

## Emphasis - Manufacturing

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## **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**

In addition to the courses specified by the School of Engineering general education requirements, the following are required: Math 263-264 and Math 353; laboratory science to be fulfilled by Chem 105, 106, 115, 116 and Phys 211, 212, 221, 222.

### **Course Requirements**

Candidates for the B.E. degree must complete the following courses: CSci 251; 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; 33 hours of an approved emphasis area. By the choice of emphasis area, students may choose to prepare to continue their education in - medical, - dental, - law, - business, or - graduate school in various fields of study.

## **Emphasis - Manufacturing** **Description**

Manufacturing Emphasis - This emphasis within the Bachelor of Engineering degree 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**

Candidates for the B.E. degree with an emphasis in manufacturing must complete the following courses: Csci 251; 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 manufacturing emphasis area. Please see an adviser within the B.E. degree program for 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**

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Chem 105</a>	3	Complete <a href="#">Chem 105</a> with a passing grade.
<a href="#">Chem 106</a>	3	Complete <a href="#">Chem 106</a> with a passing grade.
<a href="#">Chem 115</a>	1	Complete <a href="#">Chem 115</a> with a passing grade.
<a href="#">Chem 116</a>	1	Complete <a href="#">Chem 116</a> with a passing grade.
First Year Writing	6	Complete <a href="#">Hon 101</a> , <a href="#">Writ 100</a> , or <a href="#">Writ 101</a> . and Complete one of the following courses: <a href="#">Liba 102</a> , <a href="#">Writ 102</a> or <a href="#">Hon 102</a> .
<a href="#">Math 261</a>	3	Complete <a href="#">Math 261</a> with a passing grade.
<a href="#">Math 262</a>	3	Complete <a href="#">Math 262</a> with a passing grade.
<a href="#">Math 263</a>	3	Complete <a href="#">Math 263</a> with a passing grade.
<a href="#">Math 264</a>	3	Complete <a href="#">Math 264</a> with a passing grade.
<a href="#">Math 353</a>	3	Complete <a href="#">Math 353</a> with a passing grade.
<a href="#">Phys 211</a>	3	Complete <a href="#">Phys 211</a> with a passing grade.
<a href="#">Phys 212</a>	3	Complete <a href="#">Phys 212</a> with a passing grade.
<a href="#">Phys 221</a>	1	Complete <a href="#">Phys 221</a> with a passing grade.
<a href="#">Phys 222</a>	1	Complete <a href="#">Phys 222</a> with a passing grade.



REQUIREMENT	HOURS	DESCRIPTION
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 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.
6 hrs social sciences	6	Complete 6 hours of social sciences choosing from the following; economics, anthropology, political science, psychology, and sociology.
9 hrs general education work	9	Complete 9 hrs General Education work chosen from the following: additional fine art, additional social science, additional humanities, <a href="#">As 301</a> , <a href="#">As 302</a> , <a href="#">Bus 250</a> , <a href="#">Bus 271</a> , <a href="#">Edld 110</a> , <a href="#">Edld 111</a> , <a href="#">Edld 120</a> , <a href="#">Edld 220</a> , <a href="#">Engr 400</a> , <a href="#">Mgmt 371</a> , <a href="#">Msl 102</a> , <a href="#">Nsc 211</a> , or <a href="#">Spch 105</a> .

### Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Csci 251</a>	3	Complete <a href="#">Csci 251</a> with a passing grade.
<a href="#">Engr 309</a>	3	Complete <a href="#">Engr 309</a> with a passing grade.
<a href="#">Engr 310</a>	3	Complete <a href="#">Engr 310</a> with a passing grade.
<a href="#">Engr 321</a>	3	Complete <a href="#">Engr 321</a> with a passing grade.
<a href="#">Engr 313</a>	3	Complete <a href="#">Engr 313</a> with a passing grade.
<a href="#">Engr 330</a>	3	Complete <a href="#">Engr 330</a> with a passing grade.
<a href="#">Engr 362</a>	3	Complete <a href="#">Engr 362</a> with a passing grade.
<a href="#">Engr 363</a>	1	Complete <a href="#">Engr 363</a> with a passing grade.
<a href="#">Engr 400</a>	1	Complete <a href="#">Engr 400</a> with a passing grade.
9 hrs engineering electives	9	Successfully complete 9 hours of technical engineering electives chosen from any course offered by the School of Engineering except required courses.
School of Engineering GPA		Must be at least a 2.0

### Non-specialization Requirements

REQUIREMENT	HOURS	DESCRIPTION
33 hrs emphasis area	33	Complete 33 hours of an approved emphasis area. By the choice of emphasis area, students may choose to prepare to continue their education in medical, law, education, business, or another field of study.
9 hrs engineering electives	9	Successfully complete 9 hours of technical engineering electives chosen from any course offered by the School of Engineering except required courses.

### Emphasis - Manufacturing

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Accy 201</a>	3	Complete <a href="#">Accy 201</a> with a passing grade.
<a href="#">Bus 321</a>	3	Complete <a href="#">Bus 321</a> with a passing grade.
<a href="#">Engr 312</a>	3	Complete <a href="#">Engr 312</a> with a passing grade.
<a href="#">Fin 331</a>	3	Complete <a href="#">Fin 331</a> with a passing grade.
<a href="#">Manf 150</a>	1	Complete <a href="#">Manf 150</a> with a passing grade.
<a href="#">Manf 250</a>	1	Complete <a href="#">Manf 250</a> with a passing grade.
<a href="#">Manf 251</a>	3	Complete <a href="#">Manf 251</a> with a passing grade.
<a href="#">Manf 252</a>	1	Complete <a href="#">Manf 252</a> with a passing grade. (Counting as a 200-level engineering elective)
<a href="#">Manf 253</a>	3	Complete <a href="#">Manf 253</a> with a passing grade.
<a href="#">Manf 254</a>	3	Complete <a href="#">Manf 254</a> with a passing grade.



REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Manf 450</a>	3	Successfully complete <a href="#">Manf 450</a> with a passing grade.
<a href="#">Manf 451</a>	3	Successfully complete <a href="#">Manf 451</a> with a passing grade.
<a href="#">Mgmt 371</a>	3	Complete <a href="#">Mgmt 371</a> with a passing grade.
<a href="#">Mgmt 383</a>	3	Complete <a href="#">Mgmt 383</a> with a passing grade.
<a href="#">Mgmt 372</a>	3	Complete <a href="#">Mgmt 372</a> with a passing grade.
<a href="#">Mktg 351</a>	3	Complete <a href="#">Mktg 351</a> with a passing grade.

