

# **Bachelor of Science in Applied Mathematics and Statistics**

Actuarial Cognate

2021-2022 Degree Completion Plan

**Important:** This degree plan is effective for those starting this degree program in fall 2021 through summer 2022. 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 (44-47 hours)									
Course		Hrs	Sem	Grade	Course		<u>Hrs</u>	Sem	Grade
Communica	tion & Information Literacy (13 hou	$(rs)^1$			Major Foun	dational Courses (0-17 hours)			
ENGL 101	Composition & Rhetoric	3			CSIS 110	Introduction to Computer Sciences <sup>4</sup>	3		
INQR 101	Inquiry 101	1			CSIS 111	Introduction to Programming <sup>4</sup>	3		
	Communications Elective	3			ENGR 270	Technical Communication <sup>4</sup>	3		
	Information Literacy Elective	3			MATH 131	Calculus & Analytic Geometry I4	4		
	Information Literacy Elective	3			PHYS 231	University Physics I <sup>4</sup>	4		
Technologic	al Solutions & Quantitative Reasoni	ng (4-7	hours)	)1	<b>MAJOR</b>				
UNIV 101	Foundational Skills	1				Core (41 hours)			
MATH	Math Elective (MATH 114 or higher)	3			MATH 132	Calculus & Analytic Geometry II	4		
	Technology Competency <sup>2</sup>	0-3			MATH 133	Calculus with Mathematica Lab	1		
					MATH 200	Introduction to Mathematical Reasoning	3		
Critical Thinking (8 hours) <sup>1</sup>					MATH 221	Applied Linear Algebra	3		
RLGN 105	Intr Bwvw/Contemp Moral Issues <sup>3</sup>	2			MATH 231	Calculus & Analytic Geometry III	4		
RSCH 201	Research 201	3			MATH 311	Probability & Statistics I	3		
	Critical Thinking Elective	3			MATH 321	Linear Algebra	3		
					MATH 302	Intro. to Experimental Design in Statistics	3		
Civic & Global Engagement (5 hours) <sup>1</sup>					MATH 352	Numerical Analysis	3		
EVAN 101	Evangelism & Christian Life <sup>3</sup>	2			MATH 402	Linear Regression	3		
	Cultural Studies Elective	3			MATH 411	Probability & Statistics II	3		
				· <u> </u>	MATH 450	Mathematics Capstone Seminar	2		
Social & Scientific Inquiry (6 hours) <sup>1</sup>			MATH	Math Elective <sup>5</sup>	3				
	Natural Science Elective	3			MATH	Math Elective <sup>6</sup>	3		
	Social Science Elective	3		· <u></u> -					
						Cognate (15 hours)			
Christianity	& Contexts (8 hours) <sup>1</sup>				ACCT 211	Financial Accounting	3		
BIBL 105	Old Testament Survey	2			ACCT 212	Managerial Accounting	3		
BIBL 110	New Testament Survey	2			BUSI 320	Corporate Finance	3		
THEO 201	Theology Survey I <sup>3</sup>	2			ECON 213	Principles of Microeconomics	3		
THEO 202	Theology Survey II <sup>3</sup>	2			ECON 214	Principles of Macroeconomics	3		
						1			
					FREE ELECTIVES (0-20 hours) <sup>7</sup>				
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### **Graduation Requirements**

120 Total Hours

2.0 Overall grade point average

30 Hours must be upper-level courses (300-400 level)

Grade of 'C' Minimum required for all upper-level courses in the major

25% Of major taken through Liberty University

30 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

#### Notes

All applicable prerequisites must be met

Refer to the list of approved general education electives at <a href="www.liberty.edu/gened">www.liberty.edu/gened</a> before enrolling in foundational skills requirements

<sup>2</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to <a href="https://www.liberty.edu/computerassessment">www.liberty.edu/computerassessment</a> for more information

<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 and THEO 202 waived

<sup>4</sup>Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at <a href="www.liberty.edu/gened">www.liberty.edu/gened</a>

<sup>5</sup>Choose from the following courses: MATH 421 or 431

<sup>6</sup>Choose from the following courses: MATH 301, 304, 334, or 350

May need 4 hours of upper-level electives

Suggested Course Sequence on second page

Revised: 02.01.2021 Effective: Catalog Term 2021-40

# SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

First Semester		Second Semester										
BIBL 105	2	BIBL 110	2									
ENGL 101	3	INQR 101	1									
RLGN 105	2	Communications Elect. <sup>1</sup> [ENGR 270]	3									
UNIV 101	1	Info Literacy Elective <sup>1</sup> [CSIS 110]	3									
MATH Elective <sup>1</sup> [MATH 131]	4	Natural Science Elective <sup>1</sup> [PHYS 231]	4									
Technology Competency <sup>2</sup>	0-3	MATH 132	4									
MATH 133	1	CSER	0									
CSER	<u>0</u>	Total	17									
Tota	1 13-16											
SOPHOMORE YEAR												
EVAN 101	2	THEO 201	2									
RSCH 201	3	ACCT 212	3									
ACCT 211	3	MATH 200	3									
MATH 231	4	MATH 221	3									
MATH Elective <sup>3</sup>	3	MATH 311	3									
CSER	<u>0</u>	CSER	0									
Tota	1 15	Total	14									
JUNIOR YEAR												
THEO 202	2	Cultural Studies Elective <sup>1</sup>	3									
Critical Thinking Elective <sup>1</sup>	3	Social Science Elective <sup>1</sup>	3									
Info Literacy Elective <sup>1</sup> [CSIS 111]	3	ECON 214	3									
ECON 213	3	MATH 321	3									
MATH 302	3	MATH 402	3									
MATH 411	3	CSER	0									
CSER	<u>0</u>	Total	15									
Tota	1 17											
SENIOR YEAR												
BUSI 320	3	MATH 450	2									
MATH 352	3	Elective	3									
MATH Elective <sup>4</sup>	3	Elective	3									
Elective <sup>5</sup>	3	Elective	3									
Elective <sup>5</sup>	3	Elective	3									
CSER	<u>0</u>	CSER	0									
Tota	1 15	Total	14									

## Notes

All applicable prerequisites must be met

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<sup>&</sup>lt;sup>1</sup>Refer to the list of approved general education electives at <a href="http://www.liberty.edu/gened">www.liberty.edu/gened</a> before enrolling in foundational skills requirements <sup>2</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to <a href="http://www.liberty.edu/computerassessment">www.liberty.edu/computerassessment</a> for more information

<sup>&</sup>lt;sup>3</sup>Choose from MATH 301, 304, 334, or 350

<sup>&</sup>lt;sup>4</sup>Choose from MATH 421 or 431

<sup>&</sup>lt;sup>5</sup>May need 4 hours of upper-level electives