MATHEMATICS (BS)

Description

The Department of Mathematics offers a B.S. in mathematics for students who wish to pursue graduate training in mathematics or to undertake careers in mathematically oriented professions. The B.S. degree allows the freedom to pursue mathematical depth in areas such as pure mathematics, applied mathematics, statistics, discrete mathematics, mathematics and computer science, or finance and actuarial science.

Minimum Total Credit Hours: 120

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.

General Education

Code	Title	Hours
Select one of the following First Year Writing I courses:		3
WRIT 1000	Introduction to College Writing	
or WRIT 1011	First-Year Writing I	
Select one of the following First Year Writing II courses:		3
WRIT 1020	First-Year Writing II	
or LIBA 1020	First Year Seminar	
Select six hours of literature survey from the following:		6
ENGL 2220	Survey in Literary History	
ENGL 2221	Survey of World Literature to 1650	
ENGL 2222	Survey of World Literature since 1650	
ENGL 2223	Survey of American Lit to the Civil War	
ENGL 2224	Survey of American Lit since Civil War	
ENGL 2225	Survey of British Lit to 18th Century	
ENGL 2226	Survey of Brit Lit since Romantic Period	
Select 12 hours of Soc Sciences and Humanities from the following: [1]		12
African American Studies		
American Sign Language		
Classical Civilization		
ENVS 1010	Humanities and the Environment	
Gender Studies		
Greek		
History		
LIBA 2020	Interdisciplinary Humanities	
LIBA 2030	Interdisciplinary Social Sciences	
LIBA 3050	Humanities and the Experience of War	
LIBA 3120	Advanced Interdisciplinary Humanities	
LIBA 3130	Advanced Interdisc Social Science	
Philosophy		
Political Science		
Psychology		
Religious Studies		
Any Speech, Rhetoric, or Writing course at the 2000 level or higher		
Sociology		
Southern Studies		
Any of the languages offered by the Dept. of Modern Languages		
Select three hours of Fine Arts courses from the following:		3
any Art History (ARTH) course		
DANC 2000	Dance Appreciation	
MUSC 1010	Introduction to Music Literature	
MUSC 1020	Fundamentals of Music Theory	
MUSC 1030	Introduction to Music	
MUSC 1040	Introduction to World Music Cultures	
MUSC 1050	Music Theory and Analysis I	
THEA 2010	Appreciation of the Theatre	
THEA 2020	Introduction to Cinema	
LIBA 1300	Introduction to the Fine Arts	
LIBA 2040	Interdisciplinary Arts	
LIBA 3140	Advanced Interdisciplinary Arts	
Select 6-8 hours of natural science [2]		6-8
any Math course at the 1000 level or above [3]		3
Related Subjects - see footnote [4]		18
Total Hours		**54-56**

1. At least six hours must be chosen from among the social sciences, which consist of anthropology, economics, political science, psychology, and sociology.
2. Majors for the B.S. degree must have 2 courses of laboratory science.
3. Any MATH course at the 1000 level or above except for MATH 2451 and 2452
4. 18 hours required; choose from courses listed beside the major.
   Anthropology - biology, computer science, English, economics, chemistry, geology, history, mathematics, philosophy, political science, psychology, sociology
   Biology - anthropology, chemistry, CLSC 2010 Medical Terminology in Greek and Latin, geology, mathematics, physics, psychology
   Chemistry - mathematics, physics
   Economics - math (may include MATH 2611 Unified Calculus & Analytic Geometry I, MATH 2612 Unified Calculus & Analytic Geometry II, and MATH 3750 Introduction to Statistics I, but not MATH 2511 Calculus for Business, Econ., & Accy. I, MATH 2512 Calculus for Business, Econ., & Accy. II), finance, political science, computer science
   Forensic Chemistry - biology, mathematics, pharmacology, physics; up to 6 hours of pharmacology courses
   Mathematics - astronomy, biology, chemistry, computer science, economics, geology, physics
   Physics - mathematics
   Political Science - computer science, economics, mathematics, sociology, psychology
   Psychology - biology, computer science, economics, mathematics, philosophy, sociology

Sociology - anthropology, computer science, English, economics, history, mathematics, philosophy, political science, psychology

General Education II

- Related Subjects Residence
  - 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
  - Complete at least 18 credit hours in the following areas: astronomy, biology, chemistry, computer science, economics, geology, or physics.
- Related Subject GPA
  - Student must achieve a GPA of 2.00 overall in the related subjects.

Major Requirements

Code	Title	Hours
Select a computer programming course from the following:		3
CSCI 1011	Computer Science I	
CSCI 1051	Programming for Engineering and Sciences	
CSCI 1056	Programming in Python	
CSCI 1059	Programming in C++	
MATH 2611	Unified Calculus & Analytic Geometry I	3
or MATH 2711	Calculus of Decision Making I	
MATH 2612	Unified Calculus & Analytic Geometry II	3
MATH 2613	Unified Calculus & Analytic Geometry III	3
MATH 2614	Unified Calculus & Analytic Geometry IV	3
MATH 3050	Foundations of Mathematics	3
MATH 3190	Introduction to Linear Algebra	3
MATH 5251	Introduction to Abstract Algebra I	3
MATH 5051	Advanced Calculus I	3
Select a two-course in-depth sequence chosen from:		
MATH 5051 & MATH 5052	Advanced Calculus I and Advanced Calculus II	
MATH 5251 & MATH 5252	Introduction to Abstract Algebra I and Introduction to Abstract Algebra II	
MATH 3010 & MATH 4010	Discrete Mathematics and Combinatorics	
MATH 3530 & MATH 4540	Elementary Differential Equations and Intermediate Differential Equations	
MATH 3750 & MATH 4750	Introduction to Statistics I and Introduction to Statistics II	
Complete additional hours at the 3000+ level to reach the total of 42 credit hours of mathematics courses		

42 Total Hours of Math

The same mathematics course may satisfy more than one category, but students must still complete the total hours for the major.

Math Residency Hrs

Students must earn at least 18 hours of their major courses in residence. Grades lower than a C in any Math course will not be counted towards the mathematics major for the BS degree.

Overall Major GPA

Please contact your academic advisor for grade point requirements.

Resident Major GPA

Please contact your academic advisor for grade point requirements.

Other Academic Requirements

Grades lower than C in mathematics courses will not be counted toward the mathematics major for the B.S. degree.