



# CHEMICAL ENGINEERING

## International Program (Bachelor of Engineering)



### General Description

The 4-year Bachelor of Engineering course provides the fundamental of chemical engineering. Chemical Engineering, Naresuan University aims to provide knowledge to study whose expected to have ability and skill, working as control engineer, process engineer, production engineer and design engineer for industries such as chemical, bio-chemical and biorefinery.

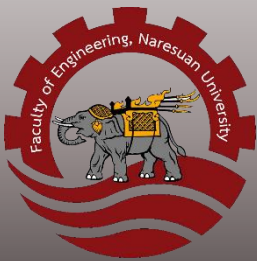
The keys objectives of our program in Chemical Engineering are to prepare students to have the following attributes:

- ❑ The abilities to solve problem in chemical processes.
- ❑ The abilities to analyze and apply knowledge of chemical engineering to design chemical, bio-chemical and biorefinery processes.
- ❑ The morality, ethic, soft skills such as human relation and communication.
- ❑ The skills for economic management, human resource management and technopreneurship.

### Career Opportunities

After successfully completing your studies, you will be able to work as a control engineer, process engineer, production engineer and design engineer for industries such as chemical, bio-chemical and biorefinery or something else entirely. Chemical Engineering graduates are highly sought after by employers, and all of our graduates either find employment in industry or go on to higher level study at the end of their degree. Careers include research and development, management positions, and technical roles within both large multinationals and smaller businesses.





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### Curriculum Structure

Requirements	Credits
<b>1. General Education Courses</b>	30
<b>2. Specialized Courses:</b>	114
<b>2.1 Core Courses</b>	102
<b>2.2 Major Elective Courses</b>	9
<b>2.3 Undergraduate Thesis</b>	3
<b>2.4 Non-Credit Courses</b>	7
<b>3. Free Elective Courses</b>	6
<b>Total</b>	150

### General Education Courses

Students has to take General Education Courses of 30 credits.

### Core Courses

: choose 102 credits from the following courses

Basic Chemistry for Chemical Engineering , Chemical Engineering Principles and Calculations, Chemical Engineering Thermodynamics, Chemical Engineering Kinetics and Reactor Design, Transport Phenomena, Chemical Engineering Plant Design, etc.

### Major elective courses

: choose 6 credits from the following courses

Introduction to Polymer Technology, Polymer Blends and Composites Technology, Introduction to Catalytic Reaction Engineering, Introduction to Catalyst Characterization, Chemical Process Instrumentation, Separation Technology, Petroleum and Natural Gas Technology, Petrochemical Technology, Renewable Energy, etc.

### Non-Credit Courses

Students have to take 6 credits or not less than 270 hours from Training in Chemical Engineering.

### Free Elective Courses

Students can take Electives of 6 credits from any faculty in Naresuan University.

### Degree Information

- Duration: 4 Years (8 Semesters)
- Tuition Fee: 16,000 Bath/Semester