

**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: 3 Term Co-Op (Fall Start)**

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