

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

All engineering & technical elective courses must be completed with a combined minimum GPA of 2.0

All courses being taken as General Education courses must earn a grade of C- or better to qualify.

Effective: Fall 2022

Course sequencing follows the academic year, and assumes beginning the program in the fall semester.

For more information visit the ECE Department website.

P = Prerequisite, C = Co-requisite, DC = Design Content

1 st semester 15 credits	MA 16500 (4) P: MA 15400 or MA 15900 (C- or better), or placement	CHM 11500 (4) P: CHM 11100 or 1 yr. H.S. C: MA 15400	ENGR 12700 (4) C: MA 16500	ENGL 13100 (3) P: ENGL 12900 (C or better) or placement		
	Anly. Geometry & Calc. I GenEd A3	General Chemistry GenEd B4	Engr. Fundamentals I	Elem. Composition I GenEd A1		
2 nd semester 16 credits	MA 16600 (4) P: MA 16500 (C- or better)	PHYS 15200 (5) C: MA 16600	ENGR 12800 (4) P: ENGR 12700 (C- or better) C: MA 16500, ENGL 13100, or COM 11400 DC	COM 11400 (3) (C or better)		
	Anly. Geometry & Calc. II GenEd A3	Mechanics GenEd B4	Engr. Fundamentals II	Fundament. of Speech GenEd A2		
3 rd semester 16 credits	MA 26100 (4) P: MA 16600 (C- or better)	PHYS 25100 (5) P: PHYS 15200 (C or better) C: MA 26100	ECE 20100 (3) C: MA 26100	ECE 22900 (4) P: ENGR 12800 or equivalent course of computer programming		
	Multivariate Calculus	Heat Electricity & Optics GenEd B7	Linear Circuit Anly. I	Intro. to C/C++ Prog.		
4 th semester 17 credits	MA 36300 (3) P: MA 26100 or MA 26300 (C- or better) C: MA 35100 (C- or better) or current enrollment in MA 35100	MA 35100 (3) P: MA 16600 (C- or better)	ECE 20200 (3) P: ECE 20100 C: MA 36300 DC	ECE 20700 (1) P: ECE 20100 DC	ECE 25500 (3) P: ECE 20100 DC	ECE 27000 (4) C: ENGR 12800 or equivalent course of computer programming
	Differential Equations	Elem. Linear Algebra	Linear Circuit Anly. II	Elect. Measure. Tech.	Intr. Electron Anly. Des.	Intr. Digitl Sys. Desgn.
5 th semester 12 credits	ECE 20800 (1) P: ECE 25500, ECE 20700 DC	ECE 30100 (3) P: ECE 20200	Technical Elective (3) DC	Technical Elective (3)	ME 25300 (2) P: MA 26100, PHYS 15200	
	Electron. Dev. Des. Lab	Signals & Systems	Group I	Group II	Statics & Dynamics	
6 th semester 16 credits	ECE 30200 (3) P: MA 36300 C: ECE 30100	ECE 31100 (3) or PHY31200 (3) P: MA 36300, PHYS 25100	ECE 33300 (3) P: ECE 30100, ME 25300 DC	ECE 36200 (4) P: ECE 27000, ECE 20700, ECE 22900 DC	General Education Elective (3)	
	Probabilistic Methods	Elec. & Magnetic Fields	Automatic Control Sys.	Micropro. Sys & Infrac.	GenEd B5	
7 th semester 12 credits	ECE 40500 (3) Senior standing in the program and permission of the senior design project advisor DC GenEd C8	ECE 42800 (3) P: ECE 30100, ECE 30200 DC	ECE 43600 (3) P: ECE 30100 DC	Technical Elective (3) DC	Civics Literary Requirements *	
	Sr. Engr. Design I	Modern Commun. Syst.	Digital Signal Process.	Group I		
8 th semester 16 credits	ECE 40601 (2) P: ECE 40500 C: 40602 DC	ECE 40602 (1) C: ECE40601	Technical Elective (3) DC	Technical Elective (3)	General Education Elective (3)	ECE 46000 (4) P: ECE 20200, ECE 25500 DC
	Sr. Engr. Design II	ECE Seminar	Group I	Group II	GenEd B6	Power Electronics

Revised: September 2021

Total Credits: 120

*Students also need to fulfil the requirements of Purdue University Fort Wayne Civics Literary.