## ELECTRICAL & COMPUTER ENGINEERING

### FIRST YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MTH 103</strong> or <strong>MTH 095</strong></td>
<td><strong>MTH 111</strong> College Algebra</td>
<td><strong>MTH 112</strong> Elementary Functions</td>
</tr>
<tr>
<td><strong>Algebraic Reasoning</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
</tr>
<tr>
<td><strong>Perspectives</strong></td>
<td><strong>Perspectives</strong></td>
<td><strong>CS 161</strong> Intro to Computer Sci. I</td>
</tr>
<tr>
<td><strong>Western Culture</strong></td>
<td><strong>Cultural Diversity</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
</tr>
<tr>
<td><strong>F,W,S,U(3)</strong></td>
<td><strong>F,W,S,U(3)</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
</tr>
<tr>
<td><strong>WR 121</strong> English Composition</td>
<td><strong>Perspectives</strong></td>
<td><strong>Difference, Power &amp; Discrimination</strong></td>
</tr>
<tr>
<td><strong>Alpha-Sectioned or U(3)</strong></td>
<td><strong>F,W,S,U(3)</strong></td>
<td><strong>F,W,S,U(3-4)</strong></td>
</tr>
<tr>
<td><strong>Lifetime Fitness</strong></td>
<td><strong>Biological Science with Laboratory</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
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<tr>
<td><strong>HHS 231 + Lab/PAC</strong></td>
<td><strong>Speech</strong></td>
<td><strong>Perspectives</strong></td>
</tr>
<tr>
<td><strong>F,W,S,U(2+1)</strong></td>
<td><strong>F,W,S,U(3)</strong></td>
<td><strong>Literature and Arts</strong></td>
</tr>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td><strong>ECE 111</strong> F(3) or ENGR 111 F (3)</td>
<td><strong>ECE 112</strong> W(3) or ENGR 112 F,W,S(3)</td>
<td><strong>ECE 271 &amp; 272 Digital Logic F,S(3)</strong></td>
</tr>
<tr>
<td><strong>MTH 251 Differential Calculus</strong></td>
<td><strong>CS 261 Data Structures in “C” F,W,S,U(4)</strong></td>
<td><strong>PH 211 Physics w/Calculus (PH 221 recommended) F,S,U(4)</strong></td>
</tr>
<tr>
<td><strong>CS 162 Intro to Computer Sci. II</strong></td>
<td><strong>MTH 231 Differential Equations</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
</tr>
<tr>
<td><strong>MTH 252 Integral Calculus</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
<td><strong>F,W,S,U(4)</strong></td>
</tr>
</tbody>
</table>

### SHADING

Shaded courses are required by the college prior to admission to the Professional Engineering Program.

Shaded courses are additional prerequisites for third-year courses.

(   ) The number within the parenthesis represents the credits of the course.

F, W, S, U: Represents the term the course is offered (Fall, Winter, Spring, and Summer terms respectively).

Rev. 5/14
THIRD YEAR

Fall
MTH 251 & MTH 252
ENGR 201 Electrical Fundamentals
F, W, S, U (3)

Winter
MTH 256
ENGR 202 Electrical Fundamentals
W, S, U (3)

Spring
MTH 254
ENGR 203 Electrical Fundamentals
F, S, U (3)

Academic Year: 2015-2016

Fall
ECE 271 & ‘C’ programming

Winter
ENGR 203

Spring
ENGR 203 & MTH 256

FOURTH YEAR

Fall
ECE 375 Comp. Organiz. & Assembly Language Programming
F, W (4)

Winter
ECE 322 Electronics I
F, W (4)

Spring
ECE 323 Electronics II
F, W, S (4)

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ELECTRICAL & COMPUTER ENGINEERING

FIFTH YEAR

Academic Year: 2016-2017

Fall

ECE 390
Or
CS 311
F (4)

ECE 441
Engineering Design Project
F (3)

ECE 4xx
Senior level elective

Winter

ECE 4xx
Senior level elective

ECE 442
Engineering Design Project
W (3)

ECE 443
Engineering Design Project
S (2)

Spring

Elective 4xx
Senior level elective

Elective 4xx
Senior level elective

Elective 4xx
Senior level elective

Restricted Elective
Elective (3-4)

Restricted Elective
Elective (3-4)

MTH 255, & ENGR 203 con.

ECE 322 & ECE 351 & CS 261 & WR 327 & (Senior Standing in ECE)

Shaded courses are part of the pro-core coursework

Electives are chosen from an approved list available at