

Students must earn an overall graduation GPA of at least 2.000

**Major Courses (49 credits)** (<https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/bscmpe.pdf>)

(An overall 2.000 cumulative GPA or better in these courses is required)

Required ECE Courses (47 cr.)

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|---|--|
| _____ (0) ECE 20000 ECE Sophomore Seminar   | _____ (3) ECE 30100 Signals and Systems                    |
| _____ (3) ECE 20100 Linear Circuit Analysis I   | _____ (3) ECE 30200 Probabilistic Methods in ECE           |
| _____ (3) ECE 20200 Linear Circuit Analysis II  | _____ (2) ECE 33700 ASIC Design Laboratory                 |
| _____ (1) ECE 20700 Electronic Measurement Techniques   | _____ (4) ECE 36200 Microprocessor Systems and Interfacing |
| _____ (1) ECE 20800 Electronic Devices and Design Lab   | _____ (1) ECE 36400 Microprocessor Systems and Interfacing |
| _____ (3) ECE 25500 Electronic Circuit Analysis and Design  | _____ (3) ECE 36800 Data Structures                        |
| _____ (3) ECE 26400 Advanced C Programming  | _____ (1) ECE 40000 Pro. Development and Career Guidance   |
| _____ (4) ECE 27000 Introduction to Digital System Design   | _____ (4) ECE 43700 Computer Design and Prototyping        |
| _____ (4) ECE 46800 Intro to Compilers & Trans. Engr. <u>OR</u> ECE 46900 Operating Systems Engineering |  |
| _____ (4) ECE 47700 Digital Systems Senior Project  |  |

Computer Engineering Selective (2 cr.) (<https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/CourseInfo/coursesBSCmpEElectives>)

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**Other Department/Program Course Requirements (70 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 ( <a href="https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/eng.pdf">https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/eng.pdf</a> ) |  |

Mathematics Requirement (21 cr.)

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|--|--|
| _____ (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 Diff. Eqns   | _____ (3) MA 26500 Linear Algebra        |
|  | _____ (3) ECE 36900 Discrete Math        |

Science Requirement (15 cr.)

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|---|--|
| _____ (4) CHM 11500 General Chemistry (satisfies <i>Science Selective</i> for core)   |  |
| _____ (4) PHYS 17200 Modern Mechanics (satisfies <i>Science Selective</i> for core)   |  |
| _____ (4) PHYS 27200 Electric and Magnetic Interactions   |  |
| _____ (3) ECE Science Selective ( <a href="https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/sci.pdf">https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/sci.pdf</a> ) |  |

ECE General Education Requirement (24 cr.)

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

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

ECE General Education Electives (<https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/CourseInfo/coursesGEE#LIST>)

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**Complementary Electives (6 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"/>	_____			

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

**Degree Works is knowledge source for specific requirements and completion**

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## Computer Engineering

<https://engineering.purdue.edu/ECE/Academics/Undergraduates/UGO/pdf/BSCMPE%20Sample%20Plan.pdf>

### 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*	Calculus ready	4	MA 16600**	MA 16100 or 16500
4	CHM 11500*	MA 16100 or 16500 (taken concurrently)	3	CS 15900**	ENGR 13100 (taken concurrently)
4	PHYS 17200*	MA 16100 or 16500 (taken concurrently)	4	ECE Sci. Selective**	Depends on choice of course
3	COM 11400*	none	4	ENGL 10600*	none
<b>17</b>			<b>17</b>		

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 162/166 (Min grade of C-)	4	ECE 27000	ECE 20100 (taken concurrently)
1	ECE 20700	ECE 20100 (taken concurrently)	3	ECE 36800	ECE 26400 (Min grade of C)
3	ECE 26400	CS 15900 (Min grade of C-)	3	MA 26600**	MA 26100
4	MA 26100**	MA 16200 or 16600	3	Foundational GenEd*	Depends on choice of course
4	PHYS 27200**	PHYS 17200, MA 16200 or 16600 (taken concurrently)			
<b>15</b>			<b>16</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
1	ECE 20800	ECE 207, ECE 25500 (taken concurrently)	3	ECE 30200	MA 26200 or 26600, ECE 30100 (taken concurrently)
3	ECE 25500	ECE 20100 (Min grade of C), MA 26100	2	ECE 3370	ECE 27000 (Min grade of C)
3	ECE 30100	ECE 20200 (min grade of C), MA 26200 or 26600	1	ECE 36400	ECE 26400
4	ECE 36200	CS 15900, ECE 27000 (Min grade of C)	3	ECE 36900	ECE 27000
3	Foundational GenEd*	Depends on choice of course	3	Foundational GenEd*	Depends on choice of course
			3	ECE GenEd Elective**	Depends on choice of course
<b>14</b>			<b>15</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
1	ECE 40000	ECE 20000, Sem. Class. of 6 or higher	2	Computer Engr. Elective	Depends on choice of course
4	Adv. CmpE 43700/46800	ECE 33700 & 36200 OR ECE 36200 & 36800	4	Adv. CmpE 43700/46900	ECE 33700 & 36200 OR ECE 36200 & 43700
4	ECE 47700	CmpE Core Curriculum	3	Engr. Breadth Ele.**	Depends on choice of course
3	MA 26500**	MA 16200 or 16600, MA 26100 (taken concurrently)	3	ECE GenEd Elective**	Depends on choice of course
3	ECE GenEd Elective**	Depends on choice of course	4	Complimentary Ele.**	Depends on choice of course
<b>15</b>			<b>16</b>		

\*Satisfies a University Core Requirement

\*\*Satisfies a Non-departmental Major Course Requirement

**125 semester credits required for Bachelor of Science degree.  
2.0 Graduation GPA required for Bachelor of Science degree.**

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

**Degree Works is knowledge source for specific requirements and completion**

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Revised 5/2014 (effective Fall 2014)