

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 Hon 101 , Writ 100 , or Writ 101 with a passing grade. |
| First Year Writing II | 3 | Successfully complete one of the following courses with a passing grade: Writ 102 , Liba 102 , Hon 102 . |
| 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), Liba 203 , 313 , or Hon 101 , 102 |
| Econ 310 | 3 | Successfully complete Econ 310 with a passing grade. |
| 3 hrs humanities | 3 | Courses may be chosen from African American studies (AAS 201 , 202); classical civilization (Clc); environmental studies (Envs 101); gender studies (G St 201 , 202); history (Hst); Liba 202 , 312 , 305 ; literature (Eng 103 , 220-226); philosophy (Phil); religion (Rel); Southern studies 100 level; or Hon 101 , 102 (if not being used to fulfill composition requirements). Additionally, students of the School of Engineering may count up to 3 credit hours of a language course (modern or Greek or Latin) with a grade of C or better to fulfill a humanities requirement. The course will be entered upon request in the student's degree audit as an approved substitute. |
| 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 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 gen ed or SS/H/FA | 3 | Successfully complete 3 hrs General Education work with a passing grade 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 . |
| 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. |

Major Requirements

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| BME 200 | 2 | Complete BME 200 with a passing grade. |
| BME 222 | 3 | Complete BME 222 with a passing grade. |
| BME 313 | 3 | Complete BME 313 with a passing grade. |
| BME 314 | 1 | Complete BME 314 with a passing grade. |
| BME 333 | 3 | Complete BME 333 with a passing grade. |
| BME 370 | 3 | Complete BME 370 with a passing grade. |
| BME 444 | 3 | Complete BME 444 with a passing grade. |
| BME 461 | 2 | Complete BME 461 with a passing grade. |
| BME 462 | 2 | Complete BME 462 with a passing grade. |
| Bisc 160 | 3 | Complete Bisc 160 with a passing grade. |
| Bisc 161 | 1 | Complete Bisc 161 with a passing grade. |



| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Bisc 162 | 3 | Complete Bisc 162 with a passing grade. |
| Bisc 163 | 1 | Complete Bisc 163 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. |
| Chem 221 | 3 | Complete Chem 221 with a passing grade. |
| Chem 222 | 3 | Complete Chem 222 with a passing grade. |
| Chem 225 | 1 | Complete Chem 225 with a passing grade. |
| Chem 226 | 1 | Complete Chem 226 with a passing grade. |
| Ch E 307 | 2 | Complete Ch E 307 with a passing grade. |
| Ch E 308 | 2 | Complete Ch E 308 with a passing grade. |
| Csci 251 | 3 | Complete Csci 251 with a passing grade. |
| El E 331 | 3 | Complete El E 331 with a passing grade. |
| Engr 360 | 3 | Complete Engr 360 with a passing grade. |
| Engr 400 | 1 | Complete Engr 400 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. |

Emphasis - Biomolecular

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Bisc 336 | 4 | Complete Bisc 336 with a passing grade. |
| BME 320 | 3 | Complete BME 320 with a passing grade. |
| BME 510 | 3 | Complete BME 510 with a passing grade. |
| Ch E 520 | 3 | Complete Ch E 520 with a passing grade. |
| 6 hrs track electives | 6 | Complete 6 hrs of track electives with a passing grade. |

Emphasis - Biodevices

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| BME 301 | 3 | Complete BME 301 with a passing grade. |
| BME 311 | 3 | Complete BME 311 with a passing grade. |
| BME 413 | 3 | Complete BME 413 with a passing grade. |
| Engr 309 | 3 | Complete Engr 309 with a passing grade. |
| Engr 312 | 3 | Complete Engr 312 with a passing grade. |
| Engr 361 | 1 | Complete Engr 361 with a passing grade. |
| M E 325 | 3 | Complete M E 325 with a passing grade. |

Emphasis - Bioinformatics

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Bisc 336 | 4 | Complete Bisc 336 with a passing grade. |
| Csci 343 | 3 | Complete Csci 343 with a passing grade. |



| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|--|
| Csci 475 | 3 | Complete Csci 475 with a passing grade. |
| 6 hrs Csci elective | 6 | Complete 6 hrs from the following with a passing grade: Csci 345 , CSci 356 , Csci 443 , Csci 444 , Csci 447 , or Csci 547 . |
| 3 hrs track electives | 3 | Complete 3 hours of track electives with a passing grade. |

Emphasis - Pre Med

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Bisc 336 | 4 | Complete Bisc 336 with a passing grade. |
| Bisc 440 | 4 | Complete Bisc 440 with a passing grade. |
| Chem 471 | 3 | Complete Chem 471 with a passing grade. |
| BME 320 | 3 | Complete BME 320 with a passing grade. |
| BME 510 | 3 | Complete BME 510 with a passing grade. |
| BME 522 | 3 | Complete BME 522 with a passing grade. |

