

Fall 2020 through Summer 2021	<b>B.S. in Mathematics</b>	<b>MINIMUM TOTAL CREDIT HOURS 120</b>
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GENERAL EDUCATION REQUIREMENTS (39-41 hours)	MAJOR REQUIREMENTS (45 hours)	RELATED AREAS
<b>First Year Writing I (3 hours)</b>	<p><b>Students complete 14 math courses and 1 computer science course. A minimum grade of C is required in all courses that apply to the major.</b></p> <p><b>Core Courses (24 hours)</b>            Math 261 or 271. Unified Calculus &amp; Analytic Geometry I or Calculus of Decision Making (3 hours)            Math 262. Unified Calculus &amp; Analytic Geometry II (3 hours)            Math 263. Unified Calculus &amp; Analytic Geometry III (3 hours)            Math 264. Unified Calculus &amp; Analytic Geometry IV (3 hours)            Math 305. Foundations of Mathematics (3 hours)            Math 319. Introduction to Linear Algebra (3 hours)            Math 555. Advanced Calculus I (3 hours)            Math 525. Modern Algebra I (3 hours)</p> <p><b>Select a two-course sequence (6 hours) chosen from:</b>            Math 555/556. Advanced Calculus I and II (6 hours)            Math 525/526. Modern Algebra I and II (6 hours)            Math 301/401. Discrete Math/Combinatorics (6 hours)            Math 353/454. Elementary/Intermediate Differential Equations (6 hours)            Math 375/475. Intro to Statistical Methods/Intro to Mathematical Statistics (6 hours)</p> <p>Math elective courses at the 300 level or above to reach the total of 42 credit hours of math courses. The same math course may satisfy more than one category, but students must still complete the total hours for the major.</p> <p>One computer programming course (3 hours) from:            Csci 111. Computer Science I            Csci 251. Programming for Engineering &amp; Sciences            Csci 256. Programming in Python            Csci 259. Programming in C++</p>	<p>Students are required to complete 18 hours of related subjects. The acceptable related subjects for mathematics are:</p> <ul style="list-style-type: none"> <li>• astronomy,</li> <li>• biology,</li> <li>• chemistry,</li> <li>• computer science,</li> <li>• physics,</li> <li>• geology, and</li> <li>• economics.</li> </ul> <p>The required computer science courses for the major may fulfill this requirement. Transfer students must take at least six of these hours in residence. Related subjects courses can be counted as hours toward an optional minor.</p>
Hon 101, Writ 100 or Writ 101		
<b>First Year Writing II (3 hours)</b>		
Hon 102, Liba 102, Writ 102		
<b>English Literature Survey (6 hours)</b>		
Eng 220, 221, 222, 223, 224, 225, 226, 22X		
<b>Modern or Ancient language (6 – 12 hours)</b>		
6 hours at the 200-level or higher in a single language		
<b>Fine or Performing Arts (3 hours)</b>		
Any Art History; Mus 101, 102, 103, 104, 105; Thea 201, 202; Danc 200; Liba 130, 204, 314		
<b>Social Sciences &amp; Humanities (12 hours)</b>	<p style="text-align: center;"><b>OPTIONAL MINOR</b></p>	<p>Students pursuing the B.S. degree are allowed to complete a minor course of study. Required hours completed in the related subjects can be counted as hours toward a minor.</p>
<p>The courses may be chosen from African American studies, anthropology, classical civilization, economics, gender studies, history, Liba 202, 312, philosophy, political science, psychology, religious studies, sociology, and Southern studies. At least 6 hours must be chosen from among the social sciences, which consists of anthropology, economics, Liba 203, 305, 313, political science, psychology, and sociology.</p>		
<b>Laboratory Science (6-8 hours)</b>	<p style="text-align: center;"><b>ELECTIVES</b></p>	<p>Electives to bring the total minimum number of hours to 120.</p> <p>At least 40 hours of coursework in the general education, major, minor, and elective hours must be at the 300-level or above.</p>
Any Astronomy, Biology; Chemistry (not Chem 101); Geology; Liba 150, 151, 205, 205L, 315, 315L; or Physics		

SAMPLE DEGREE MAP  
BACHELOR OF SCIENCE IN MATHEMATICS

YEAR	FALL SEMESTER	HOURS	SPRING SEMESTER	HOURS
<b>FRESHMAN</b>	First Year Writing I	3	First Year Writing II	3
	Computer Science	3	Eng 22? Literature Survey	3
	Humanities	3	Social Science	3
	Math 261. Calculus I	3	Math 262. Calculus II	3
	Elective	3	Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>SOPHOMORE</b>	Modern Language (100-level)	6	Modern Language (200-level)	6
	Eng 22? Literature Survey	3	Math 264. Calculus IV	3
	Math 263. Calculus III	3	Related Subject (300-level or higher)	3
	Science Lab	4	Science Lab	4
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>JUNIOR</b>	Math 305. Foundations of Mathematics	3	Related Subject (300-level or higher)	4
	Math 319. Intro to Linear Algebra	3	Math Elective (300-level or higher)	3
	Math Two-Course Sequence I	3	Math Two-Course Sequence II	3
	Humanities	3	Fine Arts	3
	Elective (300-level or higher)	3	Elective (300-level or higher)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>
<b>SENIOR</b>	Math 555. Advanced Calculus I	3	Math 525. Modern Algebra I	3
	Math Elective (300-level or higher)	3	Math Elective (300-level or higher)	3
	Math Elective (300-level or higher)	3	Social Science	3
	Elective	3	Elective	2
	Elective	1	Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>13</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

**INFORMATION CONCERNING COLLEGE OF LIBERAL ARTS REQUIREMENTS:**

- An overall 2.0 GPA or higher is required on all coursework applied toward the major and minor. In some majors and minors, a minimum grade of C is required for each course.
- Double majors may not count courses toward both majors. The same course may not count towards a major and minor field of study.
- General education courses may also satisfy requirements towards a major or minor.
- Each senior must apply for a degree by returning a completed Degree Application Form to the College of Liberal Arts Student Services Office in the semester preceding the semester in which the student expects to graduate.
- Refer to the College of Liberal Arts Academics and Admissions section in the catalog for all College rules associated with the B.S. degree, such as residency requirements for majors and minors.

**INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS**

- An overall 2.0 GPA or higher is required on all work attempted at UM, all college work attempted at any institution of higher learning (UM and transfer work), and all coursework submitted toward the degree.
- At least 25% of the hours required for an undergraduate degree must be taken in residence, with at least 15 of the last 21 credit hours completed at UM.
- At least one-third of the hours applied toward a degree must be at the 300-, 400-, or 500-level. For example, a student qualifying for a degree with 120 semester hours must show at least 40 hours of work at the 300 level or above.
- In addition, at least 30 semester hours of residence credit must be taken in the school or college recommending the degree.
- The limit on the acceptance of credit from a junior or community college is one-half the total requirements for a degree.

**Refer to the Undergraduate Academic Regulations section in the catalog for all university degree requirements.**