

Standard Option

- B.S. in Chemistry
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- **Degree Requirements**

B.S. in Chemistry Description

The B.S. in chemistry provides a rigorous foundation in the principal areas of basic chemistry. This program is designed for students who intend to pursue advanced studies leading to the M.S. or Ph.D. degrees in the chemical or biochemical sciences, or who wish to obtain employment as entry-level professional chemists in industrial or government laboratories. Students who intend to seek admission to combined M.D.-Ph.D. programs are advised to consider this degree program.

To enroll in the B.S. in chemistry, students must have successfully completed Chem 105, or meet the prerequisites for Chem 105.

Minimum Total Credit Hours: 120 **General Education Requirements**

See the 'General Education/Core Curriculum' for the College of Liberal Arts.

Course Requirements

A major in chemistry for the B.S. degree consists of the following 50 hours of chemistry courses: Chem 105, 106, 115, 116; 221, 222, 225, 226; 314; 331, 332, 337; 401, 402; 423, 469, 471, two semesters of 463 (for a total of 4 hours), and two advanced courses chosen from 512, 514, 519, 527, 528, 529, 530, 531, 532, 534, 536, 544, 563, or 593.

Also required are Phys 211, 212, 221, 222; Math 261, 262, 263, 264 as well as one course chosen from Math 319, 353, or 375. Students seeking the B.S. degree in chemistry who have already completed Phys 213/214 instead of Phys 211/212 must complete one calculus-based physics course chosen from Phys 303, 315, 319, or 321.

The following courses may not be used for major credit: Chem 101, 103, 104, 113, 114, 121, 201, 202, 271, 293, 381, 382, 383, or 393.

Standard Option 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 <u>Hon 101</u> , <u>Writ 100</u> or <u>Writ 101</u> 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	The course may be 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. Students who have completed 30 semester hours of undergraduate course work may fulfill the requirement with a 300- or 400-level art history course.			
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, <u>Liba 202</u> , philosophy, political science, psychology, religious studies, <u>Rhet 201</u> ,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 acheive 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.	

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.





REQUIREMENT	HOURS	DESCRIPTION
Related subject GPA		Student must achieve a GPA of 2.00 overall in the related subjects.

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REQUIREMENT	HOURS	DESCRIPTION			
<u>Chem 105</u> and <u>115</u>	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			
<u>Chem 221</u> and <u>225</u>	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			
<u>Chem 314</u>	4	Chem 314: Quantitative Analysis			
<u>Chem 331</u> and <u>337</u>	3	Chem 331: Physical Chemistry I			
<u>Chem 332</u>	3	Chem 332: Physical Chemistry II			
<u>Chem 331</u> and <u>337</u>	1	Chem 337: Physical Chemistry Laboratory I			
<u>Chem 401</u> and <u>402</u>	4	Chem 401: Inorganic Chemistry, Chem 402: Inorganic Chemistry Laboratory			
Chem 463 (two semesters)	4	Chem 463: Senior Research and Discovery			
<u>Chem 469</u>	4	Chem 469: Introduction to Instrumental Analysis			
<u>Chem 471</u>	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.

Standard Option

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

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