

# B.S.B.E. in Biomedical Engineering

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## 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.B.E. in Biomedical Engineering

### General Education

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Successfully complete <a href="#">Hon 101</a> , <a href="#">Writ 100</a> , or <a href="#">Writ 101</a> with a passing grade.
First Year Writing II	3	Successfully complete one of the following courses with a passing grade: <a href="#">Writ 102</a> , <a href="#">Liba 102</a> , <a href="#">Hon 102</a> .
6 hrs humanities	6	Successfully complete 6 hrs of humanities with a passing grade chosen from the following: African American studies ( <a href="#">Aas 201</a> , <a href="#">202</a> ), classics (Clc), English ( <a href="#">Eng 220-226</a> ), gender studies ( <a href="#">G St 201</a> , <a href="#">202</a> ), history (Hst), liberal arts ( <a href="#">Liba 202</a> , <a href="#">305</a> , <a href="#">312</a> ), philosophy (Phil), religion (Rel), Southern studies ( <a href="#">S St 100</a> -level), and either <a href="#">Hon 101</a> or <a href="#">102</a> (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); <a href="#">Liba 130</a> , <a href="#">204</a> , <a href="#">314</a> ; <a href="#">Mus 101</a> , <a href="#">102</a> , <a href="#">103</a> , <a href="#">104</a> , <a href="#">105</a> ; <a href="#">Danc 200</a> ; <a href="#">Thea 201</a> , <a href="#">202</a> .

### General Education II

REQUIREMENT	HOURS	DESCRIPTION
<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="#">Bisc 160</a>	3	Complete <a href="#">Bisc 160</a> with a passing grade.
<a href="#">Bisc 161</a>	1	Complete <a href="#">Bisc 161</a> with a passing grade.
<a href="#">Bisc 162</a>	3	Complete <a href="#">Bisc 162</a> with a passing grade.
<a href="#">Bisc 163</a>	1	Complete <a href="#">Bisc 163</a> with a passing grade.
<a href="#">Chem 105</a>	3	Complete <a href="#">Chem 105</a> with a passing grade.
<a href="#">Chem 115</a>	1	Complete <a href="#">Chem 115</a> with a passing grade.
<a href="#">Chem 106</a>	3	Complete <a href="#">Chem 106</a> with a passing grade.
<a href="#">Chem 116</a>	1	Complete <a href="#">Chem 116</a> with a passing grade.
<a href="#">Chem 221</a>	3	Complete <a href="#">Chem 221</a> with a passing grade.
<a href="#">Chem 225</a>	1	Complete <a href="#">Chem 225</a> with a passing grade.
<a href="#">Phys 211</a>	3	Complete <a href="#">Phys 211</a> with a passing grade.
<a href="#">Phys 221</a>	1	Complete <a href="#">Phys 221</a> with a passing grade.
<a href="#">Phys 212</a>	3	Complete <a href="#">Phys 212</a> with a passing grade.
<a href="#">Phys 222</a>	1	Complete <a href="#">Phys 222</a> with a passing grade.

### Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">BME 200</a>	2	Complete <a href="#">BME 200</a> with a passing grade.
<a href="#">BME 222</a>	3	Complete <a href="#">BME 222</a> with a passing grade.
<a href="#">BME 305</a>	3	Complete <a href="#">BME 305</a> with a passing grade.

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REQUIREMENT	HOURS	DESCRIPTION
<a href="#">BME 311</a>	3	Complete <a href="#">BME 311</a> with a passing grade.
<a href="#">BME 313</a>	3	Complete <a href="#">BME 313</a> with a passing grade.
<a href="#">BME 314</a>	1	Complete <a href="#">BME 314</a> with a passing grade.
<a href="#">BME 315</a>	3	Complete <a href="#">BME 315</a> with a passing grade.
<a href="#">BME 333</a>	3	Complete <a href="#">BME 333</a> with a passing grade.
<a href="#">BME 400</a>	1	Complete <a href="#">BME 400</a> with a passing grade.
<a href="#">BME 370</a>	3	Complete <a href="#">BME 370</a> with a passing grade.
<a href="#">BME 444</a>	3	Complete <a href="#">BME 444</a> with a passing grade.
<a href="#">BME 461</a>	2	Complete <a href="#">BME 461</a> with a passing grade.
<a href="#">BME 462</a>	2	Complete <a href="#">BME 462</a> with a passing grade.

### Major Requirements II

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Engr 101</a> & 111	3	Complete <a href="#">Engr 101</a> & 111 with a passing grade.
<a href="#">Engr 360</a>	3	Complete <a href="#">Engr 360</a> with a passing grade.

