

Bachelor of Science in Mathematics

Teacher Licensure

2019-2020 Degree Completion Plan

Important: This degree plan is effective for those starting this degree program in fall 2019 through summer 2020. 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/

Communication & Information Literacy (13 hours) FOGI. 101 Composition & Rhetoric 3	FOUNDAT	IONAL SKILLS REQUIREMENTS	(44-47	hours	<u>)</u>					
ENGL 101 Composition & Rhetoric 3	Course		<u>Hrs</u>	Sem	Grade	Course		<u>Hrs</u>	Sem	Grade
RQR 101	Communication & Information Literacy (13 hours) ¹				Major Foundational Courses (7-20 hours)					
Communications Elective 3	ENGL 101	Composition & Rhetoric	3			CSIS 110	Introduction to Computer Sciences ⁴	3		
Information Literacy Elective 3	INQR 101	Inquiry 101	1			CSIS 111	Introduction to Programming ⁴	3		
Information Literacy Elective 3		Communications Elective	3			ENGR 270	Technical Communication ⁴	3		
PSYC 210 Developmental Psychology 3		Information Literacy Elective	3			PHYS 231	University Physics I ⁴	4		
Technological Solutions & Quantitative Reasoning (4-7 hours)		Information Literacy Elective	3			PHYS 232	University Physics II ⁴	4		
UNIV 101						PSYC 210	Developmental Psychology ⁴	3		
MATH	Technologic	cal Solutions & Quantitative Reasonin	ng (4-7	hours)	$)^1$					
Technology Competency2	UNIV 101	University Core Competencies	1			MAJOR				
MATH 132 Calculus & Analytic Geometry II 4	MATH	Math Elective (MATH 114 or higher)	3				Core (41 hours)			
Critical Thinking (8 hours)¹ RLGN 105 Intr Bwww/Contemp Moral Issues³ 2 MATH 200 Introduction to Mathematical Reasoning 3 RSCH 201 Research 201 3 MATH 231 Calculus & Analytic Geometry III 4 Critical Thinking Elective 3 MATH 311 Probability & Statistics I 3 MATH 321 Linear Algebra 3 Linear Algebra 3 MATH 421 Elementary & Abstract Algebra I 3 EVAN 101 Evangelism & Christian Life³ 2 MATH 431 Real Analysis 3 MATH 450 Mathematics Capstone Seminar 1 MATH Math Elective⁵ 3 MATH MATH MATH MATH MATH MATH MATH MATH		Technology Competency ²	0-3			MATH 131	Calculus & Analytic Geometry I	4		
RLGN 105 Intr Bwvw/Contemp Moral Issues³ 2 MATH 200 Introduction to Mathematical Reasoning 3 RSCH 201 Research 201 3 MATH 231 Calculus & Analytic Geometry III 4 Critical Thinking Elective 3 MATH 311 Probability & Statistics I 3 MATH 321 Linear Algebra 3 MATH 321 Linear Algebra I 3 EVAN 101 Evangelism & Christian Life³ 2 MATH 421 Elementary & Abstract Algebra I 3 Cultural Studies Elective 3 MATH 450 Mathematics Capstone Seminar 1 MATH Math Elective⁵ 3 MATH Math Elective⁵ 3 Social & Scientific Inquiry (6 hours)¹ MATH Math Elective⁵ 3 Natural Science Elective 3 MATH Math Elective⁵ 3 Social Science Elective 3 MATH Math Elective³ 3 Social Science Elec						MATH 132	Calculus & Analytic Geometry II	4		
RSCH 201 Research 201 3	Critical Thinking (8 hours) ¹			MATH 133	Calculus with Mathematica Lab	1				
Critical Thinking Elective 3	RLGN 105	Intr Bwvw/Contemp Moral Issues ³	2			MATH 200	Introduction to Mathematical Reasoning	3		
Civic & Global Engagement (5 hours) ¹ EVAN 101 Evangelism & Christian Life ³ Cultural Studies Elective MATH 421 Elementary & Abstract Algebra I MATH 421 Elementary & Abstract Algebra I MATH 421 Elementary & Abstract Algebra I MATH 431 Real Analysis MATH 450 Mathematics Capstone Seminar MATH Math Elective ⁵ MATH Math Elective ^{6,8} Natural Science Elective MATH Math Elective ^{7,8} Social Science Elective MATH Math Elective ⁹ Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey MATH Math Elective ⁹ Theo 201 Theology Survey I ³ MATH Math Elective	RSCH 201	Research 201	3			MATH 231	Calculus & Analytic Geometry III	4		
