

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



Effective date: **Fall 2007**

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://www.engr.ipfw.edu>

P = Prerequisite, C = Corequisite, D = Design Credits

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) Area V	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	Cmpr 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 D: 2	COM 114 (3) C or better		
	Anlytc Geomtry&Calc II	Mechanics	Intro To Engr Design	Fundament Of Speech		
3 rd semester 18 credits	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	ENGR 221 (2) P: ENGR 101, ENGR 121	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 D: 0.3	ECE 270 (4) P: ENGR 199 D: 1	ECE 293 (2) P: ECE 201, COM 114, ENG W 131	ME 200 (3) C: MA 261	
	Differential Equations	Linear Circuit Anly II	Intro Digitt Sys Desgn	Measure & Instrumentn	Thermodynamics I	
5 th semester 16 credits	MA 275 (3) P: MA 261	ECE 301 (3) P: ECE 202	ECE 358 (3) P: ECE 270, ENGR 221 D: 1	ECE 387 (3) P: ECE 201, ENGR 199, ENGR 221 C: ME 200 or ME 250 D: 1	ECE 388 (1) C: ECE 387 D: 0.5	ECE 368 (3) P: ENGR 222 D: 1.5
	Intermed Discrete Math	Signals And Systems	Intro To VHDL	Elec & Sys Engr Robotc	Elec&Sys Eng Robot Lab	Data Structures
6 th semester 16 credits	ECE 302 (3) P: MA 363, ECE 301	ECE 362 (4) P: ECE 270, ECE 293, ECE 388 D: 2	General Education Elective (3) Area III	ECON E201 (3) Area III	General Education Elective (3) Area IV	
	Probabilistic Methods	Micropro Sys & Infrac		Intro To Microeconomic		
7 th semester 16 credits	ECE 405 (3) or ENGR 410 (3) P: ECE 301, ECE 362, ECE 368, MA 275 (or permission of the senior design advisor) D: 2.5	ECE 495 (4) P: ECE 362, ECE 368 D: 2.5	Computer Engineering Elective (3)	Technical Elective (3)	General Education Elective (3) Area IV	
	Sr Engineering Des I	Embedd Real-Time OS				
8 th semester 16 credits	ECE 406 (3) or ENGR 411 (3) P: ECE 405 or ENGR 410 D: 3	ECE 437 (4) P: ECE 362, ECE 358 D: 2	Computer Engineering Elective (3)	Technical Elective (3)	General Education Elective (3) Area VI	
	Sr Engineering Des II	Computer Des&Prototyp				

Revised March 2007

Total credit hours 128