B.S.Ch.E. in Chemical Engineering

Overview

Degree Requirements

Description
The B.S. in chemical engineering provides the student with a fundamental knowledge of chemical engineering science and prepares graduates for a variety of careers in industry and government, or for advanced study in engineering, business, or professional school.

Minimum Total Credit Hours: 128

Goals/Mission Statement

Program Educational Objectives

Graduates from the Department of Chemical Engineering of the University of Mississippi will be:
1. Globally competitive in the professional world;
2. Prepared for leadership and success in their chosen career or in continued education;
3. Equipped with flexible problem-solving skills to address complex professional and societal issues.

Student Outcomes

In accordance with ABET accreditation requirements, BSChE students at the University of Mississippi should demonstrate the attainment of the following student outcomes:
(a) an ability to apply knowledge of mathematics, science, and engineering
(b) an ability to design and conduct experiments, as well as to analyze and interpret data
(c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
(d) an ability to function on multidisciplinary teams
(e) an ability to identify, formulate, and solve engineering problems
(f) an understanding of professional and ethical responsibility
(g) an ability to communicate effectively
(h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
(i) a recognition of the need for, and an ability to engage in lifelong learning
(j) a knowledge of contemporary issues
(k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Course Requirements

Specific requirements for the standard option in chemical engineering are as follows:
- Writ 101 and 102;
- Math 261, 262, 263, 264, and 353;
- Chem 105, 106, 115, 116, 221, and 225;
- Phys 211, 212, 221, 222;
- an advanced science (defined below);
- Engr 310, 313, 321, and 322;
- an engineering elective (defined below);
- 12 hours of technical electives of 300 or higher course number from engineering, science, or mathematics;
- 3 hours of fine arts
- 6 hours of humanities from the same department
- 6 hours of social science from the same department
- 3 additional hours of humanities, social science, or a general education course as defined by the School of Engineering with the exception that speech and math content courses may not be used to satisfy any of these required 18 credits.

Any of the following will satisfy the advanced science requirement:
- Engr 340
- Engr 540
- Ch E 543
- Ch E 545
- Ch E 547
- Geol 314
- Geol 415
- Geol 450
- G E 503
- Chem 314
- Chem 331

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master’s, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

http://catalog.olemiss.edu/2020/fall/undergraduate/engineering/chemical-engineering/bs-chem-eng
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