

**First Year Engineering Courses (31 credits)**

<https://engineering.purdue.edu/ENE/InfoFor/CurrentStudents/FYEPlan>

- \_\_\_\_\_ (4) CHM 11500 General Chemistry I
- \_\_\_\_\_ (4) CHM 11600 General Chemistry II (*satisfies FYE Science Selective requirement*)
- \_\_\_\_\_ (3) COM 11400 Fundamentals of Speech (*satisfies FYE General Education Elective*)
- \_\_\_\_\_ (4/3) ENGL 10600 English Composition or ENGL 10800 Accelerated English Composition
- \_\_\_\_\_ (2/3.5) ENGR 13100 Transforming Ideas to Innovation I or ENGR 14100 Honors Innovation & Creativity in Engineering Design I
- \_\_\_\_\_ (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
- \_\_\_\_\_ (4/5) MA 16600/16200 Calculus II
- \_\_\_\_\_ (4) PHYS 17200 Mechanics

**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>

- \_\_\_\_\_ (3) \_\_\_\_\_ General Education Elective
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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: 5 Term Co-Op (Fall Start)

Fall 1st Year		Spring 1st Year		Summer 1st Year	
4	CHM 11500	4	CHM 11600	0	CHE 20100
4	ENGL 10600	3	COM 11400	4	MA 26100
2	ENGR 13100	2	ENGR 13200	3	General Education Elective
4	MA 16500	4	MA 16600	3	General Education Elective
<b>14</b>	<b>Total Credits</b>	<b>17</b>	<b>Total Credits</b>	<b>10</b>	<b>Total Credits</b>
Fall 2nd Year		Spring 2nd Year		Summer 2nd Year	
0	CHE 29199: Work Session 1	0	CHE 20100	0	CHE 29299: Work Session 2
		4	CHE 20500		
		3 or 4	Math Selective I		
		3	PHYS 241		
		3	General Education Elective		
		3	General Education Elective		
<b>0</b>	<b>Total Credits</b>	<b>16 or 17</b>	<b>Total Credits</b>	<b>0</b>	<b>Total Credits</b>
Fall 3rd Year		Spring 3rd Year		Summer 3rd Year	
0	<b><i>CHE 20000</i></b>	0	CHE 39399: Work Session 3	0	CHE 30100
4	CHE 21100			3	CHM 26200
0	CHE 30100			1	CHM 26400
4	*CHE 37700			3 or 4	Math Selective II
3	<b><i>CHM 26100</i></b>				
1	<b><i>CHM 26300</i></b>				
3	Biology Selective				
3	General Education Elective				
<b>18</b>	<b>Total Credits</b>	<b>0</b>	<b>Total Credits</b>	<b>7 or 8</b>	<b>Total Credits</b>
Fall 4th Year		Spring 4th Year		Summer 4th Year	
0	CHE 39499: Work Session 4	0	<b><i>CHE 30000</i></b>	0	CHE 39599: Work Session 5
		0	CHE 30100		
		3	<b><i>CHE 32000</i></b>		
		4	CHE 34800		
		4	CHE 37800		
		3	CHM 37000		
		3	General Education Elective		
<b>0</b>	<b>Total Credits</b>	<b>17</b>	<b>Total Credits</b>	<b>0</b>	<b>Total Credits</b>
Fall 5th Year		Spring 5th Year			
3	<b><i>CHE 30600</i></b>	4	CHE 43500		
1	<b><i>CHE 40000</i></b>	4	<b><i>CHE 45000</i></b>		
3	<b><i>CHE 40100</i></b>	3	CHE Selective		
3	<b><i>CHE 42000</i></b>	3	Technical Selective		
3	<b><i>CHE 45600</i></b>				
3	Engineering Selective				
<b>16</b>	<b>Total Credits</b>	<b>14</b>	<b>Total Credits</b>		

Courses offered during a fall or spring only term are listed in ***bold italics***.

\*Co-Op Students will need to see their advisor to concurrently enroll in CHE 21100 and 37700.

Students must earn a "C" or better in CHE 20500.  
 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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