

Emphasis - Business Administration

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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

Goals/Mission Statement

Program Educational Objectives

Graduates from the program, within 3-5 years after graduation, will:

- Meet or exceed the expectations of employers of general engineers;
- Continue their professional development by pursuing advanced study, including licensure and certifications if they so desire; and
- Continue their professional development by pursuing leadership opportunities and other positions of service in their profession and/or communities.

Student Outcomes

BSE students at the University of Mississippi should demonstrate the attainment of the following student outcomes:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

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 pre-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, EI E 235, EI E 331, G E 305, G E 405, M E 324, M E 325, M E 401, M E 406, and M E 421. Engineering courses not included in this list must be pre-approved by the director of general engineering

Emphasis - Business Administration **Description**

For students earning an emphasis in business administration, coursework is designed to prepare them for an MBA graduate program.

Course Requirements

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



- Accy 201 and Accy 202
- Mktg 351
- Fin 331
- Mgmt 371
- Bus 230 and 250

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

| REQUIREMENT | HOURS | DESCRIPTION |
|----------------------------|-------|---|
| First Year Writing | 6 | Complete Hon 101 , Writ 100 , or Writ 101 . and Complete one of the following courses: Liba 102 , Writ 102 or Hon 102 . |
| Math 261 | 3 | Complete Math 261 with a passing grade. |
| Math 262 | 3 | Complete Math 262 with a passing grade. |
| Math 263 | 3 | Complete Math 263 with a passing grade. |
| 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 , Edld 110 , Edld 111 , Edld 120 , Edld 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. |



| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------------|-------|---|
| 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. |
| 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 , Csci 111 , Csci 112 , Csci 343 , EIE 235 , EIE 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421 |

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| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Accy 201 | 3 | Complete Accy 201 with a passing grade. |
| Accy 202 | 3 | Complete Accy 202 with a passing grade. |
| Mktg 351 | 3 | Complete Mktg 351 with a passing grade. |
| Fin 331 | 3 | Complete Fin 331 with a passing grade. |
| Mgmt 371 | 3 | Complete Mgmt 371 with a passing grade. |
| Bus 230 | 3 | Complete Bus 230 with a passing grade. |
| Bus 250 | 3 | Complete Bus 250 with a passing grade. |

