

## CHEMICAL ENGINEERING

### MISSION

*The mission of the Chemical Engineering Department is to:*

- Provide a high-quality education experience that will prepare graduates to assume leadership positions within chemical and other associated industries
- Advance standards of engineering professionalism, ethics and leadership
- Provide development, security and safety of chemical engineers
- Provide an opportunity for lifelong learning and a career.
- Encourage students the pursuit of new knowledge and innovative scholarship in chemical sciences and engineering.

## CHEMICAL ENGINEERING

### PROGRAM EDUCATIONAL OBJECTIVES

*The program educational objectives of the BME program at Sagesse*

*University:*

1. Provide Students with the education and training in the field of chemical engineering through the study of chemical manufacturing or industrial processes by transforming raw materials into consuming products through the design, construction and management of factories
2. Supply the student with basic Chemical Engineering knowledge necessary for industrial practices.
3. Meet the growing needs to face future difficulties in the Lebanese and Middle Eastern Chemical industries.

## CHEMICAL ENGINEERING

### PROGRAM OUTCOMES

*Upon completion of the program, graduates shall be able to:*

- Apply knowledge of mathematics, science and engineering.
- Build an experimental setup, conduct experiments, analyze and interpret data and take appropriate action as needed.
- Identify, formulate, and solve chemical engineering problems using real world engineering tools.
- Apply the techniques, skills, and modern engineering tools necessary for engineering practice. Exhibit higher-order thinking and sound reasoning in dealing with complex engineering problems.
- Demonstrate knowledge of the entrepreneurial process and related tools.
- Recognize the need for, and an ability to engage in life-long learning.
- Use information and communication technologies to effectively communicate ideas and present technical information to constituents in oral and written forms.
- Establish commitment to upholding established professional and ethical norms.
- Design a system, component, or process to meet desired needs and satisfy realistic constraints.
- Recognize the global, economic, environmental, and social context and distinguish the associated implications of engineering solutions.