

## 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

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 - 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: Math 261-264, Math 353; Writ 100 or Writ 101, Writ 102 or Liba 102; Chem 105, 106, 115, 116, and Phys 211, 212, 221, 222; Csci 251; Manf 250; Engr 309, 310, 313, 321, 330, 360, 361, 400; 9 hours of technical engineering electives including specifically Engr 312; Manf 450, 451, 452; 21 hours of humanities/social science/fine arts/general education including specifically Econ 202, 203, 230; Bus 250; one humanities; one fine arts; one additional humanities or fine arts; and 33 hours in the manufacturing emphasis area including Manf 150, 251, 252, 253, 254, 350, 351, 353; Accy 201 and 202; Mktg 351; Mgmt 371; Bus 321. Please see an advisor 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.                                                                                                                                                                 |



| REQUIREMENT                        | HOURS | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                |
| 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, <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="#">Mgmt 371</a> , <a href="#">Msl 102</a> , <a href="#">Nsc 211</a> , or <a href="#">Spch 105</a> . |
| 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                                                                                                                             |
|------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Csci 251</a>                             | 3     | Complete <a href="#">Csci 251</a> with a passing grade.                                                                                 |
| <a href="#">Engr 100</a>                             | 3     | Complete <a href="#">Engr 100</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 313</a>                             | 3     | Complete <a href="#">Engr 313</a> with a passing grade.                                                                                 |
| <a href="#">Engr 321</a>                             | 3     | Complete <a href="#">Engr 321</a> with a passing grade.                                                                                 |
| <a href="#">Engr 360</a> or <a href="#">Engr 362</a> | 3     | Complete either <a href="#">Engr 360</a> or <a href="#">Engr 362</a> with a passing grade.                                              |
| <a href="#">Engr 361</a> or <a href="#">Engr 363</a> | 1     | Complete either <a href="#">Engr 361</a> or <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.                                                                                 |
| <a href="#">Engr 330</a>                             | 3     | Complete <a href="#">Engr 330</a> 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.                      |
| 3 hrs SOE tech elect at 300+ level                   | 3     | Complete at least 3 hours of additional coursework offered by the School of Engineering at the 300-level or above with a passing grade. |
| Enroll in a BE emphasis                              |       | Enroll in an emphasis within the B.E. in Engineering program.                                                                           |
| School of Engineering GPA                            |       | Must be at least a 2.0                                                                                                                  |

### Emphasis - Manufacturing

| REQUIREMENT                                         | HOURS | DESCRIPTION                                                                        |
|-----------------------------------------------------|-------|------------------------------------------------------------------------------------|
| <a href="#">Accy 201</a>                            | 3     | Complete <a href="#">Accy 201</a> with a passing grade.                            |
| <a href="#">Accy 202</a>                            | 3     | Complete <a href="#">Accy 202</a> with a passing grade.                            |
| <a href="#">Bus 230</a> or <a href="#">Econ 230</a> | 3     | Complete <a href="#">Bus 230</a> or <a href="#">Econ 230</a> with a passing grade. |
| <a href="#">Bus 250</a>                             | 3     | Complete <a href="#">Bus 250</a> with a passing grade.                             |
| <a href="#">Bus 321</a>                             | 3     | Complete <a href="#">Bus 321</a> with a passing grade.                             |



| REQUIREMENT              | HOURS | DESCRIPTION                                                                                            |
|--------------------------|-------|--------------------------------------------------------------------------------------------------------|
| <a href="#">Econ 202</a> | 3     | Complete <a href="#">Econ 202</a> with a passing grade. (Counting as a social science elective)        |
| <a href="#">Econ 203</a> | 3     | Complete <a href="#">Econ 203</a> with a passing grade.                                                |
| <a href="#">Mktg 351</a> | 3     | Complete <a href="#">Mktg 351</a> with a passing grade.                                                |
| <a href="#">Mgmt 371</a> | 3     | Complete <a href="#">Mgmt 371</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.                                                |
| <a href="#">Manf 350</a> | 3     | Complete <a href="#">Manf 350</a> with a passing grade.                                                |
| <a href="#">Manf 351</a> | 1     | Complete <a href="#">Manf 351</a> with a passing grade.                                                |
| <a href="#">Manf 353</a> | 3     | Complete <a href="#">Manf 353</a> with a passing grade.                                                |

