

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



Effective date: Fall 2005

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	COM 114 (3) C or better
2 nd semester 17 credits	MA 166 (4) P: MA 165 (C or better)	PHYS 152 (5) C: MA 166	ENGR 122 (2) P: ENGR 121 C: ENGR 101	ENGR 199 (3) P: ENGR 101 C: ENGR 121, PHYS 152 D: 2	ENG W131 (3) P: ENG W130 (C or better) or placement	
3 rd semester 15 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		
4 th semester 15 credits	MA 363 (3) P: MA 261 and MA 351 (C or better)	ECE 202 (3) P: ECE 201 C: MA 363 D: 0.3	ECE 207 (1) P: ECE 201	ECE 270 (4) P: ENGR 199 D: 1	ECE 280 (3) P: ECE 201, ENGR 199 D: 1	ECE 281 (1) C: ECE 280 D: 0.5
5 th semester 17 credits	MA 275 (3) P: ECE 270, MA 363	ECE 255 (3) P: ECE 201 D: 1	ECE 208 (1) P: ECE 207 C: ECE 255 D: 0.5	ECE 301 (3) P: ECE 202, ECE 270	ECE 362 (4) P: ECE 270, ECE 280, ENGR 199 D: 2	ME 200 (3) C: MA 261 or ME 250 (3) P: PHYS 152 C: MA 261
6 th semester 15 credits	ECE 302 (3) P: MA 363	ECE 311 (3) P: MA 363, PHYS 251	ECE 382 (3) P: ECE 301 D: 1	General Education Elective (3) Area III	ECON E201 (3) Area III	
7 th semester 15 credits	ECE 405 (3) or ENGR 410 (3) P: ECE 311, ECE 301, ECE 302, ME 200 or ME 250 D: 2.5	ECE 436 (3) P: ECE 301 D: 1	Electrical Engineering Elective (3)	Technical Elective (3)	General Education Elective (3) Area IV	
8 th semester 15 credits	ECE 406 (3) or ENGR 411 (3) P: ECE 405 or ENGR 410 D: 3	Electrical Engineering Elective (3) D: 1	Technical Elective (3) D: 1	General Education Elective (3) Area IV	General Education Elective (3) Area VI	