Effective: Fall 2016
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, GE = General Education with Categories A, B, and C, and Competencies 1-8.

### EET Start
#### 1st Semester
- **MA 153 (3)**: Algebra & Trig. I
  - P: MA 113 or 111
  - *with C- or better or placement
- **ECET 111 (4)**: Digital Circuits
- **ECET 102 (4)**: C: MA 153
- **ECET 114 (3)**: Intro to Visual Basic

#### 2nd Semester
- **MA 154 (3)**: Algebra & Trig. II
  - P: MA 153 with C- or better or placement
- **ECET 146 (4)**: Digital Circuits II
  - P: ECET 111
  - C: MA 114 or CS 114
- **ECET 152 (4)**: Electrical Circuits I
  - P: CPET 101 or ECET 102 or ECET 107
  - C: MA 15400
- **CPET 190 (3)**: Electrical Circuits II
  - Prob. Solv. w/ MATLAB

#### 3rd Semester
- **MA 165 (4)**: Anly. Geometry & Calc. I
  - P: MA 154 or MA 159 with C- or better or placement
- **CHM 115 (4)**: General Chemistry
  - P: CHM 111 or 1 yr. H.S. Chem.
  - C: MA 154
- **ECET 204 (4)**: Analog Electronics II
  - P: ECET 152 or ECET 117, and MA 154
- **COM 114 (3)**: Fund of Speech Com.

#### 4th Semester
- **MA 166 (4)**: Any. Geometry & Calc. II
  - P: MA 165 with C- or better
- **PHYS 152 (5)**: Mechanics
  - P: PHYS 152 with C or better
  - C: MA 261
- **ECET 296 (3)**: Electronic Systems Fab.
  - P: ECET 204 or ECET 207
- **ENG W131 (3)**: General Education Elective (3)

#### 5th Semester
- **MA 261 (4)**: Multivariate Calculus
  - P: MA 166 with C- or better
- **PHYS 251 (5)**: Heat Electricity & Optics
  - P: PHYS 152 with C or better
  - C: MA 261
- **ECET 201 (3)**: Linear Circuit Analysis I
  - C: MA 261
- **ENGR 127 (4)**: Engr. Fundamentals I
  - P: MA 154

#### 6th Semester
- **MA 351 (3)**: Elem. Linear Algebra
  - P: MA 166 with C- or better
- **MA 363 (3)**: Differential Equations
  - P: MA 261 with C- or better
  - C: MA 351
- **ECET 202 (3)**: Linear Circuit Analysis II
  - P: ECET 201
  - C: MA 363
- **ECET 255 (3)**: Elect. Analysis & Design
  - P: ECET 201
- **CS 229 (4)**: Intro. to C/C++ Prog
  - P: ENGR 128 or CPET 190

### EE Major
#### 7th Semester
- **MA 351 (3)**
- **MA 363 (3)**
- **ECET 202 (3)**
- **ECE 255 (3)**
- **CS 229 (4)**

#### 8th Semester
- **ENGR 127 (4)**
- **ENGR 128 (4)**
- **CPET 190 (3)**
- **ENG W131 (3)**
- **COM 114 (3)**

### Key:
- Math & Science
- Freshmen Engineering
- Electrical Engineering
- Elect. & Comp. E T
- General Education

### Credit Given for:
- ENGR 128: MA 153/154, CPET 190 & ECET 111
- ECE 270: ECET 111 & 146 (plus a self-study module in Finite State Machines)
- ECE 293: ECET 102, 152 & 204

*An Associates in EET is completed with a one General Ed. B6 or B7 (whichever is not taken in 4th semester) and a Gen. Ed. B5. Students who start with these six semesters could also finish with the last two years of the Computer Engineering Degree Program.

*Beginning Fall 2017, a student must receive a B- or better or placement*

Revised Fall 2016
Students switching to the EET program will need to adjust courses as follows:

<table>
<thead>
<tr>
<th>switching after:</th>
<th>will need to complete:</th>
<th>have credit for:</th>
<th>Credit based on:</th>
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<tbody>
<tr>
<td>Semester 1</td>
<td>MA 159</td>
<td>MA 153</td>
<td>MA 153</td>
</tr>
<tr>
<td>Semester 2</td>
<td>None</td>
<td>MA 159</td>
<td>MA 153/154</td>
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<tr>
<td>Semester 3</td>
<td>None</td>
<td>MA 227</td>
<td>MA 165</td>
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<td>CHM 111</td>
<td>CHM 115</td>
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<tr>
<td>Semester 4</td>
<td>Gen. Ed. Electives (B.5 – IET 105 Industrial Practices)</td>
<td>MA 228</td>
<td>MA 166 &amp;/or</td>
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<tr>
<td></td>
<td>Gen. Ed. Electives (B.6)</td>
<td>PHYS 218</td>
<td>PHYS 152</td>
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<td>Gen. Ed. Electives (B.7)</td>
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