

CHEMICAL ENGINEERING MAJOR (B.S.)

Purpose

The Bachelor of Science in Chemical Engineering major provides instruction in chemical engineering along with theoretical knowledge and practical experience from a Christian worldview perspective. The program prepares graduates for the thoughtful integration of work and life and to view the chemical engineering profession as a lifelong commitment to serving others.

Program Learning Outcomes

The student will be able to:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Program of Study

Delivery Format: Residential Only

- Chemical Engineering (B.S.) - Resident

Career Opportunities

- Chemical Engineer
- Materials/Manufacturing Engineer
- Project/Process/Product Engineer