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
Students must earn a "C-" or better in CHE 21100, 30600, 32000, 34800, 37700, 37800

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

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)	*Human Cultures Humanities*	_____	(3)	_____
_____	(3)	*Human Cultures Behavioral/Social Science*	_____	(3)	_____
_____	(3)	_____	_____	(3)	_____

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

Human Cultures Humanities		*Science, Technology & Society Selective*	Technical Selective or Gen Ed
Human Cultures Behavioral/Social Science		*Written Communication*	ENGL 10600 or ENGL 10800
Information Literacy	ENGR 13100 or ENGR 14100	*Oral Communication*	COM 11400
Science Selective	CHM 11500	*Quantitative Reasoning*	MA 16100 or 16500
Science Selective	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

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite
4 or 5	MA 16500/16100	ALEKS score of 85
4	CHM 11500	
4	ENGL 10600	
2	ENGR 13100	
14/15	**Total Credits**	

Credits	Spring 1st Year	Prerequisite
4 or 5	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
17/18	**Total Credits**	

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

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

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

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, *CHM 26100*
3	Technical Elective		
3	Engineering Elective		
3	General Education Elective		
17	**Total Credits**		

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

Credits	Spring 4th Year		Prerequisite
4	CHE 45000	Spring Only	CHE 30600, 37800, *CHE 43500*
3	CHE Elective		
3	ENGR Elective		
3	General Education Elective		
3	General Education Elective		
16	**Total Credits**		

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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