Civic & Global Engagement (5 hours) ¹ EVAN 101 Evangelism & Christian Life ³ Cultural Studies Elective 3 MATH 421 Elementary & Abstract Algebra I MATH 431 Real Analysis 3 MATH 450 Mathematics Capstone Seminar 1 MATH Math Elective ⁵ 3 MATH Math Elective ^{6,8} Natural Science Elective 3 MATH Math Elective ^{7,8} Social Science Elective 3 MATH Math Elective ⁹ 3 MATH Math Elective ⁹ Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey 2 MBIBL 110 New Testament Survey 2 MTHEO 201 Theology Survey I ³ 2 MATH MATH MATH Elective ⁹ 3 MATH MATH MATH MATH Elective ⁹ 3 MATH MATH MATH MATH MATH MATH MATH MATH		Critical Thinking Elective	3			MATH 311	Probability & Statistics I	3		
EVAN 101 Evangelism & Christian Life³ 2						MATH 321	Linear Algebra	3		
Cultural Studies Elective MATH 450 Mathematics Capstone Seminar MATH Math Elective ⁵ Natural Science Elective Natural Science Elective MATH Math Elective ^{6,8} Natural Science Elective MATH Math Elective ^{7,8} Social Science Elective MATH Math Elective ^{7,8} MATH Math Elective ⁹ Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey BIBL 110 New Testament Survey THEO 201 Theology Survey I ³ MATH Math Elective ⁹ THEO 201 Theology Survey I ³ MATH Math Elective ⁹ THEO 201 Theology Survey I ³ MATH Math Elective ⁹ MATH Math Elective ⁹ THEO 201 Theology Survey I ³	Civic & Global Engagement (5 hours) ¹			MATH 421	Elementary & Abstract Algebra I	3				
Social & Scientific Inquiry (6 hours) ¹ Natural Science Elective Natural Science Elective MATH Math Elective ^{6,8} MATH Math Elective ^{7,8} Social Science Elective MATH Math Elective ^{7,8} MATH Math Elective ^{6,8} MATH Math Elective ^{6,8} MATH Math Elective ^{6,8} MATH Math Elective ^{6,8} MATH Math Elective ^{7,8} MATH Math Elective ^{6,8} MATH Math Elective ^{7,8} MA	EVAN 101	•	2			MATH 431	Real Analysis	3		
Social & Scientific Inquiry (6 hours) ¹ Natural Science Elective MATH Math Elective ^{6,8} Social Science Elective MATH Math Elective ^{7,8} MATH Math Elective ⁹ Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey BIBL 110 New Testament Survey THEO 201 Theology Survey I ³ MATH Math Elective ^{6,8} MATH Math Elective ^{9,8} MATH Math Elective ^{7,8} MATH Math Elective ^{7,8} MATH Math Elective ^{7,8} S THEO 201 Theology Survey I ³ MATH Math Elective ^{6,8} MATH Math Elective ^{7,8} MATH Math Elect		Cultural Studies Elective	3			MATH 450	Mathematics Capstone Seminar	1		
Natural Science Elective 3 MATH Math Elective ^{7,8} 3 3 5 5 Social Science Elective 3 MATH Math Elective ⁹ 3 5 Social Science Elective 4 Math Elective ⁹ 5 Social Science Elective 5 MATH Math Elective ⁹ 5 Social Science Elective 6 MATH Math Elective ⁹ 5 Social Science Elective 7 Social Science Elective 7 Social Science Elective 8 MATH Math Elective ⁹ 5 Social Science Elective 7 Social Science Elective 8 MATH Math Elective ^{7,8} 5 Social Science Elective 9 Social Science Elective						MATH	Math Elective ⁵	3		
Social Science Elective 3 MATH Math Elective 3 Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey 2 BIBL 110 New Testament Survey 2 THEO 201 Theology Survey I ³ 2	Social & Sc	Social & Scientific Inquiry (6 hours) ¹			MATH	Math Elective ^{6,8}	3			
Christianity & Contexts (8 hours) ¹ BIBL 105 Old Testament Survey 2 BIBL 110 New Testament Survey 2 THEO 201 Theology Survey I ³ 2		Natural Science Elective	3			MATH	Math Elective ^{7,8}	3		
BIBL 105 Old Testament Survey 2 BIBL 110 New Testament Survey 2 THEO 201 Theology Survey I³ 2		Social Science Elective	3			MATH	Math Elective ⁹	3		
BIBL 105 Old Testament Survey 2 BIBL 110 New Testament Survey 2 THEO 201 Theology Survey I³ 2	Christianity	& Contexts (8 hours) ¹								
BIBL 110 New Testament Survey 2 THEO 201 Theology Survey I³ 2	•		2							
THEO 201 Theology Survey I ³ 2	BIBL 110	-								
· · ·	THEO 201	•								
	THEO 202	• •								

