

Modified Educational Objectives for Chemical Engineering Approved August 2007

Chemical Engineering is a world where a diverse group of individuals contributes to an incredible range of processes and products including pharmaceuticals, semiconductors, artificial kidneys, oil refineries, solar panels, clean water, and biocompatible polymers. Chemical Engineering is a branch of engineering that deals with the chemical and physical processes used to develop and make these and many other products. Without question, chemical engineers are making major contributions to the technological infrastructure of modern society.

Mission

The mission of the Swalm School of Chemical Engineering is to produce graduates who have the ability to apply the principles of the physical sciences, together with the principles of economics and human relations, to fields that pertain directly to processes and process equipment that treat material to effect a change in state, energy content, or composition.

Graduates will receive a broad education that will enable them to become leaders in industry, the profession, and the community. Those graduates that excel academically will be prepared for entry to graduate studies.

To achieve our mission, Program Educational Objectives have been established to help us assess the degree to which we have achieved these objectives.

Swalm School of Chemical Engineering Program Educational Objectives

Mississippi State University Chemical Engineering graduates will...

- 1) ...successfully enter the chemical engineering profession as design, process and research engineers (and related designations) with prominent companies in the chemical process industries, petroleum and petrochemical, environmental, government agencies, consulting or other related industries.
- 2) ... demonstrate an ability to address unstructured problems specific to chemical engineering technical specialties by identifying and implementing solutions using the proper tools, practical approaches and flexible thinking.
- 3) ... pursue and earn post-baccalaureate degrees in chemical engineering and related fields, business and professional programs including medicine and law.
- 4) ... demonstrate proficiency in chemical engineering practice and leadership development by advancing in their chosen fields to technical leadership, supervisory and management positions.

The Bachelor of Science program in chemical engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.