

Electrical Engineering Technology/Electrical Engineering 2/3 Degree
Department of Electrical and Computer Engineering



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>. For more information visit <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 14 credits	MA 153 (3) P: MA 113 or 111 *with C- or better or placement GE A3 Algebra & Trig. I	ECET 111 (4) Digital Circuits	ECET 102 (4) C: MA153 Electrical Circuits I	ECET 114 (3) Intro to Visual Basic	
	2nd Semester 17 credits	MA 154 (3) P: MA 153 with C- or better or placement Algebra & Trig. II	ECET 146 (4) P: ECET 111 C: ECET 114 or CS 114 Digital Circuits II	ECET 152 (4) P: CPET 101 or ECET 102 or ECET 107 C: MA 15400 Electrical Circuits II	CPET 190 (3) P: MA 153 and ECET 114 or CS 114 Prob. Solv. w/ MATLAB	ENG W131 (3) P: ENG W129 w/ C or better or placement GE A1 Elementary Comp.
EET/EE Transition	3rd Semester 15 credits	MA 165 (4) P: MA 154 or MA 159 with C- or better or placement GE A3 Anly. Geometry & Calc. I	CHM 115 (4) P: CHM 111 or 1 yr. H.S. Chem. C: MA 154 General Chemistry GE B4	ECET 204 (4) P: ECET 152 or ECET157, and MA 154 Analog Electronics II	COM 114 (3) Fund of Speech Com. GE A2	Note : ENG W131 & COM 114 can each be moved back one semester and the GE elective taken later.
	4th Semester 15 credits	MA 166 (4) P: MA 165 with C- or better Anly. Geometry & Calc. II	PHYS 152 (5) C: MA 166 Mechanics GE B4	ECET 296 (3) P: ECET 204 or ECET 207 Electronic Systems Fab.	General Education Elective (3) GE B6 or B7	
EE Major	5th Semester 16 credits	MA 261 (4) P: MA 166 with C- or better Multivariate Calculus	PHYS 251 (5) P: PHYS 152 with C or better) C: MA 261 Heat Electricity & Optics	ECE 201 (3) C : MA 261 Linear Circuit Analysis I	ENGR 127 (4) C: MA 154 Engr. Fundamentals I	
	6th Semester 16 credits	MA 351 (3) P: MA 166 with C- or better Elem. Linear Algebra	MA 363 (3) P: MA 261 with C- or better C: MA 351 Differential Equations	ECE 202 (3) P: ECE 201 C: MA 363 Linear Circuit Analysis II	ECE 255 (3) P: ECE 201 Elect. Analysis & Design	CS 229 (4) P: ENGR 128 or CPET 190 Intro. to C/C++ Prog
Semester 7 – 10: Complete last two years of the Electrical Engineering Degree (one GE B6 or B7 elective is already satisfied)						

Key: Math & Science Freshmen Engineering Electrical Engineering Elect. & Comp. ET General Education

Credit Given for:

- ENGR 128
- ECE 270
- ECE 293

Based on:

- MA 153/154, CPET 190 & ECET 111
- ECET 111 & 146 (plus a self-study module in Finite State Machines)
- ECET 102, 152 & 204

An Associate 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

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

To match standard EET Bingo sheet progression students ...			
switching after:	will need to complete:	have credit for:	Credit based on:
Semester 1	MA 159	MA 153	MA 153
Semester 2	None	MA 159	MA 153/154
Semester 3	None	MA 227 CHM 111	MA 165 CHM 115
Semester 4	Gen. Ed. Electives (B.5 – IET 105 Industrial Practices) Gen. Ed. Electives (B.6) Gen. Ed. Electives (B.7)	MA 228 PHYS 218	MA 166 &/or PHYS 152