PURDUE UNIVERSITY

Chemical Engineering

College of Engineering

BSChE
CHE-BSE
130 Credits for Graduation
Students must have a graduation index of a 2.0
Students must earn a "C" or better in CHE 20500

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

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

_____ (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

Suggested Arrangement of Courses: 5 Term Co-Op (Summer Start)

Fall 1st Year	
4	CHM 11500
4	ENGL 10600
2	ENGR 13100
4	MA 16500
14	**Total Credits**

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

Summer 1st Year	
0	CHE 29199: Work Session I
0	**Total Credits**

Fall 2nd Year	
0	***CHE 20000***
0	CHE 20100
4	CHE 20500
3	***CHM 26100***
1	***CHM 26300***
3	General Education Elective
4	MA 26100
3	PHYS 24100
18	**Total Credits**

Spring 2nd Year	
0	CHE 29299: Work Session 2
0	**Total Credits**

Summer 2nd Year	
0	CHE 20100
3	CHM 26200
1	CHM 26400
3 or 4	Math Selective I
7 or 8	**Total Credits**

Fall 3rd Year	
0	CHE 39399: Work Session 3
0	**Total Credits**

Spring 3rd Year	
4	CHE 21100
0	CHE 30100
0	***CHE 30000***
3	***CHE 32000***
4	*CHE 37700
3	General Education Elective
3 or 4	Math Selective II
17/18	**Total Credits**

Summer 3rd Year	
0	CHE 39499: Work Session 4
0	**Total Credits**

Fall 4th Year	
3	Biology Selective
0	CHE 30100
4	CHE 34800
4	CHE 37800
3	CHM 37000
3	General Education Elective
17	**Total Credits**

Spring 4th Year	
0	CHE 39599: Work Session 5
0	**Total Credits**

Summer 4th Year	
0	CHE 30100
3	General Education Elective
3	General Education Elective
3	General Education Elective
9	**Total Credits**

Fall 5th Year	
3	***CHE 30600***
1	***CHE 40000***
3	***CHE 40100***
3	***CHE 42000***
3	***CHE 45600***
3	Engineering Selective
16	**Total Credits**

Spring 5th Year	
4	CHE 43500
4	***CHE 45000***
3	CHE Selective
3	Technical Selective
14	**Total Credits**

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.

****

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

Degree Works is knowledge source for specific requirements and completion

****