Bachelor of Science in Computational Mathematics
2023-2024 Degree Completion Plan

Important: This degree plan is effective for those starting this degree program in fall 2023 through summer 2024. 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 (39-42 hours)

Course		Hrs	Sem	Grade	Course		Hrs	Sem	Grade
Communication & Information Literacy (12 hours)[1]					**Major Foundational Courses (0-7 hours)**				
ENGL 101	Composition & Rhetoric	3			CSIS 110	Introduction to Computer Science[3]	3		
	Communications Elective	3			MATH 131	Calculus & Analytic Geometry I[3]	4		
	Information Literacy Elective	3							
	Information Literacy Elective	3			**MAJOR**				
						Core (40 hours)			
Technological Solutions & Quantitative Reasoning (3-6 hours)[1]					MATH 132	Calculus & Analytic Geometry II	4		
UNIV 104	Instructional Tech. for Online Learning	0-3			MATH 211	Introduction to Statistical Analysis	3		
MATH ____	Math Elective (MATH 114 or higher)	3			MATH 250	Introduction to Discrete Mathematics	3		
					MATH 345	Intro. to the History of Mathematics	3		
Critical Thinking (7 hours)[1]					MATH 410	Matrix & Linear Algebra	3		
RLGN 104	Christian Life & Biblical Worldview[2]	4			MATH 423	Abstract Algebraic Structures	3		
	Critical Thinking Elective	3			MATH 430	Multivariable Calculus	3		
					MATH 432	Applied Differential Equations	3		
Civic & Global Engagement (3 hours)[1]					MATH 441	Probability I	3		
	Cultural Studies Elective	3			MATH 460	Mathematical Modeling & Simulation	3		
					MATH 491	Computational Mathematics Capstone	3		
Social & Scientific Inquiry (6 hours)[1]					STAT 420	Regression & Forecasting I	3		
	Natural Science Elective	3			_____	_____[4]	_		
	Social Science Elective	3							
					FREE ELECTIVES (31-41 hours)[5]				
Christianity & Contexts (8 hours)[1]					_____	_____	_		
BIBL 104	Survey of Old & New Testament	4			_____	_____	_		
THEO 104	Introduction to Theology Survey[2]	4			_____	_____	_		
					_____	_____	_		

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 major foundational courses and 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

Notes

All applicable prerequisites must be met

[1]Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

[2]Students transferring in 45 or more UG credit hours will have the requirement of RLGN 104 waived; Students transferring in 60 or more UG credit hours will also have the requirement of THEO 104 waived

[3]Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened

[4]Choose any MATH, PHYS, or STAT course not already applying to the degree

[5]May need up to 3 hours of 300-400 level electives to fulfill upper-level requirement; this is dependent upon courses chosen for the Core Elective. Student should contact academic advisor for more information

Suggested Course Sequence on second page

SUGGESTED COURSE SEQUENCE

FIRST YEAR

First Semester		Second Semester	
BIBL 104	4	RLGN 104	4
ENGL 101	3	Critical Thinking Elective[1]	3
UNIV 104	0-3	Information Literacy Elective[1] [CSIS 110]	3
Communications Elective[1]	3	MATH 132	4
Math Elective[1] [MATH 131]	4	MATH 250	3
	Total 14-17		Total 17

SECOND YEAR

Information Literacy Elective[1]	3	THEO 104	4
Natural Science Elective[1]	3	Cultural Studies Elective[1]	3
MATH 211	3	Social Science Elective[1]	3
MATH 430	3	Elective	3
Elective	3	Elective	3
	Total 15		Total 16

THIRD YEAR

MATH 410	3	MATH 345	3
STAT 420	3	MATH 423	3
Elective[3]	3	Core Elective[2]	3
Elective	3	Elective	3
Elective	3	Elective	3
	Total 15		Total 15

FOURTH YEAR

MATH 432	3	MATH 460	3
MATH 441	3	MATH 491	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	1	Elective	3
	Total 13		Total 15

Notes

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[3]May need up to 3 hours of 300-400 level electives to fulfill upper-level requirement; this is dependent upon courses chosen for the Core Elective. Student should contact academic advisor for more information