Emphasis - Military Science

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, languages (modern, Greek, or Latin), or humanities
- 3 hours of social science
- 3 additional hours of humanities, languages (modern, Greek, or Latin), 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, 322, 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, 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. Engineering courses not included in this list must be pre-approved by the director of general engineering

Emphasis - Military Science

Description
Students seeking an emphasis in military science will be assigned an adviser in both the Department of Military Science and School of Engineering.

Course Requirements

For an emphasis in military science, students must complete 21 credit hours chosen from the following:
The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

https://catalog.olemiss.edu/2024/fall/undergraduate/engineering/bs-engineer/bs-eng-miltry
### REQUIREMENT

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>HOURS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr 314</td>
<td>1</td>
<td>Complete Engr 314 with a passing grade.</td>
</tr>
<tr>
<td>Engr 321</td>
<td>3</td>
<td>Complete Engr 321 with a passing grade.</td>
</tr>
<tr>
<td>Engr 323</td>
<td>3</td>
<td>Complete Engr 323 with a passing grade.</td>
</tr>
<tr>
<td>Engr 330</td>
<td>3</td>
<td>Complete Engr 330 with a passing grade.</td>
</tr>
<tr>
<td>Engr 360</td>
<td>3</td>
<td>Complete Engr 360 with a passing grade.</td>
</tr>
<tr>
<td>Engr 361</td>
<td>1</td>
<td>Complete Engr 361 with a passing grade.</td>
</tr>
<tr>
<td>Engr 400</td>
<td>1</td>
<td>Complete Engr 400 with a passing grade.</td>
</tr>
<tr>
<td>Engr 450</td>
<td>3</td>
<td>Complete Engr 450 with a passing grade.</td>
</tr>
<tr>
<td>Manf 460</td>
<td>3</td>
<td>Complete Manf 460 with a passing grade.</td>
</tr>
<tr>
<td>12 hrs approved engr electives</td>
<td>12</td>
<td>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, 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.</td>
</tr>
</tbody>
</table>

### Emphasis - Military Science

<table>
<thead>
<tr>
<th>REQUIREMENT</th>
<th>HOURS</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 hrs from selected courses</td>
<td>21</td>
<td>Complete 21 hrs chosen from the following courses: MSL 201, 202, 203, 301, 302, 340, 399, 401, 402, and ISS 125 with a passing grade.</td>
</tr>
<tr>
<td>3 hrs social sciences</td>
<td>3</td>
<td>Successfully complete 3 hrs of social science with a passing grade chosen from anthropology (Anth), economics (Econ), political science (Pol), psychology (Psy), sociology (Soc), Liba 203, 313, or Hon 101, 102.</td>
</tr>
<tr>
<td>3 hrs gen ed, lang, or SS/H/FA</td>
<td>3</td>
<td>Complete 3 additional hours with a passing grade of humanities, languages (modern, Greek, or Latin), social science, or a general education course as defined by the School of Engineering.</td>
</tr>
</tbody>
</table>