

BSCE Degree
Department of Engineering



Starting Date: Fall 2006

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.

P = Pre-requisite, C = Co-Requisite or Pre-requisite

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

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 MA159 (C or better), or placement C: ENGR 120	ENGR W131 (3) P: ENG W130 (C or better), or placement
2 nd Semester 18 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	COM 114 (3) (C or better)	General Education (3) Area III	
3 rd Semester 17 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	ME 250 (3) P: PHYS 152 C: MA 261	ENGR 221 (2) P: ENGR 101, ENGR121	
4 th Semester 15 credits	MA 363 (3) P: MA 351	ME 251 (3) P: ME 250 C: MA 363	ME 200 (3) C: MA 261	ME 252 (3) P: ME 250 C: MA 363	CE 200 (3) P: ENGR 120 Surveying	
5 th Semester 16 credits	CE 340 (3) P: ME 251 Hydraulics	CE 371 (3) P: ME 252 Structural Analysis	ME 303 (2) P: CHM 115, PHYS 251) C: ME252	ME 293 (2) P: COM114, ENG W131	CE 303 (3) P: CE 200) Route and Construction Surveying	ECON E 201 (3) Area III
6 th Semester 14 credits	CE 343 (1) C: CE 340 Hydraulics Lab	CE 473 (3) P: CE 371 Theory of Reinforced Concrete	ME 304 (1) P: ME 282, ME 303	CE 392 (3) P: MA 261 Stochastics	CE 383 (3) P: ME 252, C: ME 303 Geotechnical Engineering	General Education (3) Area IV
7 th Semester 16 credits	CE 350 (3) Environmental Engineering	CE 474 (1) C: CE 473 Theory of Reinforced Concrete Lab	CE 487 (3) or ENGR 410 (3) P: CE 473 Civil Engineering Design I	Tech. Elec. (3)	CE 361 (3) Transportation Engineering	Tech. Elec. (3)
8 th Semester 15 credits	Tech. Elec. (3)	Tech. Elec. (3)	CE 488 (3) or ENGR 411 (3) P: CE 487 or ENGR 410 Civil Engineering Design II	General Education (3) Area IV	General Education (3) Area VI	

Total credit hours: 127