

**Important:** This degree plan is effective for those starting this degree program in fall 2023 through summer 2024. 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>

Course	Hrs	Sem	Grade
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>

Course	Hrs	Sem	Grade
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>

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

#### Social & Scientific Inquiry (7 hours)<sup>1</sup>

Course	Hrs	Sem	Grade
_____	Natural Science Elective	4	_____
_____	Social Science Elective	3	_____

#### Christianity & Contexts (8 hours)<sup>1</sup>

Course	Hrs	Sem	Grade
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 & Management <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>5,6</sup>	3	_____
CSCN 481	Computer Science Practicum I <sup>5,6</sup>	3	_____
CSCN 482	Computer Science Practicum II <sup>5,6</sup>	3	_____

Course	Hrs	Sem	Grade
<b>Cognate (12 hours)</b>			
CSCN 321	Python & R for Data Science <sup>5</sup>	3	_____
CSCN 322	Data Engineering <sup>5</sup>	3	_____
CSCN 323	Data Visualization <sup>5</sup>	3	_____
CSCN 421	Applied Machine Learning	3	_____
or CSCN 422	Artificial Intelligence <sup>5</sup>	3	_____

Course	Hrs	Sem	Grade
<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	_____

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

Course	Hrs	Sem	Grade
<b>Technical Elective Courses (3 hours)<sup>9</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 RLG 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 residentially in support of ABET accreditation. Exceptions may be made on a case by case basis, and require ABET coordinator review and Department Chair approval.  
<sup>6</sup>Course requires Department Chair approval for registration.  
<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

**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 15		Total 15	

### JUNIOR YEAR

Natural Science Elective <sup>1</sup> [PHYS 201]	4	CSCN 322	3
CSCN 321	3	CSCN 323	3
CSCN 342	3	CSCN 326	3
CSCN 461	3	CSCN 471	3
MATH 211	3	Lab Science Elective <sup>4</sup>	4
CSER	<u>0</u>	CSER	<u>0</u>
Total 16		Total 16	

### SENIOR YEAR

THEO 201	2	THEO 202	2
CSCN 421 or 422	3	Critical Thinking Elective <sup>1</sup>	3
CSCN 434	3	Cultural Studies Elective <sup>1</sup>	3
CSCN 443	3	CSCN 482	3
CSCN 481	3	Technical Elective <sup>5</sup>	3
CSER	<u>0</u>	CSER	<u>0</u>
Total 14		Total 14	

#### Notes

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<sup>3</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>4</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>5</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.