</td>
<td>Circuit Analysis II</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 337</td>
<td>Applied Electromagnetic Waves</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>ECE 3331</td>
<td>Programming Applications in Electrical and Computer Engineering</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3337</td>
<td>Signals and Systems Analysis</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3340</td>
<td>Numerical Methods for ECE (was ECE 2331)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3356</td>
<td>Microprocessor Systems (was ECE 4436)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3344</td>
<td>Digital Logic Design</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3355</td>
<td>Electronics Laboratory</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 4335</td>
<td>Electrical and Computing Engineering Design I</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ENGI 1100</td>
<td>Introduction to Engineering</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 4336</td>
<td>Electrical and Computing Engineering Design II</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**ELECTIVES**

<table>
<thead>
<tr>
<th>COURSE ID</th>
<th>COURSE NAME</th>
<th>FALL 2018</th>
<th>SPRING 2019</th>
<th>FALL 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 3364</td>
<td>Circuits and Systems</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 3366</td>
<td>Introduction to Digital Signal Processing</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 3456</td>
<td>Analog Electronics</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 3457</td>
<td>Digital Electronics</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 4339/4119</td>
<td>Physical Principles of Solid State Devices + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 4363/4113</td>
<td>Electromechanical Energy Conversion</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 4371/4117</td>
<td>Introduction to Telecommunications Engineering + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 4375/4115</td>
<td>Automatic Control Systems + LAB</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>ECE 4437</td>
<td>Embedded Microcomputer Systems</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5317/5113</td>
<td>Microwave Engineering + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5318/5114</td>
<td>Antenna Engineering + LAB</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5319/5119</td>
<td>Introduction to Nanotechnology + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>ECE 5320/5120</td>
<td>Introduction to Nanomaterials Engineering + LAB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5321/5121</td>
<td>Design and Fabrication of Nanoscale Devices + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5330</td>
<td>Introduction to Robotics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5335/5115</td>
<td>State-Space Control Systems + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5340</td>
<td>Introduction to Well-Logging Techniques</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5346</td>
<td>Very Large Scale Integrated Circuit Design</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5354</td>
<td>Digital Video</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5356</td>
<td>CMOS Analog Integrated Circuits</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5357</td>
<td>Introduction to Cybersecurity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5358</td>
<td>Modern Optics and Photonics</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5367</td>
<td>Introduction to Computer Architecture and Design</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5377</td>
<td>Power Transmission and Distribution + LAB</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5380/5180</td>
<td>Power Electronics And Electric Drives + LAB</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5385</td>
<td>Smart Grid Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5388</td>
<td>Renewable Energy Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECE 5397</td>
<td>Introduction to Machine Learning</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5397</td>
<td>Robotics and ROS</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5436</td>
<td>Advanced Microprocessor Systems</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5440</td>
<td>Advanced Digital Design</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ECE 5451</td>
<td>Principles of Internetworking</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

© University of Houston Cullen College of Engineering, Department of Electrical and Computer Engineering