

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 humanities | 3 | Successfully complete 3 hrs of humanities with a passing grade chosen from the following: African American studies (Aas 201 , 202), classics (Clc), environmental studies (Envs 101), gender studies (G St 201 , 202), history (Hst), liberal arts (Liba 202 , 305 , 312), literature (Eng 103 , 220-226), philosophy (Phil), religion (Rel), Southern studies 100-level, and either Hon 101 or 102 (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 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 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), Liba 203 , 313 , or Hon 101 , 102 |

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. |
| Bisc 160 | 3 | Complete Bisc 160 with a passing grade. |
| Bisc 161 | 1 | Complete Bisc 161 with a passing grade. |
| 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 115 | 1 | Complete Chem 115 with a passing grade. |
| Chem 106 | 3 | Complete Chem 106 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 225 | 1 | Complete Chem 225 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 |
|-------------------------|-------|--|
| BME 200 | 2 | Complete BME 200 with a passing grade. |
| BME 222 | 3 | Complete BME 222 with a passing grade. |
| BME 305 | 3 | Complete BME 305 with a passing grade. |
| BME 311 | 3 | Complete BME 311 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 315 | 3 | Complete BME 315 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. |

Major Requirements II

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| CSci 256 | 3 | Complete CSci 256 with a passing grade. |
| Engr 360 | 3 | Complete Engr 360 with a passing grade. |
| Engr 400 | 1 | Complete Engr 400 with a passing grade. |

Emphasis - Biomolecular

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Bisc 333 | 4 | Complete Bisc 333 with a passing grade. |
| BME 520 | 3 | Complete BME 520 with a passing grade. |
| 6 hrs BME courses | 6 | Complete 6 hrs with a passing grade chosen from the following: BME 510 , 522 , 523 , & BME 524 . |
| 9 hrs emph elect | 9 | Complete 9 hrs of biomolecular electives with a passing grade chosen from the following: Bisc 306 , 310 , 336 , 340 , Ch E 535 , 540 , 543 , 550 , Chem 222 , Chem 471 , Any BME 300+ , (Chem 222 & 471 paired). |

Emphasis - Biodevices

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|--|
| BME 301 | 3 | Complete BME 301 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. |
| 9 hrs emph elect | 9 | Complete 9 hrs with a passing grade chosen from the following: BME 353 , 411 , 510 , 511 , 520 , 522 , 523 , 524 ; M E 325 , 541 ; Math 301 , Math 319 . |

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. |
| 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 . |

Emphasis - Pre Med



| REQUIREMENT | HOURS | DESCRIPTION |
|--|-------|---|
| Chem 222 & 226 | 4 | Complete Chem 222 & Chem 226 with a passing grade. |
| Chem 471 | 3 | Complete Chem 471 with a passing grade. |
| Bisc 336 | 4 | Complete Bisc 336 with a passing grade. |
| Bisc 440 | 4 | Complete Bisc 440 with a passing grade. |
| 6 hrs BME courses | 6 | Complete 6 hrs of BME courses with a passing grade chosen from the following: BME 510 , 520 , 522 , 523 , 524 . |

