

B.S. in 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. in Engineering

General Education

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Successfully 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 .
6 hrs humanities	6	Successfully complete 6 hrs of humanities with a passing grade chosen from the following: African American studies (Aas 201 , 202), classics (Clc), English (Eng 220-226), gender studies (G St 201 , 202), history (Hst), liberal arts (Liba 202 , 305 , 312), philosophy (Phil), religion (Rel), Southern studies (S St 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 .
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).

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.
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.
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 101 & 111	3	Complete Engr 101 and 111 with a passing grade.
CSci 256	3	Complete CSci 256 with a passing grade.
Engr 201 or Manf 250	3	Complete Engr 201 or Manf 250 with a passing grade.
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.



REQUIREMENT	HOURS	DESCRIPTION
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 345	3	Complete Engr 345 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.

Emphasis - Aerospace Studies

REQUIREMENT	HOURS	DESCRIPTION
18 hrs of AS courses	18	For an emphasis in aerospace studies students must complete 18 hrs from the following: AS 101 , AS 102 , AS 105 , AS 111 , AS 112 , AS 201 , AS 202 , AS 211 , AS 212 , AS 301 , AS 302 , AS 311 , AS 312 , AS 401 , AS 402 , AS 411 , and AS 412
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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

Emphasis - Business Administration

REQUIREMENT	HOURS	DESCRIPTION
Accy 201	3	Complete Accy 201 with a passing grade.
Accy 202	3	Complete Accy 202 with a passing grade.
Mktg 351 or Mgmt 371	3	Complete Mktg 351 or Mgmt 371 with a passing grade.
Bus 230 or Econ 230	3	Complete Bus 230 or Econ 230 with a passing grade.
Bus 250	3	Complete Bus 250 with a passing grade.
Fin 331	3	Complete Fin 331 with a passing grade.
Econ 202	3	Complete Econ 202 with a passing grade.
Econ 203	3	Complete Econ 203 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 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

Emphasis - Manufacturing

REQUIREMENT	HOURS	DESCRIPTION
Manf 150	1	Complete Manf 150 with a passing grade.
Manf 152	1	Complete Manf 152 with a passing grade.
Manf 251	3	Complete Manf 251 with a passing grade.



REQUIREMENT	HOURS	DESCRIPTION
Manf 252	1	Complete Manf 252 with a passing grade.
Manf 255	1	Complete Manf 255 with a passing grade.
Manf 325	3	Complete Manf 325 with a passing grade.
Manf 351	1	Complete Manf 351 with a passing grade.
Manf 353	3	Complete Manf 353 with a passing grade.
Manf 355	1	Complete Manf 355 with a passing grade.
Manf 455	3	Complete Manf 455 with a passing grade.
Econ 202	3	Complete Econ 202 with a passing grade.
Econ 203	3	Complete Econ 203 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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Military Science

REQUIREMENT	HOURS	DESCRIPTION
18 hrs from selected courses	18	Complete 18 hrs chosen from the following courses: MSL 201 , 202 , 203 , 301 , 302 , 340 , 399 , 401 , 402 , and ISS 125 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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Naval Science

REQUIREMENT	HOURS	DESCRIPTION
18 hrs from selected courses	18	Complete 18 hrs chosen from the following courses: NSC 211 , 212 , 213 , 215 , 216 , 310 , 312 , 313 , 315 , 316 , 317 , 318 , 320 , 410 , 412 , 413 , 415 , 416 , 417 , or NSC 418 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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Pre-Med Studies

REQUIREMENT	HOURS	DESCRIPTION
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 221	3	Complete Chem 221 with a passing grade.
Chem 225	1	Complete Chem 225 with a passing grade.
Chem 222	3	Complete Chem 222 with a passing grade.



