

Emphasis - Naval Science

- B.S. in Engineering
- Emphasis Naval Science
- Degree Requirements

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, 323, 330, 360, 361, 400, and Engr 450
- Manf 460
- 12 hours of approved engineering electives
 - o 3 hours of which must be above the 200 level and
 - $\circ~$ 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 - Naval Science Description

Students seeking an emphasis in naval science will be assigned an adviser in both the Department of Naval Science and School of Engineering.

Course Requirements

For an emphasis in naval science, students must complete 21 credit hours chosen from the following:

• NSC 211, 212, 213, 215, 216, 310, 312, 313, 315, 316, 317, 318, 320, 410, 412, 413, 415, 416, 417, or 418,

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 I	3	Sucessfully complete Hon 101, Writ 100, or Writ 101.
First Year Writing II	3	Successfully complete one of the following courses: Liba 1 Writ 102 or Hon 102.
3 hrs humanities	3	Successfully complete 3 hrs of humanities with a passing grade chosen from the following: African American studies (<u>Aas 201, 202</u>), classics (Clc), environmental studies (<u>Envs 101</u>), gender studies (<u>G St 201, 202</u>), history (Hst), liberal arts (<u>Liba 202, 305, 312</u>), literature (<u>Eng 103, 220</u> -226), philosophy (Phil), religion (Rel), Southern studies 100-level, and either <u>Hon 101</u> or <u>102</u> (if not being used to fulfill composition requirements).
3 hrs fine arts	3	Complete 3 hrs of fine arts with a passing grade chosen from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Courses that satisfy this requirement are any Art History (AH); Liba 130, 204, 314; Mus 101, 102, 103, 104, 105; Danc 200; Thea 201, 202.
3 hrs FA/Lang/Hum	3	Successfully complete 3 hrs of Fine Arts, Humanities, or Modern language with a passing grade. Modern Language include courses in courses in Ancient Greek (Gr), Arabic (Arab) nd Swahili (Swa). (Japn), Korean (Kor), Latin (Lat), Portuguese (Port), Russian (Russ), Spanish
Econ 310	3	Successfully complete Econ 310.

General Education II

REQUIREMENT	HOURS	DESCRIPTION
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.
<u>Chem 105</u>	3	Complete Chem 105 with a passing grade.
<u>Chem 115</u>	1	Complete Chem 115 with a passing grade.
<u>Chem 106</u>	3	Complete Chem 106 with a passing grade.
<u>Chem 116</u>	1	Complete Chem 116 with a passing grade.
Phys 211	3	Complete Phys 211 with a passing grade.
Phys 221	1	Complete Phys 221 with a passing grade.
Phys 212	3	Complete Phys 212 with a passing grade.
Phys 222	1	Complete Phys 222 with a passing grade.

Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
Engr 100 or Engr 102	3	Complete Engr 100 or Engr 102 with a passing grade.
<u>CSci 251</u>	3	Complete CSci 251 with a passing grade.
Engr 201	3	Complete Engr 201 with a passing grade.

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.





REQUIREMENT	HOURS	DESCRIPTION
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 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 431	3	Complete Engr 431 with a passing grade.
Engr 451	2	Complete Engr 451 with a passing grade.
Engr 452	1	Complete Engr 452 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 301, BME 311, BME 312, BME 313, BME 314, BME 333, BME 370, BME 510, BME 524, Ch E 521 , Ch E 523 , Ch E 524 , C E 207 , C E 210 , C E 207 , C E 207 , C E 208 , C E 210 , C E 207 , C E 208 , <a <="" href="C E 208" td="">

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REQUIREMENT	HOURS	DESCRIPTION
18 hrs from selected courses	18	Complete 18 hrs chosen from the following courses: <u>NSC 211</u> , <u>212</u> , <u>213</u> , <u>215</u> , <u>216</u> , <u>310</u> , <u>312</u> , <u>313</u> , <u>315</u> , <u>316</u> , <u>317</u> , <u>318</u> , <u>320</u> , <u>410</u> , <u>412</u> , <u>413</u> , <u>415</u> , <u>416</u> , <u>417</u> , or <u>NSC 418</u> with a passing grade.
3 hrs social sciences	3	Successfully complete 3 hrs of social science with a passing grade chosen from anthropology (Anth), economics (Econ), political science (Pol), psychology (Psy), sociology (Soc), <u>Liba 203</u> , <u>313</u> , or <u>Hon 101</u> , <u>102</u>
3 hrs gen ed, lang, or SS/H/FA	3	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

