Emphasis - Materials

B.S.Ch.E. in Chemical Engineering

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:
1. Meet or exceed the expectations of employers of chemical engineers;
2. Continue their professional development by pursuing advanced study if they so desire; and
3. Pursue leadership positions in their profession and/or communities.

Student Outcomes
In accordance with ABET accreditation requirements, BSChE students at the University of Mississippi should demonstrate the attainment of the following student outcomes:
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. 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
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. 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
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Other Academic Requirements
Students in the Department of Chemical Engineering are encouraged to take the Fundamentals of Engineering examination prior to awarding of the baccalaureate degree.

Emphasis - Materials

Course Requirements
Students in Materials Option must choose ENGR 309 when given the choice in the Foundation/Engineering Science Topic

Materials

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch E 543, 545, or 547</td>
<td>3 Credit Hours</td>
</tr>
<tr>
<td>Materials elective*</td>
<td>9 Credit Hours</td>
</tr>
<tr>
<td>Engineering elective</td>
<td>3 Credit Hours</td>
</tr>
<tr>
<td>Technical elective</td>
<td>3 credit Hours</td>
</tr>
<tr>
<td>Add'l hum/soc sci/gen ed</td>
<td>3 Credit Hours</td>
</tr>
</tbody>
</table>

*Materials elective courses: Ch E 540, 543, 545, 547, 550, Engr 309, 312, 340, or M E 534

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.

https://catalog.olemiss.edu/2022/spring/undergraduate/engineering/chemical-engineering/bs-chem-eng/bsce-mater