

**Important:** This degree plan is effective for those starting this degree program in fall 2022 through summer 2023. 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	Foundational Skills	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	_____	_____

**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>Students are required to take these courses residually in support of ABET accreditation. Exceptions are on a case-by-case basis and require ABET coordinator review and Department Chair approval.

<sup>6</sup>Choose one of the following Programming Language courses: CSCN (or CSIS) 209, 212, 244, 312, 315, 316, or 354, or BMIT 212. Other languages may be approved by the department chair.

<sup>7</sup>Any student entering the major directly into MATH 131 will require a 4 credit MATH Elective to substitute in place of MATH 128 (for example, MATH 132 may sub for credit)

<sup>8</sup>Choose any science course which includes a lab component. If choosing a Physics course, it must be PHYS 202 and 202L, or a higher level Physics course. PHYS 101 and 103 are not allowable.

<sup>9</sup>Choose from: BUSI 300, 301, 313, 424, 427, any 200-400 level Computer Science course, any 200-400 level Engineering course (except ENGR 210), or any Advanced Math course (must be MATH 132 or higher) not already required by the degree.

*Suggested Course Sequence on second page*

Course		Hrs	Sem	Grade
<b>Major Foundational Courses (0-20 hours)</b>				
BUSI 240	Organizational Behavior I <sup>4</sup>	3	_____	_____
CSCN 110	Introduction to Computer Sciences <sup>4</sup>	3	_____	_____
CSCN 111	Programming in C++ Beginner <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**

Course		Hrs	Sem	Grade
<b>Core (42 hours)</b>				
CSCN 112	Programming in C++ Advanced <sup>5</sup>	3	_____	_____
CSCN 215	Data Structures & Algorithms Using C++ <sup>5</sup>	3	_____	_____
CSCN 230	Business Data Communications & Networks <sup>5</sup>	3	_____	_____
CSCN 326	Database Design & Management <sup>5</sup>	3	_____	_____
CSCN 342	Computer Architecture <sup>5</sup>	3	_____	_____
CSCN 345	Linux Operating Systems <sup>5</sup>	3	_____	_____
CSCN 352	Windows System Administration <sup>5</sup>	3	_____	_____
CSCN 355	Network Architecture, Protocols, & Theory <sup>5</sup>	3	_____	_____
CSCN 434	Program Language Design & Comp Theory <sup>5</sup>	3	_____	_____
CSCN 443	Operating Systems Design <sup>5</sup>	3	_____	_____
CSCN 461	Aspects of Computer Security - Defensive <sup>5</sup>	3	_____	_____
CSCN 471	Software Engineering Management <sup>5</sup>	3	_____	_____
CSCN 485	Cybersecurity Practicum I <sup>5</sup>	3	_____	_____
CSCN 486	Cybersecurity Practicum II <sup>5</sup>	3	_____	_____

<b>Cognate (12 hours)</b>				
CSCN 340	Information Security Concepts & Principles <sup>5</sup>	3	_____	_____
CSCN 462	Adv Aspects of Comp Sec - Ethical Hacking <sup>5</sup>	3	_____	_____
CSCN 463	Modern Cryptography <sup>5</sup>	3	_____	_____
CSCN _____	CSCN Programming Language Elective <sup>5,6</sup>	3	_____	_____

<b>Quantitative Studies Courses (13 hours)</b>				
MATH 128	Elem. Functions & Coordinate Geometry <sup>7</sup>	4	_____	_____
MATH 211	Introduction to Statistical Analysis	3	_____	_____
MATH 250	Introduction to Discrete Mathematics	3	_____	_____
MATH 350	Discrete Mathematics	3	_____	_____

<b>Lab Sciences Courses (4 hours)</b>				
_____	Lab Science Elective <sup>8</sup>	4	_____	_____

<b>Technical Elective Courses (3 hours)<sup>9</sup></b>				
_____	_____	_____	_____	_____

**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

**25%** 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	BIBL 105	2
EVAN 101	2	RSCH 201	3
INQR 101	1	UNIV 101	1
RLGN 105	2	Information Literacy Elective <sup>1</sup> [CSCN 111]	3
Information Literacy Elective <sup>1</sup> [CSCN 110]	3	Math Elective <sup>1</sup> [MATH 131]	4
Technology Competency <sup>2</sup>	0-3	CSCN 230	3
MATH 128 <sup>3</sup>	4	CSER	<u>0</u>
CSER	<u>0</u>	Total	16
Total		15-18	

### SOPHOMORE YEAR

BIBL 110	2	Social Science Elective <sup>1</sup> [BUSI 240]	3
Communications Elective <sup>1</sup> [ENGR 270]	3	CSCN 215	3
CSCN 112	3	CSCN 352	3
CSCN 345	3	CSCN 355	3
MATH 250	3	MATH 350	3
CSER	<u>0</u>	CSER	<u>0</u>
Total		14	
Total		15	

### JUNIOR YEAR

Natural Science Elective <sup>1</sup> [PHYS 201]	4	CSCN 326	3
CSCN 342	3	CSCN 340	3
CSCN 461	3	CSCN 471	3
CSCN 463	3	Computer Science Programming Elective <sup>4</sup>	3
MATH 211	3	Lab Science Elective <sup>5</sup>	4
CSER	<u>0</u>	CSER	<u>0</u>
Total		16	
Total		16	

### SENIOR YEAR

THEO 201	2	THEO 202	2
CSCN 434	3	Critical Thinking Elective <sup>1</sup>	3
CSCN 443	3	Cultural Studies Elective <sup>1</sup>	3
CSCN 462	3	CSCN 486	3
CSCN 485	3	Technical Elective <sup>6</sup>	3
CSER	<u>0</u>	CSER	<u>0</u>
Total		14	
Total		14	

#### Notes

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<sup>4</sup>Choose one of the following Programming Language courses: CSCN (or CSIS) 209, 212, 244, 312, 315, 316, or 354, or BMIT 212. Other languages may be approved by the department chair. CSCN 354 is strongly recommended for the Cybersecurity Cognate.

<sup>5</sup>Choose any science course which includes a lab component. If choosing a Physics course, it must be PHYS 201 and 202L, or a higher level Physics course. PHYS 101 and 103 are not allowable.

<sup>6</sup>Choose from: BUSI 300, 301, 313, 424, 427, any 200-400 level Computer Science course, any 200-400 level Engineering course (except ENGR 210), or any Advanced Math course (must be MATH 132 or higher) not already required by the degree.