# Bachelor of Science in Civil Engineering (BSCE) Degree
## Department of Engineering

**Effective: Spring 2012**

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. Consult with the most recent bulletin at [http://bulletin.ipfw.edu](http://bulletin.ipfw.edu)

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

P = Pre-requisite, C = Co-Requisite

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<th>1st Semester 16 credits</th>
<th>2nd Semester 17 credits</th>
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<th>4th Semester 18 credits</th>
<th>5th Semester 16 credits</th>
<th>6th Semester 14 credits</th>
<th>7th Semester 14 credits</th>
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## Bachelor of Science in Civil Engineering

### 1st Semester (16 credits)
- **MA 165 (4)** P: MA 154 or MA 159 with C- or better or placement
- **CHM 115 (4)** P: CHM 111 or 1 yr. H.S. C: MA 154
- **ENGR 101 (1)**
- **ENGR 120 (2)** P: MA 154 or MA 159 or placement C: ENGR 120

### 2nd Semester (17 credits)
- **MA 166 (4)** P: MA 165 with C- or better
- **PHYS 152 (5)** C: MA 166
- **ENGR 199 (3)** P: ENGR 101 C: ENGR 121, PHYS 152
- **ENGR 221 (2)** or **CS 227 (2)** P: ENGR 101, ENGR 121
- **COM 114 (3)**

### 3rd Semester (18 credits)
- **MA 261 (4)** P: MA 166 with C- or better
  C: MA 351
- **MA 351 (3)** P: MA 166 with C- or better
- **PHYS 251 (5)** P: PHYS 152 with C- or better C: MA 261
- **CE 250 (3)** P: MA 165
- **CE 210 (3)** P: MA 165

### 4th Semester (18 credits)
- **CE 318 (3)** P: ME 200, CE 251, and MA 363
- **STAT 511 (3)** P: MA 166 with C- or higher
- **CE 251 (3)** P: MA 250
  C: MA 363
- **CE 252 (3)** P: CE 250
  C: MA 252
- **CE 253 (3)** P: CE 251
  C: CE 253
- **CE 315 (3)** P: MA 261
  C: MA 351
- **CE 316 (1)** P: ENGR 199 & junior standing

### 5th Semester (16 credits)
- **EC 418 (3)** P: CE 318
- **CE 418 (3)** P: CE 318
- **CE 366 (1)** P: CE 365
- **ENGR 401 (1)** C: Senior Standing
- **Technical Elective (3)**

### 6th Semester (14 credits)
- **CE 408 (3)** P: Senior standing and advisor approval.
- **ENGR 410 (1)** P: CE Design Project
- **ENGR 411 (1)** P: CE Design Project
- **Technical Elective (3)**

### 7th Semester (14 credits)
- **CE 487 (3)** P: Senior standing and advisor approval.
- **ENGR 410 (1)** P: CE Design Project
- **ENGR 411 (1)** P: CE Design Project
- **Technical Elective (3)**

### 8th Semester (15 credits)
- **Technical Elective (3)**
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### Total credit hours: 128

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### Key:
- **Math & Science**
- **Freshmen Engineering**
- **Civil Engineering**
- **Mechanical Engineering**
- **General Education**