Emphasis - Secondary Chemistry Education

B.E. in Engineering

Description
The B.E. program is more broadly focused than the B.S. in engineering science programs. The B.E. is designed to provide students the opportunity to gain an understanding of engineering, scientific, and technical knowledge, which will enhance their career objectives in such areas as engineering science, medicine, law, professional education, public policy, military, management, and sales.

Minimum Total Credit Hours: 127

Course Requirements
Candidates for the B.E. degree must complete the following courses: Math 261-264, Math 353, Writ 100, Writ 101, Writ 102, or Liba 102; Chem 105, 106, 115, 116, and Phys 211, 212, 221, 222; Csci 251; Engr 100, 309, 310, 313, 321, 330, 360, 361, 400; 9 hours of technical engineering electives; 3 additional hours of humanities/social science/fine arts beyond the 18 hours School of Engineering core/general education requirement; 33 hours of an approved emphasis area.

The qualifications for the 9 hours of technical electives: any combination of courses offered by the School of Engineering with a minimum of two courses at the 200 level or higher, and at least one of the two courses needs to be at the 300 level or higher, for a combined total of 9 credit hours.

Emphasis - Secondary Chemistry Education

Description
Students seeking an emphasis in secondary chemistry education will be assigned an adviser in both the School of Education and School of Engineering.

Course Requirements
Candidates for the B.E. degree with an emphasis in secondary chemistry education must complete the following courses: Csci 251, Engr 207, Engr 309, 310, 313, 321, 330, 362, 363, 400; 9 hours of technical engineering electives; 6 additional hours of humanities/social science/fine arts beyond the 18 hours School of Engineering core/general education requirement; and 33 hours in the secondary chemistry education emphasis area including the following courses: Chem 221 (3), Chem 225 (1), Chem 222 (3), Chem 226 (1), Chem 314 (4), Chem 331 (3), Chem 334 (3), Chem 381 (4), Chem 382 (4), Edsp 308 (3), Edci 352 (3), Edci 353 (3). Please see an adviser within the B.E. degree program for further details of these required courses.

Degree Requirements
The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

B.E. in Engineering

General Education

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>HOURS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 105</td>
<td>3</td>
<td>Complete Chem 105 with a passing grade.</td>
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<tr>
<td>Chem 106</td>
<td>3</td>
<td>Complete Chem 106 with a passing grade.</td>
</tr>
<tr>
<td>Chem 115</td>
<td>1</td>
<td>Complete Chem 115 with a passing grade.</td>
</tr>
<tr>
<td>Chem 116</td>
<td>1</td>
<td>Complete Chem 116 with a passing grade.</td>
</tr>
<tr>
<td>First Year Writing</td>
<td>6</td>
<td>Complete Engl 101, Hon 101, Writ 100, or Writ 101, and Complete one of the following courses: Engl 102, Liba 102, Writ 102 or Hon 102.</td>
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<tr>
<td>Math 261</td>
<td>3</td>
<td>Complete Math 261 with a passing grade.</td>
</tr>
<tr>
<td>Math 262</td>
<td>3</td>
<td>Complete Math 262 with a passing grade.</td>
</tr>
<tr>
<td>Math 263</td>
<td>3</td>
<td>Complete Math 263 with a passing grade.</td>
</tr>
<tr>
<td>Math 264</td>
<td>3</td>
<td>Complete Math 264 with a passing grade.</td>
</tr>
<tr>
<td>Math 353</td>
<td>3</td>
<td>Complete Math 353 with a passing grade.</td>
</tr>
<tr>
<td>Phys 211</td>
<td>3</td>
<td>Complete Phys 211 with a passing grade.</td>
</tr>
<tr>
<td>Phys 212</td>
<td>3</td>
<td>Complete Phys 212 with a passing grade.</td>
</tr>
<tr>
<td>Phys 221</td>
<td>1</td>
<td>Complete Phys 221 with a passing grade.</td>
</tr>
<tr>
<td>Phys 222</td>
<td>1</td>
<td>Complete Phys 222 with a passing grade.</td>
</tr>
<tr>
<td>3 hrs fine arts</td>
<td>3</td>
<td>Student must successfully complete 3 hours in the fine arts. The course may be chosen from art history, art appreciation, and criticism of art, dance, music, and theatre arts. Courses emphasizing the enhancement of skills and performance are not acceptable.</td>
</tr>
</tbody>
</table>
### REQUIREMENT | HOURS | DESCRIPTION
--- | --- | ---
3 hrs humanities | 3 | Complete 3 hrs of humanities choosing from course work in classics, literature, history, modern language, philosophy, religion, Southern studies, African American Studies, and Gender Studies.
3 hrs fine arts/humanities | 3 | Complete 3 additional hours in any of the humanities or fine arts categories defined by the School of Engineering general education requirements.
6 hrs social sciences | 6 | Complete 6 hours of social sciences choosing from the following: economics, anthropology, political science, psychology, and sociology.
3 hrs gen ed or SS/H/FA | 3 | Complete 3 hrs General Education work chosen from the following: additional fine art, additional social science, additional humanities, As 301, As 302, Bus 250, Bus 271, Edld 110, Edld 111, Edld 120, Edld 220, Mgmt 371, Mel 102, Nac 211, or Spch 105.
3 hrs fine arts/humanities/soc sci | 3 | Complete 6 additional hours in any of the humanities, fine arts, or social science categories defined by the School of Engineering general education requirements.

