What Can I Do With This Ohio State Major?

Bachelor of Science

Chemical Engineering

College of Engineering

The chemical engineering program in the Department of Chemical and Biomolecular Engineering educates engineers to design, develop, and operate chemical processes by which chemicals, petroleum products, food, pharmaceuticals, and consumer goods can be produced economically and safely. Chemical engineering students study changes in the composition, energy content, or state of aggregation of materials taking into consideration the fundamentals of the nature of matter and its properties (chemistry); the forces that act on matter (physics); and the relationships between them (mathematics). Chemical engineering differs from chemistry in its emphasis on commercial applications of chemical reactions and separations and techniques for designing, operating, and controlling processes.

Career Areas/Job Titles:

Management and Industry

Operations Manager

Sales Specialist

Consultant

Communication and Media

Technical Documentation Expert

Health Professions

Pharmaceuticals Consultant

Science and Technology

Research and Development

Design Engineer

Pharmaceuticals Engineer

Consumer Products Engineer

Chemical Design Engineer Environmental Engineer

Education

Professor

Government/Politics

Lobbyist

FDA Employee

Lawyer

Transferable Skills:

Chemistry
Engineering Fundamentals

Mathematics

Physics

Provide/Respond to Feedback
Use Technology Effectively

Written Communication

Teamwork Conceptualizing

Gathering Information

Identifying Problems

Research Skills Setting Goals

Adaptability/Flexibility
Attention to Detail

Judgment & Decision Making Implementing Decisions

Organization Skills

Planning

Prioritizing Tasks

Strategic Planning/Visioning Creating Innovative Solutions

Quantitative Reasoning Analytical/Critical Thinking

Problem Solving

*This is not an extensive list of transferable skills. See larger list of skills you might develop here: http://ccss.osu.edu

Professional Links:

American Institute of Chemical Engineers: http://www.aiche.org/

American Chemical Society: http://portal.acs.org/portal/acs/corg/content

Chemical and Biomolecular Engineering Department: www.cbe.osu.edu

Electrochemical Society: http://www.electrochem.org/

^{*}Some careers may require licensure, certification, or further education. Talk to an advisor about specific requirements.