REQUIREMENT	HOURS	DESCRIPTION
Chem 226	1	Complete Chem 226 with a passing grade.
2 hrs Chem/Bisc @ 300+	2	Complete 2 hrs of Chem or Bisc at the 300+ level with a passing grade.
Psy 201	3	Complete Psy 201 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
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Standard Option

REQUIREMENT	HOURS	DESCRIPTION
18 hrs approved by Dir of Gen Engr	18	The 18 hours of emphasis courses must be organized around a coherent theme and must be pre-approved by the director of general engineering.
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Intelligent Security Studies

REQUIREMENT	HOURS	DESCRIPTION
ISS 125 B min (BS ENGR (iss))	3	Complete ISS 125 with a grade of B or better.
ISS 351 B min (BS ENGR (iss))	3	Complete ISS 351 with a grade of B or better.
ISS 352 B min (BS ENGR (iss))	3	Complete ISS 352 with a grade of B or better.
ISS 490 B min (BS ENGR (iss))	3	Complete ISS 490 with a grade of B or better.
ISS 499 B min (BS ENGR (iss))	3	Complete ISS 499 with a grade of B or better.
3 hrs elect - B min (BS ENGR (iss))	3	Complete 3 hrs of electives with a grade of B or better chosen from: ISS 301 , 360 , 420 , & ISS 480 .
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Global Security Studies

REQUIREMENT	HOURS	DESCRIPTION
ISS 135 C- min (BS ENGR (gss))	3	Complete ISS 135 with a grade of C- or better.
ISS 301 C- min (BS ENGR (gss))	3	Complete ISS 301 with a grade of C- or better.



REQUIREMENT	HOURS	DESCRIPTION
ISS 351 C- min (BS ENGR (gss))	3	Complete ISS 351 with a grade of C- or better.
9 hrs elect C- min (BS ENGR (gss))	9	Complete 9 hrs of electives with a grade of C- or better chosen from the following: ISS 125 , 360 , 420 , 480 , 490 , & Pol 335 .
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).
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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

Emphasis - Aerospace Engineering

REQUIREMENT	HOURS	DESCRIPTION
Phys 308	3	Complete Phys 308 with a passing grade.
9 hrs ae electives (BS Engr (ae))	9	Complete 9 hrs of electives with a passing grade chosen from the following: CSci 111 , 112 , 325 , 356 ISS 125 , EI E 235 , 236 , Phys 310 , C E 310 , and M E 527 .
6 hrs general electives	6	Complete 6 hrs of electives of your choice.
Ch E 316	3	Complete Ch E 316 with a passing grade. This course is meant to share with Engineering electives.
M E 401	3	Complete M E 401 with a passing grade. This course is intended to share with Engineering Electives.
M E 402	3	Complete M E 402 with a passing grade. This course is intended to share with Engineering electives.
M E 529	3	Complete M E 529 with a passing grade. This course is intended to share with Engineering Electives.
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 (Liba 203 , Liba 313), political science (Pol), psychology (Psy), sociology (Soc), and either Hon 101 or Hon 102 (if not being used to fulfill composition requirements).

Emphasis - Entrepreneurship

REQUIREMENT	HOURS	DESCRIPTION
Accy 201 (BS Engr (entr))	3	Complete Accy 201 with a passing grade.
Accy 202 (BS Engr (entr))	3	Complete Accy 202 with a passing grade.
12 hrs elect (BS Engr (entr))	12	Complete 4 courses chosen from the following; ENT 321 , 331 , 351 , 352 , 356 , 381 , 382 , 386 , 387 , 388 , 396 , 411 , 412 , 422 , 426 , 436 , 446 , 456 , 466 , 476 , 486 , GB 350 , 370 . Any other ENT prefix course will count for the emphasis as well as approved BUS 380 & BUS 400 courses (study abroad and internships) at management department discretion.
Econ 202	3	Complete Econ 202 with a passing grade.
Econ 203	3	Complete Econ 203 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 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 , EI E 235 , EI E 331 , G E 305 , G E 405 , M E 324 , M E 325 , M E 401 , M E 406 , and M E 421

