

Students must earn an overall graduation GPA of at least 2.000

https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/Curriculum_Resources/BSEE-Fall_2013/BSEE_Degree_Information

Major Courses (47 credits) [An overall 2.000 cumulative GPA or better in these courses is required]

Required ECE Courses (28 cr.)

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|--|--|
| _____ (0) ECE 20000 ECE Sophomore Seminar | _____ (4) ECE 27000 Introduction to Digital System Design |
| _____ (3) ECE 20100 Linear Circuit Analysis I | _____ (3) ECE 30100 Signals and Systems |
| _____ (3) ECE 20200 Linear Circuit Analysis II | _____ (3) ECE 30200 Probabilistic Methods in ECE |
| _____ (1) ECE 20700 Electronic Measurement Techniques | _____ (3) ECE 31100 Electric & Magnetic Fields |
| _____ (1) ECE 20800 Electronic Devices and Design Lab | _____ (1) ECE 40000 Pro. Development and Career Guidance |
| _____ (3) ECE 25500 Electronic Circuit Analysis and Design | _____ (3) ECE 40200 Electrical Engineering Design Projects |

Adv. EE Selectives - Select 3 of the following courses (9-11 cr.)

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|---|---|
| _____ (3) ECE 30500 Semiconductor Devices | _____ (3) ECE 32100 Electromechanical Motion Devices |
| _____ (4) ECE 36200 Microprocessor Systems and Interfacing | _____ (4) ECE 38200 Feedback System Analysis and Design |
| _____ (4) ECE 43800 Digital Signal Processing <u>OR</u> ECE 44000 Transmission of Information | |

Other Electrical Engineering Course Requirements (7-10 cr.)

(Must include 3 upper level labs – fewer if chosen Adv EE Selectives include ECE 36200 and/or ECE 43800/44000)

- _____ () _____ () _____ () _____ () _____

Other Department/Program Course Requirements (67 credits)

General Engineering Requirement (10 cr.)

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|--|--|
| _____ (2) ENGR 13100 Transforming Ideas to Innovation I | _____ (2) ENGR 13200 Transforming Ideas to Innovation II |
| _____ (3) CS 15900 C Programming for Engineers | |
| _____ (3) Engineering Breadth Selective (see link above) | |

Mathematics Requirement (18 cr.)

- | | |
|--|--|
| _____ (4) MA 16500 Analytic Geometry and Calculus I (satisfies <i>Quantitative Reasoning Selective</i> for core) | |
| _____ (4) MA 16600 Analytic Geometry and Calculus II | _____ (4) MA 26100 Multivariate Calculus |
| _____ (3) MA 26600 Ordinary Differential Equations | _____ (3) MA 26500 Linear Algebra |

Science Requirement (15 cr.)

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|---|
| _____ (4) CHM 11500 General Chemistry (<i>satisfies Science Selective for core</i>) |
| _____ (4) PHYS 17200 Modern Mechanics (<i>satisfies Science Selective for core</i>) |
| _____ (4) PHYS 27200 Electric and Magnetic Interactions |
| _____ (3) ECE Science Selective (see link above) |

ECE General Education Requirement (24 cr.) (see link above)

Foundational Core (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)

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|---|
| _____ (4) ENGL 10600 First-Year Composition (<i>satisfies Information Literacy and Written Communication Selectives for core</i>) |
| _____ (3) _____ (<i>satisfies Oral Communication for core</i>) |
| _____ (3) _____ (<i>satisfies Human Cultures: Humanities for core</i>) |
| _____ (3) _____ (<i>satisfies Human Cultures: Behavioral/Social Science for core</i>) |
| _____ (3) _____ (<i>satisfies Science, Technology & Society Selective for core</i>) |

ECE General Education Electives

- _____ () _____ () _____ () _____ () _____

Electives (10 credits)

- _____ () _____ () _____ () _____ () _____

University Core Requirements (included above) (<http://www.purdue.edu/provost/initiatives/curriculum/course.html>)

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

Electrical Engineering

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Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
2	ENGR 13100**	MA 16100/16500 (taken concurrently)	2	ENGR 13200**	ENGR 13100
4	MA 16500*		4	MA 16600**	MA 16100 or 16500
3	CS 15900**	ENGR 13100 (taken concurrently)	4	PHYS 17200*	MA 16100 or 16500 (taken concurrently)
4	CHM 11500*	MA 16100 or 16500 (taken concurrently)	4	ENGL 10600*	MA 16100 or 16500 (taken concurrently)
3	COM 11400*		3	Foundational GenEd*	
16			17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
0	ECE 20000	Soph Standing	3	ECE 20200	ECE 20100 (Min Grade of C); MA 26200/26600 (taken concurrently)
3	ECE 20100	ENGR 13100, PHYS 17200, MA 16200/16600 (Min grade of C-)	1	ECE 20800	ECE 20700, ECE 25500 (taken concurrently)
1	ECE 20700	ECE 20100 (taken concurrently)	3	ECE 25500	ECE 20100 (Min grade of C), MA 26100
4	MA 26100**	MA 16200 or 16600	4	ECE Sci Selective**	
4	PHYS 27200**	PHYS 17200, MA 16200 or 16600 (taken concurrently)	3	MA 26600**	MA 26100
3	Foundational GenEd*	Depends on choice of course	3	Foundational GenEd*	Depends on choice of course
15			17		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	ECE 27000	ECE 20100 (taken concurrently)	3	ECE 30200	MA 26200 or 26600, ECE 30100 (taken concurrently)
3	ECE 30100	ECE 20200 (min grade of C), MA 26200 or 26600	3	ECE 31100	ECE 20100, PHYS 27200, MA 26200 or 26600
1	ECE 40000	ECE 20000, Sem. Class. of 5 or higher	3	Adv. EE Selective	Depends on choice of course
3	Adv. EE Selective	Depends on choice of course	1	ECE Elective (lab)	Depends on choice of course
1	ECE Elective	Depends on choice of course	3	MA 26500**	MA 16200 or 16600, MA 26100 (taken concurrently)
2	Complimentary Ele**	Depends on choice of course	3	ECE GenEd Elective**	Depends on choice of course
14			16		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	ECE 40200	EE Core curriculum	4	Adv. EE Selective w/lab	Depends on choice of course
3	ECE Elective	Depends on choice of course	4	ECE Elective w/lab	Depends on choice of course
3	ECE GenEd Elective**	Depends on choice of course	3	ECE GenEd Elective**	Depends on choice of course
3	Complimentary Ele.**	Depends on choice of course	3	Complimentary Ele.**	Depends on choice of course
3	Engr. Breadth Ele.**	Depends on choice of course			
15			14		

*Satisfies a University Core Requirement

**Satisfies a Non-departmental Major Course Requirement

124 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

Revised 6/2014 (effective Fall 2013)

