# Bachelor of Science in Computer Engineering (BSCmpE) Degree
## Department of Engineering

Effective: Fall 2015

All engineering & technical elective courses must have a combined minimum GPA of 2.0.

Course sequencing follows the academic year, and assumes beginning the program in the fall semester.

The math and physics departments require a C or better in some pre-requisite courses. Please consult the bulletin.

For more information visit [http://www.engr.ipfw.edu](http://www.engr.ipfw.edu)

**Legends:**
- GE – General Education
- GE: A#, B#, C# General Education Category
- DC: Design Credit
- P: Prerequisite
- C: Co-requisite
- **P** = Prerequisite, **C** = Corequisite, **DC** = Design Content

<table>
<thead>
<tr>
<th>1st semester 15 credits</th>
<th>2nd semester 16 credits</th>
<th>3rd semester 16 credits</th>
<th>4th semester 15 credits</th>
<th>5th semester 16 credits</th>
<th>6th semester 16 credits</th>
<th>7th semester 13 credits</th>
<th>8th semester 13 credits</th>
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<tr>
<td><strong>MA 165 (4)</strong> P: MA 154 or MA 159 (C- or better), or placement GE: A3</td>
<td><strong>MA 166 (4)</strong> P: MA 165 (C- or better) GE: A3</td>
<td><strong>MA 261 (4)</strong> P: MA 166 (C- or better)</td>
<td><strong>MA 351 (3)</strong> P: MA 166 (C- or better)</td>
<td><strong>MA 175 (3)</strong> P: MA 165</td>
<td><strong>ECE 405 (3) or ENGR 410 (3)</strong> P: ECE 301, ECE 362 ECE 368 (and permission of the senior design advisor) DC GE: C8</td>
<td><strong>ECE 406 (3) or ENGR 411 (3)</strong> P: ECE 405 or ENGR 410 DC</td>
<td><strong>Sr Engineering Des II</strong> Computer Des &amp; Prototyp</td>
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<td><strong>CHM 115 (4)</strong> P: CHM 111 or 1 yr. H.S. C: MA 154 GE: B4</td>
<td><strong>PHYS 152 (5)</strong> C: MA 166 GE: B4</td>
<td><strong>PHYS 251 (5)</strong> P: PHYS 152 (C or better) C: MA 261</td>
<td><strong>MA 363 (3)</strong> P: MA 261(C- or better) or current enrollment in MA 351</td>
<td><strong>ECE 208 (1)</strong> P: ECE 293, ECE 255 DC</td>
<td><strong>ECE 485 (4)</strong> P: ECE 362, C: ECE 368 DC</td>
<td><strong>ECE 406 (3) or ENGR 411 (3)</strong> P: ECE 405 or ENGR 410 DC</td>
<td><strong>Sr Engineering Des II</strong> Computer Des &amp; Prototyp</td>
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<td><strong>ENGR 127 (4)</strong> C: MA 154</td>
<td><strong>ENGR 128 (4)</strong> P: ENGR 127 C: MA 165 C: ENG W 131 or COM 114</td>
<td><strong>ECE 201 (3)</strong> C: MA 261</td>
<td><strong>ECE 202 (3)</strong> P: ECE 201, C: MA 363 DC</td>
<td><strong>ECE 301 (3)</strong> P: ECE 293, ECE 292, CS 229 DC</td>
<td><strong>ECE 485 (4)</strong> P: ECE 362, C: ECE 368 DC</td>
<td><strong>ECE 437 (4)</strong> P: ECE 362, ECE 385 DC</td>
<td><strong>Sr Engineering Des II</strong> Computer Des &amp; Prototyp</td>
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<td><strong>ENG W131 (3)</strong> P: ENG W129 with C or better or placement</td>
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**Combined Minimum GPA:** 2.0

Anlytc Geomtry&Calc I General Chemistry Engineering Fund I Elem Composition I

Anlytc Geomtry&Calc II Mechanics Engineering Fund II Fundament Of Speech

Multivariate Calculus Heat Electricity & Optics Linear Circuit Anly I Intro Digid Sys Design

Elec Linear Algebra Differential Equations Linear Circuit Anly II Measure & Instrumentn Introduction to C/C++ Programming for ECE

Intr Electron Anly Des Signals And Systems Intro To VHDL Micropiro Sys & Intrfac Data Structures


**Group 1 or 2: Technical Elective (3)**

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