

Bachelor of Science in Electrical Engineering (BSEE) Degree Department of Engineering



Effective date: Fall 2011

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.

For more information visit <http://ipfw.edu/engineering/>

P = Prerequisite, C = Corequisite, DC = Design Content

1 st semester 16 credits	MA 165 (4) P: MA 154 or MA 159 (C or better), or placement	CHM 115 (4) P: CHM 111 or 1 yr. H.S. C: MA 153 or MA 151	ENGR 101 (1)	ENGR 120 (2) P: MA 153 Area V	ENGR 121 (2) P: MA 154 or MA 159 (C or better), or placement C: ENGR 120	ENG W131 (3) P: ENG W130 (C or better) or placement
	Anlytc Geomtry&Calc I	General Chemistry	Intro To Engineering	Graph Com & Spatl Anly	Cmptr Tools For Engr	Elem Composition I
2 nd semester 15 credits	MA 166 (4) P: MA 165 (C or better)	PHYS 152 (5) C: MA 166	ENGR 199 (3) P: ENGR 101 C: ENGR 121,PHYS 152 DC	COM 114 (3) C or better		
	Anlytc Geomtry&Calc II	Mechanics	Intro To Engr Design	Fundament Of Speech		
3 rd semester 18credits	MA 261 (4) P: MA 166 (C or better)	MA 351 (3) P: MA 166 (C or better)	PHYS 251 (5) P: PHYS 152 C: MA 261	ECE 201 (3) C: MA 261	CS 227 or ENGR 221 (2) P: ENGR 101, ENGR 121	CS 228 or ENGR 222 (1) C: ENGR 221
	Multivariate Calculus	Elem Linear Algebra	Heat Electricity & Optics	Linear Circuit Anly I	C & C++ Prog for Engr	Object Orient Program
4 th semester 15 credits	MA 363 (3) P: MA 261 and MA 351	ECE 202 (3) P: ECE 201 C: MA 363 DC	ECE 255 (3) P: ECE 201 DC	ECE 270 (4) P: ENGR 199 DC	ECE 293 (2) P: ECE 201, COM 114, ENG W 131	
	Differential Equations	Linear Circuit Anly II	Intr Electron Anly Des	Intro Digitl Sys Desgn	Measure & Instrumentn	
5 th semester 16 credits	MA 275 (3) P: MA 261	ECE 208 (1) P: ECE 293 C: ECE 255 DC	ECE 301 (3) P: ECE 202	ECE 324 (3) P: PHYS 251, ECE 255 C: ECE 208 DC	ME 253 (3) P: MA 261, PHYS 152	General Education Elective (3) Area III
	Intermed Discrete Math	Electron Dev & Des Lab	Signals And Systems	Intro Energy Sys	Statics/Dynamics	
6 th semester 16 credits	ECE 302 (3) P: MA 363 C: ECE 301	ECE 311 (3) P: MA 363, PHYS 251	ECE 333 (3) P: ECE 301, ME 253 DC	ECE 362 (4) P: ECE 270, ECE 293 CS 227 or ENGR 221 DC	ECON E201 (3) Area III	
	Probabilistic Methods	Elec & Magnetic Fields	Fdbk Sys Anly & Design	Micropro Sys & Intrafc	Intro To Microeconomic	
7 th semester 15 credits	ECE 405 (3) or ENGR 410 (3) P: ECE 301, ECE 208, ECE 362 (and permission of the senior design advisor) DC	ECE 428 (3) P: ECE 301, ECE 302 DC	ECE 436 (3) P: ECE 301 DC	Technical Elective (3)	General Education Elective (3) Area IV	
	Sr Engineering Des I	Modern Commun Syst	Digital Signal Process			
8 th semester 15 credits	ECE 406 (3) or ENGR 411 (3) P: ECE 405 or ENGR 410 DC	Electrical Engineering Elective (3) DC	Technical Elective (3) DC	General Education Elective (3) Area IV	General Education Elective (3) Area VI	
	Sr Engineering Des II					