<table>
<thead>
<tr>
<th></th>
<th>First Year</th>
<th>Sophomore</th>
<th>Junior</th>
<th></th>
<th>Senior</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>Semester 1</strong></td>
<td></td>
</tr>
<tr>
<td>ENGR 150</td>
<td></td>
<td>ENGR 220</td>
<td></td>
<td>ENGR 322</td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td></td>
<td>MATH 200</td>
<td></td>
<td>ENGR 320</td>
<td></td>
</tr>
<tr>
<td>ENGR 171</td>
<td></td>
<td>PHYS 112</td>
<td></td>
<td>ENGR 381</td>
<td></td>
</tr>
<tr>
<td><strong>Semester 2</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>Semester 2</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 114</td>
<td></td>
<td>ENGR 221</td>
<td></td>
<td>ENGR 350</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td></td>
<td>MATH 210</td>
<td></td>
<td>ENGR 382</td>
<td></td>
</tr>
<tr>
<td>CISC 130</td>
<td></td>
<td>CHEM 109</td>
<td></td>
<td>ENGR 371</td>
<td></td>
</tr>
</tbody>
</table>

**REQUIREMENTS FOR DEGREE**

ENGR 150 Introduction to Engineering (1 credit)
ENGR 171 Engineering Graphics and Design
ENGR 220 Statics
ENGR 221 Mechanics of Materials
ENGR 320 Machine Design and Synthesis
ENGR 322 Dynamics
ENGR 350 Introduction to Electronics
ENGR 361 Engineering Materials
ENGR 371 Manufacturing Processes and Statistical Control
ENGR 381 Thermodynamics
ENGR 382 Heat Transfer
ENGR 383 Fluid Mechanics
ENGR 410 Control Systems and Automation
ENGR 480 Engineering Design Clinic I
ENGR 481 Engineering Design Clinic II

**Allied Requirements:**
CHEM 109 General Chemistry for Engineers
MATH 113 Calculus I
MATH 114 Calculus II
MATH 200 Multi-Variable Calculus
MATH 210 Introduction to Differential Equations and Systems
CISC 130 Introduction to Programming and Problem Solving in the Sciences
PHYS 111 Classical Physics I
PHYS 112 Classical Physics II

Plus four engineering elective credits

All engineering majors are complex enough that prospective majors are requested to meet with an appropriate director early in their academic career to avoid problems.

Please direct questions about major requirements, and departmental policies and procedures to the current Department chair or program director.