

**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 (41-44 hours)

Course		Hrs	Sem	Grade
<b>Communication &amp; Information Literacy (12 hours)<sup>1</sup></b>				
ENGL 101	Composition & Rhetoric	3	_____	_____
_____	Communications Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____

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

UNIV 104	Instructional Tech. for Online Learning	0-3	_____	_____
MATH _____	Math Elective (MATH 114 or higher)	4	_____	_____

#### **Critical Thinking (7 hours)<sup>1</sup>**

RLGN 104	Christian Life & Biblical Worldview <sup>2</sup>	4	_____	_____
_____	Critical Thinking Elective	3	_____	_____

#### **Civic & Global Engagement (3 hours)<sup>1</sup>**

_____	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 104	Survey of Old & New Testament	4	_____	_____
THEO 104	Introduction to Theology Survey <sup>2</sup>	4	_____	_____

#### **Major Foundational Courses (0-11 hours)**

CSIS 110	Introduction to Computer Science <sup>3,4</sup>	3	_____	_____
MATH 128	Elem. Functions & Coordinate Geo. <sup>3,4</sup>	4	_____	_____
PHYS 201	General Physics I <sup>3,4</sup>	4	_____	_____

#### MAJOR

#### Core (51 hours)

CSIS 100	Intro. to Information Sciences & Systems	3	_____	_____
CSIS 111	Introduction to Programming	3	_____	_____
CSIS 112	Advanced Programming	3	_____	_____
CSIS 215	Algorithms & Data Structures	3	_____	_____
CSIS 325	Database Management Systems	3	_____	_____
CSIS 340	Studies in Information Security	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 463	Modern Cryptography	3	_____	_____
CSIS 471	Software Engineering	3	_____	_____
CSIS 485	Cybersecurity Capstone I	3	_____	_____
CSIS 486	Cybersecurity Capstone II	3	_____	_____

#### Quantitative Studies Courses (13 hours)

MATH 131	Calculus & Analytic Geometry I	4	_____	_____
MATH 211	Introduction to Statistical Analysis	3	_____	_____
MATH 250	Introduction to Discrete Mathematics	3	_____	_____
MATH 350	Discrete Mathematics	3	_____	_____

#### Lab Sciences Courses (4 hours)

_____	Lab Science Elective <sup>5</sup>	4	_____	_____
-------	-----------------------------------	---	-------	-------

#### Technical Elective Courses (12-15 hours)<sup>6,7</sup>

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

#### **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>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

<sup>3</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>4</sup>Minimum grade of 'C' required

<sup>5</sup>Choose from BIOL 101 and BIOL 103, OR PHSC 210 and 211, OR any other Lab Science Course and its associated Lab

<sup>6</sup>Choose a minimum of 12 credits from any CSIS course not already required in the degree, OR any ENGx (Engineering) course

<sup>7</sup>A 300-400 level Computer Science Information Systems internship is strongly recommended

*Suggested Course Sequence on second page*

#### **Graduation Requirements**

121 Total Hours

2.0 Overall grade point average

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

Grade of 'C' Minimum required for all courses in the major, quantitative studies, lab science, and technical electives

50% Of major taken through Liberty University

30.25 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

## **SUGGESTED COURSE SEQUENCE**

### **FRESHMAN YEAR**

First Semester		Second Semester	
Math Elective <sup>1</sup> [MATH 128] [A Term]	4	MATH 131 [A Term]	4
CSIS 100 [B Term]	3	Technical Elective <sup>2,3</sup> [B Term]	3
UNIV 104 [B Term]	0-3	CSIS 111 [D Term]	3
Info. Lit. Elective <sup>1</sup> [CSIS 110] [D Term]	3	Communications Elective <sup>1</sup> [B or D Term]	<u>3</u>
ENGL 101 [B or D Term]	<u>3</u>	Total	13
Total	13-16		

### **SOPHOMORE YEAR**

MATH 211 [B Term]	3	CSIS 340 [B Term]	3
Technical Elective <sup>2,3</sup> [B Term]	3	MATH 350 [B Term]	3
CSIS 112 [D Term]	3	CSIS 215 [D Term]	3
MATH 250 [D Term]	3	Nat. Sci. Elective <sup>1</sup> [PHYS 201] [D Term]	4
BIBL 104 [B or D Term]	<u>4</u>	Info. Lit. Elective <sup>1</sup> [B or D Term]	<u>3</u>
Total	16	Total	16

### **JUNIOR YEAR**

CSIS 345 [B Term]	3	CSIS 342 [B Term]	3
THEO 104 [B Term]	4	CSIS 352 [B Term]	3
CSIS 325 [D Term]	3	CSIS 355 [D Term]	3
Cultural Studies Elective <sup>1</sup> [B or D Term]	3	CSIS 434 [D Term]	3
Lab Science Elective <sup>4</sup> [B or D Term]	<u>4</u>	Social Sciences Elective <sup>1</sup> [B or D Term]	<u>3</u>
Total	16	Total	15

### **SENIOR YEAR**

CSIS 463 [B Term]	3	CSIS 485 [B Term]	3
CSIS 443 [B Term]	3	Technical Elective <sup>2,3</sup> [B Term]	3
CSIS 461 [D Term]	3	CSIS 486 [D Term]	3
CSIS 471 [D Term]	3	Technical Elective <sup>2,3</sup> [D Term]	3
RLGN 104 [B or D Term]	4	Critical Thinking Elective <sup>1</sup> [B or D Term]	<u>3</u>
Total	16	Total	15

#### **Notes**

<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>Choose from: any CSIS course<sup>3</sup> not already required in the degree, or any ENGx (Engineering) course. A total of 12 credits are required Technical Electives.

<sup>3</sup>A 300-400 level Computer Science Information Systems internship is strongly recommended

<sup>4</sup>Choose from BIOL 101 *and* BIOL 103, OR PHSC 210 *and* 211, OR any other Lab Science course *and* its associated Lab