Emphasis - Pre-Med Studies

- B.E. in Engineering
- Emphasis - Pre-Med Studies
- Degree Requirements

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

General Education Requirements
Students must complete at least 21 semester hours of general education requirements: 3 hours in humanities, 3 hours in fine arts, 3 hours in humanities/fine arts, 6 hours in social science, and the remaining 6 hours can be in any of the humanities/fine arts, social science, or general education courses as specified by the School of Engineering.

Course Requirements
Candidates for the B.E. degree must complete the following courses: Writ 100, Writ 101, or Hon 101; Writ 102, Liba 102, or Hon 102; Math 261-264, Math 353; 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 one course at the 200 level or higher and at least two courses at the 300 level or higher, for a combined total of 9 credit hours.

Other Academic Requirements
Students must maintain at least a 2.0 GPA in the emphasis classes for graduation.

Emphasis - Pre-Med Studies

Description
An emphasis in pre-med studies is intended to prepare students for further study in medical school.

Course Requirements
Candidates for the B.E. degree with an emphasis in pre-med studies 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 pre-med studies emphasis area from the following courses: Bisc 160 (3), Bisc 161 (1), Bisc 162 (3), Bisc 163 (1), Chem 221 (3), Chem 225 (1), Chem 222 (3), Chem 226 (1), 6 hours of 200+ level Chem, Bisc, or Psy, 12 hours of 300+ level Chem, Bisc, or Psy. 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>
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<tbody>
<tr>
<td>Chem 105</td>
<td>3</td>
<td>Complete <em>Chem 105</em> with a passing grade.</td>
</tr>
<tr>
<td>Chem 106</td>
<td>3</td>
<td>Complete <em>Chem 106</em> with a passing grade.</td>
</tr>
<tr>
<td>Chem 115</td>
<td>1</td>
<td>Complete <em>Chem 115</em> with a passing grade.</td>
</tr>
<tr>
<td>Chem 116</td>
<td>1</td>
<td>Complete <em>Chem 116</em> with a passing grade.</td>
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<tr>
<td>First Year Writing</td>
<td>6</td>
<td>Complete <em>Engl 101, Hon 101, Writ 100, or Writ 101</em>, and Complete one of the following courses: <em>Engl 102, Liba 102, Writ 102 or Hon 102</em>.</td>
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<tr>
<td>Math 261</td>
<td>3</td>
<td>Complete <em>Math 261</em> with a passing grade.</td>
</tr>
<tr>
<td>Math 262</td>
<td>3</td>
<td>Complete <em>Math 262</em> with a passing grade.</td>
</tr>
<tr>
<td>Math 263</td>
<td>3</td>
<td>Complete <em>Math 263</em> with a passing grade.</td>
</tr>
<tr>
<td>Math 264</td>
<td>3</td>
<td>Complete <em>Math 264</em> with a passing grade.</td>
</tr>
<tr>
<td>Math 353</td>
<td>3</td>
<td>Complete <em>Math 353</em> with a passing grade.</td>
</tr>
<tr>
<td>Phys 211</td>
<td>3</td>
<td>Complete <em>Phys 211</em> with a passing grade.</td>
</tr>
<tr>
<td>Phys 212</td>
<td>3</td>
<td>Complete <em>Phys 212</em> with a passing grade.</td>
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<tr>
<td>Phys 221</td>
<td>1</td>
<td>Complete <em>Phys 221</em> with a passing grade.</td>
</tr>
</tbody>
</table>
## REQUIREMENT | HOURS | DESCRIPTION
--- | --- | ---
Phys 222 | 1 | Complete Phys 222 with a passing grade.

### 3 hrs fine arts
3 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.

### 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, Nsc 211, or Spch 105.

### 3 hrs fine arts/humanities/soc sci
3 Complete 3 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 - Pre-Med Studies

### REQUIREMENT | HOURS | DESCRIPTION
--- | --- | ---
Bisc 160 | 3 | Complete Bisc 160 with a passing grade.
Bisc 161 | 1 | Complete Bisc 161 with a passing grade.
Bisc 162 | 3 | Complete Bisc 162 with a passing grade.
Bisc 163 | 1 | Complete Bisc 163 with a passing grade.
Chem 221 | 3 | Complete Chem 221 with a passing grade.
Chem 222 | 3 | Complete Chem 222 with a passing grade.
Chem 225 | 1 | Complete Chem 225 with a passing grade.
Chem 226 | 1 | Complete Chem 226 with a passing grade.

### 5 hrs 200+ Chem, Bisc, or Psy
5 Complete 5-6 hours of Chemistry, Biology, or Psychology at the 200 level or above.
<table>
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<tbody>
<tr>
<td>12 hrs 300+ Chem, Bisc, or Psy</td>
<td>12</td>
<td>Complete 12 hours of Chemistry, Biology, or Psychology at the 300 level or above.</td>
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