

Important: This degree plan is effective for those starting this degree program in fall 2018 through summer 2019. 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/

CORE COMPETENCY REQUIREMENTS (46-49 hours)

Course		Hrs	Sem	Grade
Communication (6 hours)¹				
ENGL 101	Composition & Rhetoric	3	_____	_____
_____	Communications Elective	3	_____	_____
Math, Science & Technology (9-12 hours)¹				
MATH _____	Math Elective (MATH 114 or higher)	4	_____	_____
_____	Natural Science Elective	4	_____	_____
_____	Technology Competency ²	0-3	_____	_____
UNIV 101	University Core Competencies	1	_____	_____
Information Literacy (7 hours)¹				
INQR 101	Inquiry 101	1	_____	_____
_____	Composition Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
Critical Thinking (12 hours)¹				
RSCH 201	Research 201	3	_____	_____
_____	Literature OR Philosophy Elective	3	_____	_____
_____	Social Science Elective	3	_____	_____
_____	Cultural Studies Elective	3	_____	_____
Christian Life & Thought (12 hours)^{1,3}				
BIBL 105	Old Testament Survey	2	_____	_____
BIBL 110	New Testament Survey	2	_____	_____
EVAN 101	Evangelism & Christian Life	2	_____	_____
RLGN 105	Intr Bwww/Contemp Moral Issues	2	_____	_____
THEO 201	Theology Survey I	2	_____	_____
THEO 202	Theology Survey II	2	_____	_____

Major Foundational Courses (4-15 hours)⁴

Course		Hrs	Sem	Grade
ENGR 270	Technical Communication	3	_____	_____
MATH 131	Calculus & Analytical Geometry I ⁵	4	_____	_____
MATH 132	Calculus & Analytical Geometry II ⁵	4	_____	_____
PHYS 231	University Physics I	4	_____	_____

MAJOR

Course		Hrs	Sem	Grade
Core (39 hours)				
CSIS 100	Intro. to Information Sciences & Systems	3	_____	_____
CSIS 110	Introduction to Computing Sciences	3	_____	_____
CSIS 111	Introduction to Programming	3	_____	_____
CSIS 112	Advanced Programming	3	_____	_____
CSIS 215	Algorithms & Data Structures	3	_____	_____
CSIS 326	Database System Concepts	3	_____	_____
CSIS 342	Computer Architecture & Organization	3	_____	_____
CSIS 355	Network Architecture & Protocols	3	_____	_____
CSIS 434	Theory of Programming Languages	3	_____	_____
CSIS 443	Operating Systems	3	_____	_____
CSIS 471	Software Engineering	3	_____	_____
CSIS 481	CS Capstone I	3	_____	_____
CSIS 482	CS Capstone II	3	_____	_____

Course		Hrs	Sem	Grade
Cognate (12 hours)				
CSIS 315	Client-Side Programming	3	_____	_____
CSIS 316	Server-Side Programming	3	_____	_____
CSIS 408	Web & Mobile Programming	3	_____	_____
CSIS 461	Technical Aspects of Computer Security	3	_____	_____
or CSIS 463	Modern Cryptography	3	_____	_____

Course		Hrs	Sem	Grade
Quantitative Studies Courses (10 hours)				
ENGR 133	Calculus with MATLAB	1	_____	_____
or MATH 133	Calculus with Mathematica Lab	1	_____	_____
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 (8 hours)				
_____	Natural Science Elective ⁶	4	_____	_____
_____	Lab Science Elective ⁷	4	_____	_____

Course		Hrs	Sem	Grade
Technical Elective Courses (12-13 hours)⁸				
CRST 290	History of Life	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 core competency 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
⁴Major Foundational Courses can also fulfill General Education/Core Competency requirements as applicable
⁵Minimum grade of "C" is required
⁶Choose from BIOL 213 and 214, BIOL 225, CHEM 105, 107, 122, ENVR 220 and 221, PHYS 101 and 103, PHYS 201, 202, or 232
⁷Choose from BIOL 101 and 103, 102 and 104, BIOL 224 or CHEM 121
⁸Choose a minimum of 10 credits from Approved Computer Science Courses
 Suggested Course Sequence on second page

Graduation Requirements
 131 Total Hours
 2.0 Overall grade point average
 32.75 Hours must be upper-level courses (300-400 level)
 Grade of 'C' Minimum required for **all** courses in the Major, Quantitative Studies, Lab Sciences and Technical Electives
 50% Of major, core, and cognate taken through Liberty University
 32.75 Hours must be completed through Liberty University
 Grad App Submission of Graduation 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	EVAN 101	2
MATH 131 ¹	4	INQR 101	1
UNIV 101	1	RLGN 105	2
Technology Competency ²	0-3	Communications Elective ³ [ENGR 270]	3
CSIS 100	3	Composition Elective ³	3
CSIS 110	3	Math Elective ³ [MATH 132 ¹]	4
MATH 133 or ENGR 133	1	CSIS 111	3
CSER	<u>0</u>	CSER	<u>0</u>
	Total 15-18		Total 18

SOPHOMORE YEAR

BIBL 105	2	BIBL 110	2
Natural Science Elective ³ [PHYS 231]	4	RSCH 201	3
Social Science Elective ³	3	Literature/Philosophy Elective ³	3
CRST 290	2-3	CSIS 215	3
CSIS 112	3	MATH 250	3
MATH 211	3	Lab Science Elective ⁴	4
CSER	<u>0</u>	CSER	<u>0</u>
	Total 17-18		Total 18

JUNIOR YEAR

THEO 201	2	THEO 202	2
Natural Science Elective ⁵	4	Cultural Studies Elective ³	3
CSIS 326	3	CSIS 315	3
CSIS 342	3	CSIS 434	3
CSIS 355	3	CSIS 443	3
MATH 350	3	CSIS 471	3
CSER	<u>0</u>	CSER	<u>0</u>
	Total 18		Total 17

SENIOR YEAR

Information Literacy Elective ³	3	CSIS 408	3
Social Science Elective ³	3	CSIS 461 or 463	3
CSIS 316	3	CSIS 482	3
CSIS 481	3	Technical Elective ⁶	3
Technical Elective ⁶	3	Technical Elective ⁶	3
Technical Elective ⁶	3	CSER	<u>0</u>
CSER	<u>0</u>		Total 15
	Total 18		

Notes

¹Minimum grade of "C" is required

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

³Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in core competency requirements

⁴Choose from BIOL 101 and 103, 102 and 104, BIOL 224 or CHEM 121

⁵Choose from BIOL 213 and 214, BIOL 225, CHEM 105, 107, 122, ENVR 220 and 221

⁶Choose a minimum of 10 credits from Approved Computer Science Courses