

**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 (46-49 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 (5-8 hours)<sup>1</sup>

UNIV 101	University Core Competencies	1	_____	_____
MATH _____	Math Elective (MATH 114 or higher)	4	_____	_____
_____	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 (7 hours)<sup>1</sup>

_____	Natural Science Elective	4	_____	_____
_____	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 (0-20 hours)</b>				
BUSI 240	Organizational Behavior I <sup>4</sup>	3	_____	_____
CSIS 110	Introduction to Computing Sciences <sup>4</sup>	3	_____	_____
CSIS 111	Introduction to Programming <sup>4</sup>	3	_____	_____
ENGR 270	Technical Communication <sup>4</sup>	3	_____	_____
MATH 131	Calculus & Analytical Geometry I <sup>4</sup>	4	_____	_____
PHYS 201	General Physics I <sup>4</sup>	4	_____	_____

#### MAJOR

<b>Core (42 hours)</b>				
CSIS 100	Intro. to Information Sciences & Systems	3	_____	_____
CSIS 112	Advanced Programming	3	_____	_____
CSIS 215	Algorithms & Data Structures	3	_____	_____
CSIS 326	Database System Concepts	3	_____	_____
CSIS 342	Computer Architecture & Organization	3	_____	_____
CSIS 345	Introduction to Linux	3	_____	_____
CSIS 352	System Administration	3	_____	_____
CSIS 355	Network Architecture & Protocols	3	_____	_____
CSIS 434	Theory of Programming Languages	3	_____	_____
CSIS 443	Operating Systems	3	_____	_____
CSIS 461	Technical Aspects of Computer Security	3	_____	_____
CSIS 471	Software Engineering	3	_____	_____
CSIS 481	CS Capstone I <sup>5</sup>	3	_____	_____
or CSIS 485	Cybersecurity Capstone I <sup>5</sup>	3	_____	_____
CSIS 482	CS Capstone II <sup>5</sup>	3	_____	_____
or CSIS 486	Cybersecurity Capstone II <sup>5</sup>	3	_____	_____

<b>Cognate (12 hours)</b>				
CSIS 340	Studies in Information Security	3	_____	_____
CSIS 463	Modern Cryptography	3	_____	_____
CSIS _____	CSIS Programming Elective <sup>6</sup>	3	_____	_____
MATH 350	Discrete Mathematics	3	_____	_____

<b>Quantitative Studies Courses (10 hours)</b>				
MATH 128	Elem. Functions & Coordinate Geometry	4	_____	_____
MATH 211	Introduction to Statistical Analysis	3	_____	_____
MATH 250	Introduction to Discrete Mathematics	3	_____	_____

<b>Lab Sciences Courses (4 hours)</b>				
_____	Lab Science Elective <sup>7</sup>	4	_____	_____

<b>Technical Elective Courses (6 hours)<sup>8</sup></b>				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

#### 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 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>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

<sup>4</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>5</sup>Cybersecurity Cognate students are required to take the Cybersecurity Capstones (CSIS 485 & 486). Students in other Cognates are required to take the CS Capstones (CSIS 481 & 482)

<sup>6</sup>Choose one of the following Programming Language courses: CSIS 209, 212, 244, or 312. Other languages may be approved by the department chair.

<sup>7</sup>Choose any science course which includes a lab component. Students typically choose BIOL 101 and 103, 102 and 104, 224, CHEM 105, 107, 121 or PHYS 202. If choosing a Physics course, it must be one that adds to the material in PHYS 201.

<sup>8</sup>Choose from: BUSI 300, 301, 313, 424, 427, or any 200-400 level Computer Science, Math, or Engineering course not already required by the degree

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** courses in the major, quantitative studies, lab science, technical elective, and major foundational sections

50% Of major, core, and cognate 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	EVAN 101	2
UNIV 101	1	INQR 101	1
Information Literacy Elective <sup>1</sup> [CSIS 110]	3	RLGN 105	2
Technology Competency <sup>2</sup>	0-3	Communications Elective <sup>1</sup> [ENGR 270]	3
CSIS 100	3	Information Literacy Elective <sup>1</sup> [CSIS 111]	3
MATH 128	4	Math Elective <sup>1</sup> [MATH 131]	4
CSER	0	CSER	0
	Total 14-17		Total 15

### **SOPHOMORE YEAR**

BIBL 105	2	BIBL 110	2
Natural Science Elective <sup>1</sup> [PHYS 201]	4	RSCH 201	3
Social Science Elective <sup>1</sup> [BUSI 240]	3	CSIS 215	3
CSIS 112	3	CSIS 345	3
CSIS 340	3	MATH 211	3
MATH 250	3	CSER	0
CSER	0		Total 14
	Total 18		

### **JUNIOR YEAR**

CSIS 326	3	CSIS 434	3
CSIS 342	3	CSIS 443	3
CSIS 352	3	CSIS 461	3
CSIS 355	3	CSIS 463	3
MATH 350	3	CSIS 471	3
CSER	0	CSER	0
	Total 15		Total 15

### **SENIOR YEAR**

THEO 201	2	THEO 202	2
CSIS 485	3	Critical Thinking Elective <sup>1</sup>	3
Computer Science Programming Elective <sup>5</sup>	3	Cultural Studies Elective <sup>1</sup>	3
Lab Science Elective <sup>4</sup>	4	CSIS 486	3
Technical Elective <sup>5</sup>	3-4	Technical Elective <sup>5</sup>	3-4
CSER	0	CSER	0
	Total 15-16		Total 14-15

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