

**First Year Engineering Courses (31 credits)** <https://engineering.purdue.edu/ENE/InfoFor/CurrentStudents/FYEPlan>

- \_\_\_\_\_ (4) CHM 11500 General Chemistry I (*satisfies Science Selective for core*)
- \_\_\_\_\_ (4) CHM 11600 General Chemistry II (*satisfies FYE Science Selective*)
- \_\_\_\_\_ (3) COM 11400 Fundamentals of Speech (*satisfies Oral Communication for core*)
- \_\_\_\_\_ (4/3) ENGL 10600 English Composition or ENGL 10800 Accelerated English Composition  
(*satisfies Written Communication for core*)
- \_\_\_\_\_ (2/3.5) ENGR 13100 Transforming Ideas to Innovation I or ENGR 14100 Honors Innovation & Creativity in Engineering Design I  
(*satisfies Information Literacy for core*)
- \_\_\_\_\_ (2/3.5) ENGR 13200 Transforming Ideas to Innovation II or ENGR 14200 Honors Innovation & Creativity in Engineering Design II
- \_\_\_\_\_ (4/5) MA 16500/16100 Calculus I (*satisfies Quantitative Reasoning for core*)
- \_\_\_\_\_ (4/5) MA 16600/16200 Calculus II
- \_\_\_\_\_ (4) PHYS 17200 Mechanics (*satisfies FYE Science Selective*)

**Chemical Engineering Major Courses (81 credits)** [https://engineering.purdue.edu/ChE/Academics/Undergrad/degree\\_requirements](https://engineering.purdue.edu/ChE/Academics/Undergrad/degree_requirements)

**ChE Core Courses (41 credits)**

- \_\_\_\_\_ (0) CHE 20000 ChE Sophomore Seminar
- \_\_\_\_\_ (4) CHE 20500 ChE Calculations
- \_\_\_\_\_ (4) CHE 21100 Intro ChE Thermodynamics
- \_\_\_\_\_ (0) CHE 30000 ChE Junior Seminar
- \_\_\_\_\_ (3) CHE 30600 Design of Staged Separation Processes
- \_\_\_\_\_ (3) CHE 32000 Statistical Modeling & Quality Enhancement
- \_\_\_\_\_ (4) CHE 34800 Chemical Reaction Engineering
- \_\_\_\_\_ (4) CHE 37700 Momentum Transfer
- \_\_\_\_\_ (4) CHE 37800 Heat & Mass Transfer
- \_\_\_\_\_ (1) CHE 40000 ChE Senior Seminar
- \_\_\_\_\_ (3) CHE 42000 Process Safety Management
- \_\_\_\_\_ (4) CHE 43500 ChE Laboratory
- \_\_\_\_\_ (4) CHE 45000 Design & Analysis of Processing Systems
- \_\_\_\_\_ (3) CHE 45600 Process Dynamics & Control

**ChE Science Core (18 credits)**

- \_\_\_\_\_ (3) CHM 26100 Organic Chemistry I
- \_\_\_\_\_ (1) CHM 26300 Organic Chemistry Laboratory I
- \_\_\_\_\_ (3) CHM 26200 Organic Chemistry II
- \_\_\_\_\_ (1) CHM 26400 Organic Chemistry Laboratory II
- \_\_\_\_\_ (3) CHM 37000 Physical Chemistry
- \_\_\_\_\_ (4) MA 26100 Multivariate Calculus
- \_\_\_\_\_ (3) PHYS 24100 Electricity & Optics

**ChE Selectives - Select course for each requirement. (22 credits)**

[https://engineering.purdue.edu/ChE/Academics/Undergrad/degree\\_requirements](https://engineering.purdue.edu/ChE/Academics/Undergrad/degree_requirements)

