

# STEM MATHEMATICS (A.S.) - RESIDENT

**Important:** This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations, or cognates.

## General Education/Foundational Skills Requirements

Code	Title	Hours
<b>Communication &amp; Information Literacy</b> <sup>1</sup>		
ENGL 101	Composition and Rhetoric	3
	Communications Elective	3
	Information Literacy Elective	3
<b>Technological Solutions &amp; Quantitative Reasoning</b> <sup>1</sup>		
UNIV 101	Foundational Skills	1
	Math Elective MATH 114 or higher	3
	Technology Competency <sup>2</sup>	0-3
<b>Critical Thinking</b> <sup>1</sup>		
RLGN 105	Introduction to Biblical Worldview <sup>3</sup>	2
	Critical Thinking Elective	3
<b>Civic &amp; Global Engagement</b> <sup>1</sup>		
EVAN 101	Evangelism and the Christian Life <sup>3</sup>	2
	Cultural Studies Elective	3
<b>Social &amp; Scientific Inquiry</b> <sup>1</sup>		
	Natural Science Elective	3
	Social Science Elective	3
<b>Christianity &amp; Contexts</b> <sup>1</sup>		
BIBL 105	Old Testament Survey	2
BIBL 110	New Testament Survey	2
THEO 201	Theology Survey I <sup>3</sup>	2
THEO 202	Theology Survey II <sup>3</sup>	2
<b>Total Hours</b>		<b>37-40</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skill requirements

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course

<sup>3</sup> Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 & EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 & THEO 202 waived

## Major Requirements

Code	Title	Hours
<b>Major Foundational Courses</b>		
CSIS 110	Introduction to Computer Science <sup>1</sup>	3
<b>Total Hours</b>		<b>3</b>

<sup>1</sup> Course may fulfill select general education requirements.

Code	Title	Hours
<b>Major Core</b>		
MATH 131	Calculus and Analytic Geometry I	4
MATH 132	Calculus and Analytic Geometry II	4
MATH 211	Introduction to Statistical Analysis	3
MATH 250	Introduction to Discrete Mathematics	3
STEM Elective <sup>1</sup>		3
STEM Elective <sup>1</sup>		3
STEM Elective <sup>1</sup>		3
<b>Total Hours</b>		<b>23</b>

<sup>1</sup> Choose a course not already required in in the Major from the following: any CSIS, ENGR, ENVR, or PHSC course, or any 200-400 level PHYS, MATH, or STEM course. A minimum of 9 hours total is required.

*All applicable prerequisites must be met*

## Graduation Requirements

- **60** Total hours
- **2.0** Overall grade point average
- **Grade of 'C'** Minimum required for all upper-level courses in the major
- **25%** of major taken through Liberty University
- **15 Hours** must be completed through Liberty University
- **Grad App** Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date
- **CSER** All Requirements must be satisfied before a degree will be awarded

## Course Sequence

Course	Title	Hours
<b>First Year</b>		
<b>First Semester</b>		
BIBL 105	Old Testament Survey	2
ENGL 101	Composition and Rhetoric	3
EVAN 101	Evangelism and the Christian Life	2
UNIV 101	Foundational Skills	1
	Information Literacy Elective (CSIS 110) <sup>1</sup>	3
	Math Elective <sup>1</sup>	3
	Technology Competency <sup>2</sup>	0-3
	CSER	0
<b>Hours</b>		<b>14-17</b>

### Second Semester

BIBL 110	New Testament Survey	2
RLGN 105	Introduction to Biblical Worldview	2
	Communications Elective <sup>1</sup>	3
MATH 131	Calculus and Analytic Geometry I	4
	STEM Elective <sup>3</sup>	3
	CSER	0
<b>Hours</b>		<b>14</b>

### Second Year

#### First Semester

THEO 201	Theology Survey I	2
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Course	Title	Hours
Cultural Studies Elective <sup>1</sup>		3
MATH 132	Calculus and Analytic Geometry II	4
MATH 211	Introduction to Statistical Analysis	3
STEM Elective <sup>3</sup>		3
CSER		0
<b>Hours</b>		<b>15</b>
<b>Second Semester</b>		
THEO 202	Theology Survey II	2
Critical Thinking Elective <sup>1</sup>		3
Natural Science Elective <sup>1</sup>		3
Social Science Elective <sup>1</sup>		3
MATH 250	Introduction to Discrete Mathematics	3
STEM Elective <sup>3</sup>		3
CSER		0
<b>Hours</b>		<b>17</b>
<b>Total Hours</b>		<b>60-63</b>

<sup>1</sup> Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling foundational skills requirements.

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course; refer to [www.liberty.edu/computerassessment](http://www.liberty.edu/computerassessment) for more information.

<sup>3</sup> Choose a course not already required in the Major from the following: any CSIS, ENGR, ENVR, PHSC course, and any 200-400 level PHYS, MATH, or STEM course. A minimum of 9 hours total is required.