

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 (41-44 hours)

Course		Hrs	Sem	Grade
Communication & Information Literacy (12 hours)¹				
ENGL 101	Composition & Rhetoric	3	_____	_____
_____	Communications Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____

Technological Solutions & Quantitative Reasoning (4-7 hours)¹

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

Critical Thinking (7 hours)¹

RLGN 104	Christian Life & Biblical Worldview ²	4	_____	_____
_____	Critical Thinking Elective	3	_____	_____

Civic & Global Engagement (3 hours)¹

_____	Cultural Studies Elective	3	_____	_____
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Social & Scientific Inquiry (7 hours)¹

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

Christianity & Contexts (8 hours)¹

BIBL 104	Survey of Old & New Testament	4	_____	_____
THEO 104	Introduction to Theology Survey ²	4	_____	_____

Course		Hrs	Sem	Grade
Major Foundational Courses (0-11 hours)				
CSIS 110	Introduction to Computer Science ^{3,4}	3	_____	_____
MATH 128	Elem. Functions & Coordinate Geo. ^{3,4}	4	_____	_____
PHYS 201	General Physics I ^{3,4}	4	_____	_____

MAJOR

Course		Hrs	Sem	Grade
<u>Core (51 hours)</u>				
CSIS 100	Intro. to Information Systems & Info Tech	3	_____	_____
CSIS 111	Introduction to Programming Using C++	3	_____	_____
CSIS 112	Advanced Programming Using C++	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	_____	_____

Course		Hrs	Sem	Grade
<u>Quantitative Studies Courses (13 hours)</u>				
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	_____	_____

Course		Hrs	Sem	Grade
<u>Lab Sciences Courses (4 hours)</u>				
_____	Lab Science Elective ⁵	4	_____	_____

Course		Hrs	Sem	Grade
<u>Technical Elective Courses (12-15 hours)^{6,7}</u>				
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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
²Students 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
³Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened
⁴Minimum grade of 'C' required
⁵Choose from BIOL 101 and BIOL 103, OR PHSC 210 and 211, OR any other Lab Science Course and its associated Lab
⁶Choose a minimum of 12 credits from any CSIS course not already required in the degree, OR any ENGx (Engineering) course
⁷A 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
25% 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 ¹ [MATH 128] [A Term]	4	MATH 131 [A Term]	4
CSIS 100 [B Term]	3	Technical Elective ^{2,3} [B Term]	3
UNIV 104 [B Term]	0-3	CSIS 111 [D Term]	3
Info. Lit. Elective ¹ [CSIS 110] [D Term]	3	Communications Elective ¹ [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 ^{2,3} [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 ¹ [PHYS 201] [D Term]	4
BIBL 104 [B or D Term]	<u>4</u>	Info. Lit. Elective ¹ [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 ¹ [B or D Term]	3	CSIS 434 [D Term]	3
Lab Science Elective ⁴ [B or D Term]	<u>4</u>	Social Sciences Elective ¹ [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 ^{2,3} [B Term]	3
CSIS 461 [D Term]	3	CSIS 486 [D Term]	3
CSIS 471 [D Term]	3	Technical Elective ^{2,3} [D Term]	3
RLGN 104 [B or D Term]	4	Critical Thinking Elective ¹ [B or D Term]	<u>3</u>
Total	16	Total	15

Notes

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

²Choose from: any CSIS course³ not already required in the degree, or any ENGx (Engineering) course. A total of 12 credits are required Technical Electives.

³A 300-400 level Computer Science Information Systems internship is strongly recommended

⁴Choose from BIOL 101 and BIOL 103, OR PHSC 210 and 211, OR any other Lab Science course and its associated Lab