

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
Communication & Information Literacy (13 hours)¹			
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)¹

Course	Hrs	Sem	Grade
UNIV 101	Foundational Skills	1	_____
MATH _____	Math Elective (MATH 114 or higher)	4	_____
_____	Technology Competency ²	0-3	_____

Critical Thinking (8 hours)¹

Course	Hrs	Sem	Grade
RLGN 105	Intr Bwvw/Contemp Moral Issues ³	2	_____
RSCH 201	Research 201	3	_____
_____	Critical Thinking Elective	3	_____

Civic & Global Engagement (5 hours)¹

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

Social & Scientific Inquiry (7 hours)¹

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

Christianity & Contexts (8 hours)¹

Course	Hrs	Sem	Grade
BIBL 105	Old Testament Survey	2	_____
BIBL 110	New Testament Survey	2	_____
THEO 201	Theology Survey I ³	2	_____
THEO 202	Theology Survey II ³	2	_____

Course	Hrs	Sem	Grade
Major Foundational Courses (0-20 hours)			
BUSI 240	Organizational Behavior & Management ⁴	3	_____
CSCN 110	Introduction to Computer Sciences ⁴	3	_____
CSCN 111	Programming in C++ Beginner ⁴	3	_____
ENGR 270	Technical Communication ⁴	3	_____
MATH 131	Calculus & Analytical Geometry I ⁴	4	_____
PHYS 201	General Physics I ⁴	4	_____

MAJOR

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

Course	Hrs	Sem	Grade
Cognate (12 hours)			
CSCN 340	Information Security Concepts & Principles ⁵	3	_____
CSCN 462	Adv Aspects of Comp Sec - Ethical Hacking ⁵	3	_____
CSCN 463	Modern Cryptography ⁵	3	_____
CSCN _____	CSCN Programming Language Elective ^{5,6}	3	_____

Course	Hrs	Sem	Grade
Quantitative Studies Courses (13 hours)			
MATH 128	Elem. Functions & Coordinate Geometry ⁷	4	_____
MATH 211	Introduction to Statistical Analysis	3	_____
MATH 250	Introduction to Discrete Mathematics	3	_____
MATH 350	Discrete Mathematics	3	_____

Course	Hrs	Sem	Grade
Lab Sciences Courses (4 hours)			
_____	Lab Science Elective ⁸	4	_____

Course	Hrs	Sem	Grade
Technical Elective Courses (3 hours)⁹			
_____	_____	_____	_____

Notes
 All applicable prerequisites must be met
¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements
²All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information
³Students 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
⁴Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened
⁵Students are required to take these courses residentially in support of ABET accreditation. Exceptions are on a case-by-case basis and require ABET coordinator review and Department Chair approval.
⁶Choose 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.
⁷Any 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)
⁸Choose 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.
⁹Choose 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 ¹ [CSCN 111]	3
Information Literacy Elective ¹ [CSCN 110]	3	Math Elective ¹ [MATH 131]	4
Technology Competency ²	0-3	CSCN 230	3
MATH 128 ³	4	CSER	<u>0</u>
CSER	<u>0</u>	Total	16
Total 15-18			

SOPHOMORE YEAR

BIBL 110	2	Social Science Elective ¹ [BUSI 240]	3
Communications Elective ¹ [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 ¹ [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 ⁴	3
MATH 211	3	Lab Science Elective ⁵	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 ¹	3
CSCN 443	3	Cultural Studies Elective ¹	3
CSCN 462	3	CSCN 486	3
CSCN 485	3	Technical Elective ⁶	3
CSER	<u>0</u>	CSER	<u>0</u>
Total 14		Total	14

Notes

¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

²All students must pass the Computer Assessment OR complete applicable INFT course; refer to www.liberty.edu/computerassessment for more information

³Any 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)

⁴Choose 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.

⁵Choose 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.

⁶Choose 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.