LIBERTY NIVERSITY U

Information Security Cognate

2018-2019 Degree Completion Plan

This degree plan is effective for those starting this degree program in fall 2018 through summer 2019. This degree plan will remain in Important: effect for students who do not break enrollment or who do not change degree programs, concentrations or cognates.

GENERAL EDUCATION/

	IPETENCY REQUIREMENTS (46-			Creda	Course		U =0	S	Gend	
Course		Hrs	Sem	Grade	Course Maior Formed	ational Common (4.15 hours)4	<u>Hrs</u>	Sem	Grade	
Communication (6 hours)1ENGL 101Composition & Rhetoric		3			ENGR 270	ational Courses (4-15 hours) ⁴ Technical Communication	3			
ENGL 101	Communications Elective	3			MATH 131	Calculus & Analytical Geometry I ⁵	4			
	Communications Elective	5			MATH 131 MATH 132	Calculus & Analytical Geometry II ⁵	4			
Math Science	ce & Technology (9-12 hours) ¹				PHYS 231	University Physics I	4			
MATH	Math Elective (MATH 114 or higher)	4			11110 201		•			
	Natural Science Elective	4			MAJOR					
	Technology Competency ²	0-3				Core (39 hours)				
UNIV 101	University Core Competencies	1			CSIS 100	Intro. to Information Sciences & Systems	3			
	i i i j i i i i i i				CSIS 110	Introduction to Computing Sciences	3			
Information	Literacy (7 hours) ¹				CSIS 111	Introduction to Programming	3			
INQR 101	Inquiry 101	1			CSIS 112	Advanced Programming	3			
	Composition Elective	3			CSIS 215	Algorithms & Data Structures	3			
	Information Literacy Elective	3			CSIS 326	Database System Concepts	3			
					CSIS 342	Computer Architecture & Organization	3			
Critical Thinking (12 hours) ¹					CSIS 355	Network Architecture & Protocols	3			
RSCH 201	Research 201	3			CSIS 434	Theory of Programming Languages	3			
	Literature OR Philosophy Elective	3			CSIS 443	Operating Systems	3			
	Social Science Elective	3			CSIS 471	Software Engineering	3			
	Cultural Studies Elective	3			CSIS 481	CS Capstone I	3			
					CSIS 482	CS Capstone II	3			
	fe & Thought (12 hours) ^{1,3}									
BIBL 105	Old Testament Survey	2				Cognate (12 hours)				
BIBL 110	New Testament Survey	2			CSIS 340	Studies in Information Security	3			
EVAN 101	Evangelism & Christian Life	2			CSIS 341	Information Security Planning	3			
RLGN 105	Intr Bwvw/Contemp Moral Issues Theology Survey I	2			CSIS 344 CSIS 461	Information Security Operations	3			
THEO 201 THEO 202	Theology Survey I Theology Survey II	2 2				Technical Aspects of Computer Security Modern Cryptography	2			
THEO 202	Theology Survey II	2			<u>or</u> CSIS 463	Modern Cryptography	3			
						Quantitative Studies Courses (10 hours)				
					ENGR 133	Calculus with MATLAB				
					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			
						Lab Sciences Courses (8 hours)				
						Natural Science Elective ⁶	4 4			
						Lab Science Elective ⁷	4			
						Technical Elective Courses (12-13 hours) ⁸	3			
					CRST 290	History of Life	2			
							_			
							-			
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					Notes					
						All applicable prerequisites must be met				
						of approved general education electives at www.lib	erty.ed	lu/gened		
					before enrolling in core competency requirements			DUPT		
						t pass the Computer Assessment OR complete appl		INFI CO	urse;	
Graduation Requirements					refer to <u>www.liberty.edu/computerassessment</u> for more information ³ Students transferring in 45 or more UG credit hours will have the requirements of RLGN					
131 Total Hours				105 & EVAN 101 waived; Students transferring in 60 or more UG credit hours will also						
2.0 Overall grade point average					have the requirements of THEO 201 & THEO 202 waived					
32.75 Hours must be upper-level courses (300-400 level) Grade of 'C' Minimum required for <u>all</u> courses in the Major, Quantitative Studies,					⁴ Major Foundational Courses can also fulfill General Education/Core Competency requirements as applicable					
50% Of major, core, and cognate taken through Liberty University				⁶ Choose from BIOL 213 and 214, BIOL 225, CHEM 105, 107, 122, ENVR 220 and 221,						
	2.75 Hours must be completed through Liberty Un	-			PHYS 101 and 103, PHYS 201, 202, or 232					
Grad A	pp Submission of Graduation Application must last semester of a student's anticipated gradua	-		iiii the	⁷ Choose from BIOL 101 <i>and</i> 103, 102 <i>and</i> 104, BIOL 224 or CHEM 121 ⁸ Choose a minimum of 10 credits from Approved Computer Science Courses					
1	asi semesier or a siduent s anticipated gradua	anon udle	-		Choose a minimu	an or to creates nom Approved Computer science	, cours	~ >		

Suggested Course Sequence on second page

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			
	SOPHOMORI	E 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 434	3			
CSIS 342	3	CSIS 443	3			
CSIS 355	3	CSIS 461 or 463	3			
MATH 350	3	CSIS 471	3			
CSER	<u>0</u>	CSER	<u>0</u>			
	Total 18		Total 17			
	SENIOR Y	EAR				
Information Literacy Elective ³	3	CSIS 341	3			
Social Science Elective ³	3	CSIS 344	3			
CSIS 340	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 <u>www.liberty.edu/computerassessment</u> for more information

³Refer to the list of approved general education electives at <u>www.liberty.edu/gened</u> 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