

**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) \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_
- \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_ (3) \_\_\_\_\_

**University Core Requirements**

Human Cultures Humanities	_____	Science, Technology & Society Selective	_____
Human Cultures Behavioral/Social Science	_____	Written Communication	_____
Information Literacy	_____	Oral Communication	_____
Science Selective	_____	Quantitative Reasoning	_____
Science Selective	_____		

\*\*\*\*\*

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

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

\*\*\*\*\*

## Chemical Engineering

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

### Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite
4 or 5	MA 16500/16100	ALEKS score of 75
4	CHM 11500	
4	ENGL 10600	
2	ENGR 13100	
<b>14/15 Total Credits</b>		

Credits	Spring 1st Year	Prerequisite
4	MA 16600/16200	MA 16500/16100
4	CHM 11600	CHM 11500
4	PHYS 17200	MA 16100/16500
3	COM 11400	
2	ENGR 13200	ENGR 13100
<b>17 Total Credits</b>		

Credits	Fall 2nd Year	Prerequisite
0	CHE 20000      Fall Only	
4	CHE 20500	ENGR 13100, PHYS 17200, MA 16100/16500, <i>CHM 11600</i>
3	CHM 26100      Fall Only	CHM 11600
1	CHM 26300      Fall Only	<i>CHM 26100</i>
4	MA 26100	MA 16600/16200
3	PHYS 241	PHYS 17200, <i>MA 16600/16200</i>
3	General Education Elective	
<b>18 Total Credits</b>		

Credits	Spring 2nd Year	Prerequisite
4	CHE 21100	CHE 20500, MA 26100
3	CHE 32000      Spring Only	CHE 20500, <i>Math Selective I</i>
3	CHM 26200      Spring Only	CHM 26100
1	CHM 26400      Spring Only	CHM 26300, <i>CHM 26200</i>
3 or 4	Math Selective I	MA 26100
3	General Education Elective	
<b>17/18 Total Credits</b>		

Credits	Fall 3rd Year	Prerequisite
3	CHE 30600      Fall Only	CHE 21100
4	CHE 37700	CHE 21100, <i>Math Selective II</i>
3	CHM 37000	CHE 21100, CHM 11600, MA 26100, PHYS 24100
3 or 4	Math Selective II	Math Selective I
3	Biology Selective	
<b>16/17 Total Credits</b>		

Credits	Spring 3rd Year	Prerequisite
0	CHE 30000      Spring Only	
4	CHE 37800	CHE 21100, CHE 37700
4	CHE 34800	Math Selective I, CHE 21100, <i>CHM 26100</i>
3	Technical Elective	
3	Engineering Elective	
3	General Education Elective	
<b>17 Total Credits</b>		

Credits	Fall 4th Year	Prerequisite
1	CHE 40000      Fall Only	<i>CHE 45600</i>
3	CHE 45600      Fall Only	CHE 37700, 34800, 37800
4	CHE 43500	CHE 30600, 32000, 34800, 37800
3	CHE 42000      Fall Only	<i>CHE 34800, 37800</i>
3	General Education Elective	
<b>14 Total Credits</b>		

Credits	Spring 4th Year	Prerequisite
4	CHE 45000      Spring Only	CHE 30600, 37800, <i>CHE 43500</i>
3	CHE Elective	
3	ENGR Elective	
3	General Education Elective	
3	General Education Elective	
<b>16 Total Credits</b>		

Concurrent prerequisites are listed in *italics*.

**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.**

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

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

\*\*\*\*\*