

B.S. in Chemistry

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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 Chemistry

General Education

| REQUIREMENT | HOURS | DESCRIPTION |
|------------------------------------|-------|---|
| First Year Writing I | 3 | Complete Hon 101 , Writ 100 or Writ 101 with a passing grade. |
| First Year Writing II | 3 | Complete one of the following courses with a passing grade: Liba 102 , Writ 102 or Hon 102 . |
| 3 hrs fine arts | 3 | Complete 3 hours in the area of fine or performing arts. Choose from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Acceptable freshman or sophomore-level courses are: AH 101 , AH 102 , AH 201 , AH 202 ; Music 101, Music 102, Music 103, Music 104, Music 105; Dance 200; Theatre 201 and 202 |
| 6 hrs literature survey | 6 | Complete 6 hours of literature survey with a passing grade. Choose from the following courses: Eng 220 , 221 , 222 , 223 , 224 , 225 , or Eng 226 . |
| 6 hrs modern/ancient language 200+ | 6 | Successfully complete at least 6 hours at the 200 level or above in one modern or ancient language. |
| 6 hrs social science | 6 | Successfully complete 6 semester hours in anthropology, economics, political science, psychology, or sociology. |
| 6 hrs social science/humanities | 6 | Complete 6 hours of additional social science or humanities coursework. The courses may be chosen from African American studies, anthropology, classical civilization, economics, gender studies, history, Liba 202 , philosophy, political science, psychology, religious studies, Rhet 201 , sociology, and Southern studies. |
| 6 hrs science | 6 | Successfully complete 2 courses of laboratory science. |
| 2 science labs | 8 | Successfully complete at least two science laboratory courses. |

General Education II

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------------|-------|---|
| Related subjects residence | 6 | Students must complete at least 6 of the required 18 hours of related subject course work in residence. |
| Related subjects residence GPA | | Student must achieve a GPA of 2.00 in resident hours in related subjects. |
| Related subjects | 18 | Complete at least 18 credit hours in the following areas: math or physics. |
| Related subject GPA | | Student must achieve a GPA of 2.00 overall in the related subjects. |

Major Requirements

| REQUIREMENT | HOURS | DESCRIPTION |
|--|-------|--|
| Chem 105 and 115 | 3 | Chem 105: General Chemistry I |
| Chem 106 and 116 | 3 | Chem 106: General Chemistry II |
| Chem 105 and 115 | 1 | Chem 115: General Chemistry Laboratory I |
| Chem 106 and 116 | 1 | Chem 116: General Chemistry Laboratory II |
| Chem 221 and 225 | 4 | Chem 221: Elementary Organic Chemistry I , Chem 225: Elementary Organic Chem. Laboratory I |
| Chem 222 and 226 | 4 | Chem 222: Elementary Organic Chemistry II , Chem 226: Elementary Organic Chem. Laboratory II |
| Chem 314 | 4 | Chem 314: Quantitative Analysis |
| Chem 331 and 337 | 3 | Chem 331: Physical Chemistry I |
| Chem 332 | 3 | Chem 332: Physical Chemistry II |
| Chem 331 and 337 | 1 | Chem 337: Physical Chemistry Laboratory I |
| Chem 401 and 402 | 4 | Chem 401: Inorganic Chemistry , Chem 402: Inorganic Chemistry Laboratory |



| REQUIREMENT | HOURS | DESCRIPTION |
|--|-------|--|
| Chem 463 (two semesters) | 4 | Chem 463: Senior Research and Discovery |
| Chem 469 | 4 | Chem 469: Introduction to Instrumental Analysis |
| Chem 471 | 3 | Chem 471: Biochemistry I |
| Enroll in an emphasis | | Enroll in either the standard option or the optional biochemistry emphasis. |
| Chemistry residency hrs | 18 | Students must earn at least 18 hours of their major courses in residence. The following courses may not be used for major or minor credit: Chem 101 , Chem 102 , Chem 103 , Chem 104 , Chem 113 , Chem 114 , Chem 121 , Chem 201 , Chem 202 , Chem 271 , Chem 381 , Chem 382 , or Chem 383 . |
| Overall Major GPA | | Please contact your academic advisor for grade point requirements. |
| Resident Major GPA | | Please contact your academic advisor for grade point requirements. |

Major Requirements 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 , 319 , or 375 | 3 | Complete Math 353 , Math 319 , or Math 375 . |
| 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 - Biochemistry

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|--|
| Chem 472 | 1 | Complete Chem 472 with a passing grade. |
| Chem 473 | 3 | Complete Chem 473 with a passing grade. |
| 1 advanced course | 3 | Complete an advanced chemistry course chosen from the following: Chem 580 , 581 , Bisc 333 , 336 . |

Standard Option

| REQUIREMENT | HOURS | DESCRIPTION |
|------------------------------|-------|--|
| Chem 423 | 2 | Complete Chem 423 with a passing grade. |
| 2 advanced chemistry courses | 6 | Complete 2 advanced chemistry courses chosen from the following: CHEM 473 , 512 , 514 , 519 , 527 , 528 , 529 , 530 , 531 , 532 , 534 , 536 , 544 , 563 , or 593 . |

Emphasis - Chemical Physics

| REQUIREMENT | HOURS | DESCRIPTION |
|------------------------------|-------|---|
| 2 advanced chemistry courses | 6 | Complete 2 advanced chemistry courses chosen from the following: Chem 531 , 532 , 536 , 544 or Chem 563 . |
| 1 advanced course | 3 | Complete 1 advanced course chosen from the following: Phys 303 , 308 , 315 , 317 , 319 , 321 , 401 , 422 , Chem 593 or Astr 325 . |

Emphasis - Environmental Chemistry

| REQUIREMENT | HOURS | DESCRIPTION |
|--------------------------|-------|---|
| Chem 512 | 3 | Successfully complete Chem 512 . |
| 1 advanced course | 4 | Complete 1 advanced course chosen from the following: Chem 554 , Chem 593 , Bisc 322 , 451 , Engr 540 , G E 503 or Phcl 347 . |

