

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
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

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

Critical Thinking (8 hours)¹

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

Civic & Global Engagement (5 hours)¹

EVAN 101	Evangelism & Christian Life ³	2	_____	_____
_____	Cultural Studies Elective	3	_____	_____

Social & Scientific Inquiry (7 hours)¹

_____	Natural Science Elective	4	_____	_____
_____	Social Science Elective	3	_____	_____

Christianity & Contexts (8 hours)¹

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	_____	_____

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 residually in support of ABET accreditation. Exceptions may be made on a case by case basis, and require ABET coordinator review and Department Chair approval.

⁶Course requires Department Chair approval for registration.

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

Course		Hrs	Sem	Grade
Major Foundational Courses (0-20 hours)				
BUSI 240	Organizational Behavior I 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 ^{5,6}	3	_____	_____
CSCN 481	Computer Science Practicum I ^{5,6}	3	_____	_____
CSCN 482	Computer Science Practicum II ^{5,6}	3	_____	_____

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

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 15		Total	15

JUNIOR YEAR

Natural Science Elective ¹ [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 ⁴	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 ¹	3
CSCN 434	3	Cultural Studies Elective ¹	3
CSCN 443	3	CSCN 482	3
CSCN 481	3	Technical Elective ⁵	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 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.

⁵Choose 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.