

**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/

#### FOUNDATIONAL SKILLS REQUIREMENTS (44-47 hours)

Course		Hrs	Sem	Grade
<b>Communication &amp; Information Literacy (13 hours)<sup>1</sup></b>				
ENGL 101	Composition & Rhetoric	3	_____	_____
INQR 101	Inquiry 101	1	_____	_____
_____	Communications Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____

#### Technological Solutions & Quantitative Reasoning (4-7 hours)<sup>1</sup>

UNIV 101	University Core Competencies	1	_____	_____
MATH _____	Math Elective (MATH 114 or higher)	3	_____	_____
_____	Technology Competency <sup>2</sup>	0-3	_____	_____

#### Critical Thinking (8 hours)<sup>1</sup>

RLGN 105	Intr Bwvw/Contemp Moral Issues <sup>3</sup>	2	_____	_____
RSCH 201	Research 201	3	_____	_____
_____	Critical Thinking Elective	3	_____	_____

#### Civic & Global Engagement (5 hours)<sup>1</sup>

EVAN 101	Evangelism & Christian Life <sup>3</sup>	2	_____	_____
_____	Cultural Studies Elective	3	_____	_____

#### Social & Scientific Inquiry (6 hours)<sup>1</sup>

_____	Natural Science Elective	3	_____	_____
_____	Social Science Elective	3	_____	_____

#### Christianity & Contexts (8 hours)<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	_____	_____

Course		Hrs	Sem	Grade
<b>Major Foundational Courses (19-27 hours)</b>				
BIOL 224	General Biology I <sup>4,5</sup>	4	_____	_____
CHEM _____	_____	4 <sup>5,6</sup>	_____	_____
CHEM _____	_____	4 <sup>4,5,7</sup>	_____	_____
MATH 126	Elementary Calculus for Business & Sci <sup>4,5</sup>			
or MATH 131	Calculus & Analytic Geometry I <sup>4,5</sup>	3-4	_____	_____
MATH 201	Introduction to Probability & Statistics <sup>4,5</sup>			
or MATH 211	Introduction to Statistical Analysis <sup>4,5</sup>	3	_____	_____
PHYS 201	General Physics I <sup>4,5</sup>			
or PHYS 231	University Physics I <sup>4,5</sup>	4	_____	_____
PHYS 202	General Physics II <sup>4,5</sup>			
or PHYS 232	University Physics II <sup>4,5</sup>	4	_____	_____

#### MAJOR

<b>Core (55 hours)</b>				
BCHM 451	Biochemistry I	4	_____	_____
BCHM 452	Biochemistry II	4	_____	_____
BIOL 225	General Biology II			
or BIOL 317	Botany	4	_____	_____
BIOL 301	Genetics	4	_____	_____
BIOL 303	Microbiology	4	_____	_____
BIOL 400	Biology Seminar	1	_____	_____
BIOL 415	Cell Biology	4	_____	_____
BIOL 455	Molecular Techniques	3	_____	_____
CHEM 301	Organic Chemistry I	4	_____	_____
CHEM 302	Organic Chemistry II	4	_____	_____
CHEM 321	Analytical Chemistry	4	_____	_____
CHEM 461	Physical Chemistry I	3	_____	_____
CHEM 462	Physical Chemistry II	3	_____	_____
CHEM 465	Physical Chemistry I Lab	1	_____	_____
CHEM 466	Physical Chemistry II Lab	1	_____	_____
CRST 290	History of Life			
or CRST 390	Origins	3	_____	_____
MATH 132	Calculus & Analytic Geometry II	4	_____	_____

#### FREE ELECTIVES (0-2 hours)

#### Notes

All applicable prerequisites must be met

<sup>1</sup>Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling in foundational skill 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>Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 and 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>MATH 131, 211, PHYS 231 and 232 are strongly recommended

<sup>5</sup>Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened)

<sup>6</sup>Choose CHEM 121 OR CHEM 131 and 135

<sup>7</sup>Choose CHEM 122 OR CHEM 132 and 136

Suggested Course Sequence on second page

#### 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

50% 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

## SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

First Semester		Second Semester	
ENGL 101	3	RLGN 105	2
INQR 101	1	CHEM Elective(s) <sup>4</sup>	4
UNIV 101	1	Information Literacy Elective <sup>1</sup>	3
Natural Science Elective <sup>1</sup> [BIOL 224]	4	BIOL 225 <u>or</u> 317	4
CHEM Elective(s) <sup>2</sup>	4	MATH 132	4
MATH 126 <u>or</u> 131 <sup>3</sup>	3-4	CSER	<u>0</u>
CSER	<u>0</u>	Total	17
Total	16-17		

### SOPHOMORE YEAR

EVAN 101	2	Communications Elective <sup>1</sup>	3
RSCH 201	3	Critical Thinking Elective <sup>1</sup>	3
MATH Elective <sup>1</sup> [MATH 201 <u>or</u> 211 <sup>3</sup> ]	3	Technology Competency <sup>5</sup>	0-3
BIOL 301	4	BIOL 415	4
CHEM 301	4	CHEM 302	4
CSER	<u>0</u>	CSER	<u>0</u>
Total	16	Total	14-17

### JUNIOR YEAR

Information Literacy Elective <sup>1</sup>	3	THEO 201	2
PHYS 201 <u>or</u> 231 <sup>3</sup>	4	PHYS 202 <u>or</u> 232 <sup>3</sup>	4
BCHM 451	4	BCHM 452	4
CHEM 321	4	BIOL 400	1
CSER	<u>0</u>	BIOL 455	3
Total	15	CSER	<u>0</u>
		Total	14

### SENIOR YEAR

BIBL 110	2	BIBL 105	2
THEO 202	2	Cultural Studies Elective <sup>1</sup>	3
Social Sciences Elective <sup>1</sup>	3	BIOL 303	4
CHEM 461	3	CHEM 462	3
CHEM 465	3	CHEM 466	1
CRST 290 or CRST 390	3	CSER	<u>0</u>
CSER	<u>0</u>	Total	13
Total	16		

#### Notes

*All applicable prerequisites must be met*

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

<sup>2</sup>Choose CHEM 121 OR CHEM 131 and 135

<sup>3</sup>MATH 131, 211, PHYS 231 and 232 are strongly recommended

<sup>4</sup>Choose CHEM 122 OR CHEM 132 and 136

<sup>5</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