

Chemical Engineering College of Engineering

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

BSChE

First Year Engineering Courses (31 credits)

| ineering Courses (31 credits) ering.purdue.edu/ENE/InfoFor/CurrentStudents/FYEPlan |
|--|
| CHM 11500 General Chemistry I |
| CHM 11600 General Chemistry II (satisfies FYE Science Selective requirement) |
| COM 11400 Fundamentals of Speech (satisfies FYE General Education Elective) |
| ENGL 10600 English Composition or ENGL 10800 Accelerated English Composition |
| ENGR 13100 Transforming Ideas to Innovation I or ENGR 14100 Honors Innovation & Creativity in Engineering Design I |
| ENGR 13200 Transforming Ideas to Innovation II or ENGR 14200 Honors Innovation & Creativity in Engineering Design II |
| MA 16500/16100 Calculus I |
| MA 16600/16200 Calculus II |
| PHYS 17200 Mechanics |
| FITS 17200 Mechanics |
| ineering Major Courses (81 credits) |
| ering.purdue.edu/ChE/Academics/Undergrad/degree_requirements Core Courses (41 credits) |
| HE 20000 ChE Sophomore Seminar |
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| HE 21100 Intro ChE. Thermodynamics |
| HE 30000 ChE Junior Seminar |
| HE 30600 Design of Staged Separation Processes |
| HE 32000 Statistical Modeling & Quality Enhancement |
| HE 34800 Chemical Reaction Engineering |
| 1E 37700 Memoritum Transfer |
| JE 27900 Hoot & Mace Transfor |
| 1E 37000 Field & Mass Hallstell |
| HE 20500 ChE Calculations HE 21100 Intro ChE Thermodynamics HE 30000 ChE Junior Seminar HE 30600 Design of Staged Separation Processes HE 32000 Statistical Modeling & Quality Enhancement HE 34800 Chemical Reaction Engineering HE 37700 Momentum Transfer HE 37800 Heat & Mass Transfer HE 40000 ChE Senior Seminar HE 42000 Process Safety Management HE 43500 ChE Laboratory HE 45000 Design & Analysis of Processing Systems |
| 1E 42000 Process Salety Management |
| 1E 45000 Che Laboratory |
| |
| HE 45600 Process Dynamics & Control |
| Science Core (18 credits) |
| CHM 26100 Organic Chemistry I |
| CHM 26300 Organic Chemistry Laboratory I |
| CHM 26200 Organic Chemistry II |
| CHM 26400 Organic Chemistry Laboratory II |
| CHM 37000 Physical Chemistry |
| MA 26100 Multivariate Calculus |
| PHYS 24100 Electricity & Optics |
| Selectives - Select course for each requirement. (22 credits) s://engineering.purdue.edu/ChE/Academics/Undergrad/degree_requirements |
| Biology Selective |
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| One-medial Engineering Selective |
| Engineering Selective |
| Math Selective I |
| Math Selective I |
| Technical Selective |
| |
| ication Electives (18 credits) https://engineering.purdue.edu/ENE/InfoFor/CurrentStudents/genedcourses |
| General Education Elective |
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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 75 |
| 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, <i>CHM 11600</i> |
| 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 | Spring Only | 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 | Fall Only | 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.

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