### Major Requirements

| REQUIREMENT | HOURS | DESCRIPTION |
--- | --- | ---|
Csci 251 | 3 | Complete Csci 251 with a passing grade. |
Engr 100 | 3 | Complete Engr 100 with a passing grade. |
Engr 309 | 3 | Complete Engr 309 with a passing grade. |
Engr 310 | 3 | Complete Engr 310 with a passing grade. |
Engr 313 | 3 | Complete Engr 313 with a passing grade. |
Engr 321 | 3 | Complete Engr 321 with a passing grade. |
Engr 360 or Engr 362 | 3 | Complete either Engr 360 or Engr 362 with a passing grade. |
Engr 361 or Engr 363 | 1 | Complete either Engr 361 or Engr 363 with a passing grade. |
Engr 400 | 1 | Complete Engr 400 with a passing grade. |
Engr 330 | 3 | Complete Engr 330 with a passing grade. |
6 hrs add'l SOE technical elective | 6 | Complete at least 6 hours of additional coursework offered by the School of Engineering at the 200-level or above. |
Technical elective at 300+ level | 3 | Of the 9 hours of engineering electives, at least 3 hours must be completed at the 300-level or above. |
Enroll in a BE emphasis | 0 | Enroll in an emphasis within the B. Engineering program. |
School of Engineering GPA | 0 | Must be at least a 2.0 |

### Emphasis - Secondary Chemistry Education

| REQUIREMENT | HOURS | DESCRIPTION |
--- | --- | ---|
Chem 221 | 3 | Complete Chem 221 with a passing grade. |
Chem 225 | 1 | Complete Chem 225 with a passing grade. |
Chem 222 | 3 | Complete Chem 222 with a passing grade. |
Chem 226 | 1 | Complete Chem 226 with a passing grade. |
Chem 314 | 4 | Complete Chem 314 with a passing grade. |
Chem 331 | 3 | Complete Chem 331 with a passing grade. |
Chem 334 | 3 | Complete Chem 334 with a passing grade. |
Chem 381 | 4 | Complete Chem 381 with a passing grade. |
Chem 382 | 4 | Complete Chem 382 with a passing grade. |
Edsp 308 | 3 | Complete Edsp 308 with a passing grade. |
Edci 352 | 3 | Complete Edci 352 with a passing grade. |
Edci 353 | 3 | Complete Edci 353 with a passing grade. |

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/2018/spring/undergraduate/engineering/be-engr/boe-sec-chem