- \_\_\_\_\_ (3) \_\_\_\_\_ Biology Selective
- \_\_\_\_\_ (3) \_\_\_\_\_ Chemical Engineering Selective
- \_\_\_\_\_ (3) \_\_\_\_\_ Engineering Selective
- \_\_\_\_\_ (3) \_\_\_\_\_ Engineering Selective
- \_\_\_\_\_ (3/4) \_\_\_\_\_ Math Selective I
- \_\_\_\_\_ (3/4) \_\_\_\_\_ Math Selective II
- \_\_\_\_\_ (3) \_\_\_\_\_ Technical Selective

**General Education Electives (18 credits)** <https://engineering.purdue.edu/ENE/InfoFor/CurrentStudents/genedcourses>

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|--|-----------------|
| _____ (3) _____ <i>Human Cultures Humanities</i>                   | _____ (3) _____ |
| _____ (3) _____ <i>Human Cultures Behavioral/Social Science</i>    | _____ (3) _____ |
| _____ (3) _____ <i>Science, Technology &amp; Society Selective</i> | _____ (3) _____ |

**University Core Requirements** <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

<i>Human Cultures Humanities</i>	_____	<i>Science, Technology &amp; Society Selective</i>	_____
<i>Human Cultures Behavioral/Social Science</i>	_____	<i>Written Communication</i>	_____ ENGL 10600 or ENGL 10800
<i>Information Literacy</i>	_____ ENGR 13100 or ENGR 14100	<i>Oral Communication</i>	_____ COM 11400
<i>Science Selective</i>	_____ CHM 11500	<i>Quantitative Reasoning</i>	_____ MA 16100 or 16500
<i>Science Selective</i>	_____ PHYS 17200		

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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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## Chemical Engineering

[https://engineering.purdue.edu/ChE/Academics/Undergrad/degree\\_requirements](https://engineering.purdue.edu/ChE/Academics/Undergrad/degree_requirements)

### Suggested Arrangement of Courses: Accelerated 3 Year Program (May Graduation)

Fall 1st Year	
4	CHM 11500
4	ENGL 10600
2	ENGR 13100
4	MA 16500
3	General Education Elective
<b>17</b>	<b>Total Credits</b>

Spring 1st Year	
4	CHM 11600
3	COM 11400
2	ENGR 13200
4	MA 16600
4	PHYS 17200
<b>17</b>	<b>Total Credits</b>

Summer 1st Year	
4	CHE 20500
4	MA 26100
3	PHYS 24100
3	General Education Elective
<b>14</b>	<b>Total Credits</b>

Fall 2nd Year	
0	<i>CHE 20000</i>
4	CHE 21100
3	<i>CHM 26100</i>
1	<i>CHM 26300</i>
3	General Education Elective
3 or 4	Math Selective I
3	Biology Selective
<b>17 or 18</b>	<b>Total Credits</b>

Spring 2nd Year	
0	<i>CHE 30000</i>
3	<i>CHE 32000</i>
3 or 4	Math Selective II
4	CHE 37700
4	CHE 34800
3	General Education Elective
<b>18 or 17</b>	<b>Total Credits</b>

Summer 2nd Year	
3	CHM 26200
1	CHM 26400
3	Technical Selective
3	Engineering Selective
3	General Education Elective
<b>13</b>	<b>Total Credits</b>

Fall 3rd Year	
3	<i>CHE 30600</i>
1	<i>CHE 40000</i>
3	<i>CHE 45600</i>
3	<i>CHE 42000</i>
4	CHE 37800
3	General Education Elective
<b>17</b>	<b>Total Credits</b>

Spring 3rd Year	
4	<i>CHE 45000</i>
4	CHE 43500
3	CHE Selective
3	CHM 37000
3	Engineering Selective
<b>17</b>	<b>Total Credits</b>

Concurrent prerequisites are listed in *italics*.

**Students must earn a "C" or better in CHE 20500 to enroll in any other CHE course.**

**Students must earn a "C-" or better in CHE 21100, 30600, 32000, 34800, 37700, 37800 to enroll in upper level CHE courses.**

**130 semester credits required for Bachelor of Science degree in Chemical Engineering.**

**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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