### Emphasis - Biomolecular

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">BME 256</a>	3	Complete <a href="#">BME 256</a> with a passing grade.
<a href="#">Bisc 333</a>	4	Complete <a href="#">Bisc 333</a> with a passing grade.
<a href="#">BME 520</a>	3	Complete <a href="#">BME 520</a> with a passing grade.
6 hrs BME courses	6	Complete 6 hrs with a passing grade chosen from the following: <a href="#">BME 510</a> , <a href="#">522</a> , <a href="#">523</a> , & <a href="#">BME 524</a> .
9 hrs emph elect	9	Complete 9 hrs of biomolecular electives with a passing grade chosen from the following: <a href="#">Bisc 306</a> , <a href="#">310</a> , <a href="#">336</a> , <a href="#">340</a> , <a href="#">Ch E 535</a> , <a href="#">540</a> , <a href="#">543</a> , <a href="#">550</a> , <a href="#">Chem 222</a> , <a href="#">Chem 471</a> , Any <a href="#">BME 300+</a> , ( <a href="#">Chem 222</a> & 471 paired).
6 hrs social sciences	6	Students need to complete 6 hours of social science with a passing grade chosen from the following: anthropology (Anth), economics (Econ), liberal arts ( <a href="#">Liba 203</a> , <a href="#">Liba 313</a> ), political science (Pol), psychology (Psy), sociology (Soc), and either <a href="#">Hon 101</a> or <a href="#">Hon 102</a> (if not being used to fulfill composition requirements).

### Emphasis - Biodevices

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">BME 256</a>	3	Complete <a href="#">BME 256</a> with a passing grade.
<a href="#">BME 301</a>	3	Complete <a href="#">BME 301</a> with a passing grade.
<a href="#">BME 322</a>	3	Complete <a href="#">BME 322</a> with a passing grade.
<a href="#">BME 413</a>	3	Complete <a href="#">BME 413</a> with a passing grade.
<a href="#">Engr 309</a>	3	Complete <a href="#">Engr 309</a> with a passing grade.
<a href="#">Engr 312</a>	3	Complete <a href="#">Engr 312</a> with a passing grade.
6 hrs emph elect	6	Complete 6 hrs with a passing grade chosen from the following: <a href="#">BME 353</a> , <a href="#">411</a> , <a href="#">510</a> , <a href="#">511</a> , <a href="#">520</a> , <a href="#">522</a> , <a href="#">523</a> , <a href="#">524</a> ; <a href="#">M E 325</a> , <a href="#">541</a> ; <a href="#">Math 301</a> , <a href="#">Math 319</a> .
6 hrs social sciences	6	Students need to complete 6 hours of social science with a passing grade chosen from the following: anthropology (Anth), economics (Econ), liberal arts ( <a href="#">Liba 203</a> , <a href="#">Liba 313</a> ), political science (Pol), psychology (Psy), sociology (Soc), and either <a href="#">Hon 101</a> or <a href="#">Hon 102</a> (if not being used to fulfill composition requirements).

### Emphasis - Bioinformatics

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">CSci 256</a>	3	Complete <a href="#">CSci 256</a> with a passing grade.
<a href="#">Bisc 336</a>	4	Complete <a href="#">Bisc 336</a> with a passing grade.
<a href="#">Csci 343</a>	3	Complete <a href="#">Csci 343</a> with a passing grade.



REQUIREMENT	HOURS	DESCRIPTION
<a href="#">Csci 375</a>	3	Complete <a href="#">Csci 375</a> with a passing grade.
6 hrs Csci elective	6	Complete 6 hrs from the following with a passing grade: <a href="#">Csci 345</a> , <a href="#">CSci 356</a> , <a href="#">Csci 443</a> , <a href="#">Csci 444</a> , <a href="#">Csci 447</a> , or <a href="#">Csci 547</a> .
6 hrs 300+ CSci or Engr courses	6	Complete 6 hrs of CSci or Engineering courses at the 300+ level with a passing grade.
6 hrs social sciences	6	Students need to complete 6 hours of social science with a passing grade chosen from the following: anthropology (Anth), economics (Econ), liberal arts ( <a href="#">Liba 203</a> , <a href="#">Liba 313</a> ), political science (Pol), psychology (Psy), sociology (Soc), and either <a href="#">Hon 101</a> or <a href="#">Hon 102</a> (if not being used to fulfill composition requirements).

### Emphasis - Pre Med

REQUIREMENT	HOURS	DESCRIPTION
<a href="#">BME 256</a>	3	Complete <a href="#">BME 256</a> with a passing grade.
<a href="#">Chem 222</a> & <a href="#">226</a>	4	Complete <a href="#">Chem 222</a> & <a href="#">Chem 226</a> with a passing grade.
<a href="#">Chem 471</a>	3	Complete <a href="#">Chem 471</a> with a passing grade.
<a href="#">Bisc 336</a>	4	Complete <a href="#">Bisc 336</a> with a passing grade.
<a href="#">Bisc 440</a>	4	Complete <a href="#">Bisc 440</a> with a passing grade.
6 hrs BME courses	6	Complete 6 hrs of BME courses with a passing grade chosen from the following: <a href="#">BME 510</a> , <a href="#">520</a> , <a href="#">522</a> , <a href="#">523</a> , <a href="#">524</a> .
<a href="#">Psy 201</a>	3	Complete <a href="#">Psy 201</a> with a passing grade.
<a href="#">Soc 101</a>	3	Complete <a href="#">Soc 101</a> with a passing grade.