Graduation Requirements

123 Total Hours

2.0 Overall grade point average

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

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

50% Of major taken through Liberty University

30.75 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

This degree requires Teacher Licensure. See second page for specific course information

All applicable prerequisites must be met

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

²All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information

³Students 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

⁴Major Foundational Courses can also fulfill General Education/Core Competency requirements as applicable

⁵Choose from MATH 305, 332 or 334¹⁰

⁶Choose from MATH 307, 331 or 422

⁷Choose from MATH 301, 302, 350, 352 or 411

8MATH 305, 411, or 422 must be part of the degree program

⁹Choose a 300-400 level MATH course not already applying to the major¹¹

¹⁰A course in Geometry (MATH 305) is required by VA DOE for teacher licensure

¹¹A course in Math History (MATH 400) is required by VA DOE for teacher licensure Suggested Course Sequence on third page

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TEACHER LIC	CENSURE (31 hours) ¹			
Course		<u>Hrs</u>	<u>Sem</u>	Grade
EDUC 125	Introduction to Education	1		
EDUC 221	Content Area Read/Differentiated Teaching and Learning	2		
EDUC 235	Content Instructional Design	1		
EDUC 236	Content Instructional Design Practicum	2		
EDUC 240	Introduction to Applied Educational Technology Practicum	2		
EDUC 360	Foundations of Education	2		
EDUC 425	Content Measurement and Evaluation	3		
EDUC 435	Content Curriculum Fundamentals	2		
EDUC 436	Content Curriculum Fundamentals Practicum	1		
EDUC 475	Seminar in Classroom Management	2		
EDUC 476	Student Teaching I	5		
EDUC 477	Student Teaching II	5		
MATH 419	Teaching Math in Secondary Schools	2		
MATH 420	Teaching Math in Secondary Schools Practicum	1		
¹ Refer to www.libert	y.edu/uguide for licensure information. 3.0 GPA is required for Teacher Licensure			

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SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

First Semester		Second Semester		
BIBL 105	2	BIBL 110		2
ENGL 101	3	RLGN 105		2
INQR 101	1	Information Literacy Elective ¹		3
UNIV 101	1	Technology Competency ²		0-3
Communications Elective ¹ [ENGR 270]	3	EDUC 221		2
MATH Elective ¹	3	MATH 132		4
MATH 131	4	MATH 133		1
EDUC 125	1	CSER		0
CSER	<u>0</u>		Total	14-17
Total	18			
5	SOPHOMOR	E YEAR		
EVAN 101	2	CSIS 111		3
RSCH 201	3	PHYS 232		4
THEO 201	2	THEO 202		2
Info Literacy Elective ¹ [CSIS 110]	3	MATH 200		3
Natural Science Elective ¹ [PHYS 231]	4	MATH 231		4
Social Science Elective ¹ [PSYC 210]	3	CSER		0
CSER	<u>0</u>		Total	16
Total	17			
	JUNIOR Y	EAR		
Critical Thinking Elective ¹	3	Cultural Studies Elective ¹		3
EDUC 235	1	EDUC 360		2
EDUC 236	2	MATH 421		3
EDUC 240	2	MATH 431		3
MATH 311	3	MATH Elective ^{4,6}		3
MATH 321	3	MATH Elective ^{5,6}		3
MATH Elective ³	3	CSER		<u>0</u>
CSER	<u>0</u>		Total	17
Total	17			
	SENIOR Y	EAR		
EDUC 425	3	EDUC 475		2
EDUC 435	2	EDUC 476		5
EDUC 436	1	EDUC 477		5
MATH 419	2	CSER		0
MATH 420	1		Total	12
MATH 450	1			
MATH Elective ⁷	3			
CSER	<u>0</u>			
Total	13			

Notes

All applicable prerequisites must be met

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