Emphasis - Manufacturing

B.S. in Engineering

Description
The B.S. in engineering provides the student with a fundamental knowledge of 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: 127

General Education Requirements

- Writ 101 and 102
- 3 hours of fine arts
- 3 hours of humanities
- 3 hours of fine arts or humanities
- 3 hours of social science
- 3 additional hours of humanities, social science, or a general education course as defined by the School of Engineering
- Econ 310
- Math 261, 262, 263, 264, and 353
- Chem 105, 106, 115, 116
- Phys 211, 212, 221, 222

Course Requirements

- Engr 100 or Engr 102,
- Csci 251
- Engr 309, 310, 312, 313, 314, 321, 323, 330, 360, 361, 400, and Engr 450
- Manf 460
- 12 hours of approved engineering electives
  - 3 hours of which must be above the 200 level and
  - 9 hours of which must be above the 300 level

*The approved engineering electives are Engr 340, BME 200, BME 222, BME 301, BME 311, BME 313, BME 314, BME 333, BME 350, BME 370, BME 510, BME 523, BME 524, Ch E 307, Ch E 308, Ch E 413, Ch E 520, Ch E 521, Ch E 522, Ch E 523, Ch E 524, C E 207, C E 208, C E 210, C E 325, C E 471, C E 472, Csci 111, Csci 112, Csci 343, El E 235, El E 331, G E 305, G E 405, M E 324, M E 325, M E 401, M E 406, and M E 421.

Emphasis - Manufacturing

Description
Manufacturing Emphasis - This emphasis stresses manufacturing science and technology, while providing a cross-disciplinary foundation in business and accountancy to meet the need for qualified managerial and technical professionals in the rapidly expanding field of manufacturing. The curriculum provides core knowledge in engineering and manufacturing fundamentals with electives in accountancy, business, management information systems, and management and marketing. The student should consult with and obtain the approval of his/her academic adviser for the selection of the desired option courses.

Course Requirements

For an emphasis in manufacturing, students must complete the following 21 hours:

- Manf 150, 152, 252, 253, 255, 351, 353, 355, 455
- Accy 201, 202

Additionally, students must take Econ 202 and Econ 203 as part of the SS/Hum/FA 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.S. in Engineering

General Education

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>HOURS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Writing</td>
<td>6</td>
<td>Complete Hon 101, Writ 100, or Writ 101, and Complete one of the following courses: Liba 102, Writ 102 or Hon 102.</td>
</tr>
<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>
</tbody>
</table>
### REQUIREMENT | HOURS | DESCRIPTION
--- | --- | ---
Math 264 | 3 | Complete Math 264 with a passing grade.
Math 353 | 3 | Complete Math 353 with a passing grade.
Chem 105 | 3 | Complete Chem 105 with a passing grade.
Chem 106 | 3 | Complete Chem 106 with a passing grade.
Chem 115 | 1 | Complete Chem 115 with a passing grade.
Chem 116 | 1 | Complete Chem 116 with a passing grade.
Phys 211 | 3 | Complete Phys 211 with a passing grade.
Phys 212 | 3 | Complete Phys 212 with a passing grade.
Phys 221 | 1 | Complete Phys 221 with a passing grade.
Phys 222 | 1 | Complete Phys 222 with a passing grade.
Econ 310 | 3 | Complete Econ 310 with a passing grade.
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 | 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 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.
3 hrs social sciences | 3 | Complete 3 hours of social sciences, excluding Econ 310, 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, Edlid 110, Edlid 111, Edlid 120, Edlid 220, Engr 400, Mgmt 371, GB 370, Msl 102, Nsc 211, Spch 102 or Spch 105.

### Major Requirements

| REQUIREMENT | HOURS | DESCRIPTION |
--- | --- | ---
Engr 100 or Engr 102 | 3 | Complete Engr 100 or Engr 102 with a passing grade.
CSci 251 | 3 | Complete CSci 251 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 312 | 3 | Complete Engr 312 with a passing grade.
Engr 313 | 3 | Complete Engr 313 with a passing grade.
Engr 314 | 1 | Complete Engr 314 with a passing grade.
Engr 321 | 3 | Complete Engr 321 with a passing grade.
Engr 323 | 3 | Complete Engr 323 with a passing grade.
Engr 330 | 3 | Complete Engr 330 with a passing grade.
Engr 360 | 3 | Complete Engr 360 with a passing grade.
Engr 361 | 1 | Complete Engr 361 with a passing grade.
Engr 400 | 1 | Complete Engr 400 with a passing grade.
Engr 450 | 3 | Complete Engr 450 with a passing grade.
Manf 460 | 3 | Complete Manf 460 with a passing grade.
### REQUIREMENT | HOURS | DESCRIPTION
---|---|---
12 hrs approved engr electives | 12 | Complete 12 hours of approved engineering electives with 9 hrs at the 300+ level chosen from: Engr 340, BME 200, BME 222, BME 301, BME 311, BME 313, BME 314, BME 333, BME 350, BME 370, BME 510, BME 523, BME 524, Ch E 307, Ch E 308, Ch E 413, Ch E 520, Ch E 521, Ch E 522, Ch E 523, Ch E 524, C E 207, C E 208, C E 210, C E 325, C E 471, C E 472, Caci 111, Caci 112, Caci 343, El E 235, El E 331, G E 305, G E 405, M E 324, M E 325, M E 401, M E 406, and M E 421.

### Emphasis - Manufacturing

| REQUIREMENT | HOURS | DESCRIPTION |
---|---|---|
Manf 150 | 1 | Complete Manf 150 with a passing grade. |
Manf 152 | 1 | Complete Manf 152 with a passing grade. |
Manf 252 | 1 | Complete Manf 252 with a passing grade. |
Manf 253 | 3 | Complete Manf 253 with a passing grade. |
Manf 255 | 1 | Complete Manf 255 with a passing grade. |
Manf 351 | 1 | Complete Manf 351 with a passing grade. |
Manf 353 | 3 | Complete Manf 353 with a passing grade. |
Manf 355 | 1 | Complete Manf 355 with a passing grade. |
Manf 455 | 3 | Complete Manf 455 with a passing grade. |
Accy 201 | 3 | Complete Accy 201 with a passing grade. |
Accy 202 | 3 | Complete Accy 202 with a passing grade. |