COMPUTER SCIENCE (B.S.) - WEB & MOBILE PROGRAMMING - RESIDENT

Important: This degree plan is effective for those starting this degree program in fall 2025 through summer 2026. 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

Code	Title	Hours
Communication	& Information Literacy ¹	
ENGL 101	Composition and Rhetoric	3
Communication	is Elective	3
Information Lite	eracy Elective	3
Information Lite	eracy Elective	3
Technological S	olutions & Quantitative Reasoning ¹	
UNIV 101	Foundational Skills	1
Math Elective	MATH 114 or higher	4
Technology Cor	npetency ²	0-3
Critical Thinking	g ¹	
RLGN 105	Introduction to Biblical Worldview ³	2
Critical Thinking	g Elective	3
Civic & Global E	ngagement ¹	
EVAN 101	Evangelism and the Christian Life ³	2
Cultural Studies	Elective	3
Social & Scienti	fic Inquiry ¹	
Natural Science	Elective	4
Social Science Elective		3
Christianity & C	ontexts 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
Total Hours		42-45

Total Hours

¹ Refer to the list of approved general education electives before enrolling in foundational skill requirements

² All students must pass the Computer Assessment OR complete applicable INFT course

³ Students 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

Major Requirements

Code	Title	Hours
Major Foundation	nal Courses	
BUSI 240	Organizational Behavior and Management ^{1,2}	3
CSCN 110	Introduction to Computer Sciences ^{1,2}	3

Code	Title	Hours
CSCN 111	Programming In C++ Beginner ^{1,2}	3
ENGR 270	Technical Communication ^{1,2}	3
MATH 131	Calculus and Analytic Geometry I ^{1,2}	4
PHYS 201	General Physics I ^{1,2}	4
Total Hours		20

¹ Course may fulfill select general education requirements

² Minimum grade of 'C' required.

Code	Title	Hours	
Major Courses ¹			
CSCN 112	Programming in C++ Advanced	3	
CSCN 215	Data Structures and Algorithms using C++	3	
CSCN 230	Business Data Communications and Networks	3	
CSCN 326	Database Design and Management	3	
CSCN 340	Information Security Concepts and Principles	3	
CSCN 342	Computer Architecture	3	
CSCN 345	Linux Operating System	3	
CSCN 352	Windows System Administration	3	
CSCN 355	Network Architecture, Protocols, and Theory	3	
CSCN 434	Programming Language Design and Compiler Theory	3	
CSCN 443	Operating Systems Design	3	
CSCN 471	Software Engineering Management	3	
CSCN 481	Computer Sciences Practicum I	3	
CSCN 482	Computer Sciences Practicum II	3	
Quantitative Studies Courses			
MATH 211	Introduction to Statistical Analysis	3	
MATH 250	Introduction to Discrete Mathematics	3	
MATH 350	Discrete Mathematics	3	
Math Elective ^{2,3}		3-4	
Lab Science Cours	ses		
Lab Science Elective ⁴		4	
Technical Elective Courses			
Technical Electiv	e ⁵	7	
Total Hours		65-66	

¹ Students 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.

 ² Choose 3-4 credits from the following: MATH 132, MATH 221, MATH 301, MATH 302, or MATH 307
³ Other Mathematical Structure International Content of the structure International Conten

Other Math courses may be approved on a case by case basis by the Computer Science Department chair.

⁴ Choose any science course which includes a lab component. If choosing a Physics course, if must be PHYS 202 and PHYS 202L, or a higher level Physics course. PHYS 101 and PHYS 103 are not allowable.

⁵ Choose from: BUSI 300, BUSI 301, BUSI 313, BUSI 424, BUSI 427, any 200-400 level Computer Science course, any 200-400 level Engineering course (except ENGR 210), or any Advanced Math course (MATH 132 or higher) not already required by the degree.

Code Cognate ¹	Title	Hours
CSCN 310	Web Programming in HTML	3
CSCN 315	Front-end Programming in JavaScript	3
CSCN 316	Back-end Programming in PHP	3
CSCN 408	Mobile Programming	3
Total Hours		12

¹ Students are required to take these courses residentially in support in support of ABET accreditation. Exceptions may be made on a case-by-case basis, and require ABET coordinator review and Department Chair approval.

All applicable prerequisites must be met

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

Course Sequence

Course	Title	Hours
First Year		
First Semester		
ENGL 101	Composition and Rhetoric	3
EVAN 101	Evangelism and the Christian Life	2
INQR 101	Inquiry	1
RLGN 105	Introduction to Biblical Worldview	2
Information Lite	3	
Technology Con		0-3
MATH 128	Precalculus with Trigonometry ³	4
CSER		0
	Hours	15-18
Second Semest		15-18
Second Semest BIBL 105		15-18
	er	
BIBL 105 RSCH 201 UNIV 101	er Old Testament Survey Research Foundational Skills	2
BIBL 105 RSCH 201 UNIV 101 Information Lite	er Old Testament Survey Research Foundational Skills eracy Elective (CSCN 111) ¹	2
BIBL 105 RSCH 201 UNIV 101	er Old Testament Survey Research Foundational Skills eracy Elective (CSCN 111) ¹	2 3 1
BIBL 105 RSCH 201 UNIV 101 Information Lite	er Old Testament Survey Research Foundational Skills eracy Elective (CSCN 111) ¹	2 3 1 3
BIBL 105 RSCH 201 UNIV 101 Information Lite Math Elective (N	er Old Testament Survey Research Foundational Skills pracy Elective (CSCN 111) ¹ MATH 131) ¹ Business Data Communications and	2 3 1 3 4

Course	Title	Hours	
Second Year			
First Semester			
BIBL 110	New Testament Survey	2	
Communications	Elective (ENGR 270) ¹	3	
CSCN 112	Programming in C++ Advanced	3	
CSCN 345	Linux Operating System	3	
MATH 250	Introduction to Discrete Mathematics	3	
CSER		0	
	Hours	14	
Second Semester			
Social Science El	ective (BUSI 240) ¹	3	
CSCN 215	Data Structures and Algorithms using C++	3	
CSCN 352	Windows System Administration	3	
CSCN 355	Network Architecture, Protocols, and	3	
	Theory		
MATH 350	Discrete Mathematics	3	
CSER		0	
	Hours	15	
Third Year			
First Semester			
	Elective (PHYS 201) ¹	4	
CSCN 315	Front-end Programming in JavaScript	3	
CSCN 342	Computer Architecture	3	
CSCN 461	Aspects of Computer Security-Defensive	3	
MATH 211	Introduction to Statistical Analysis	3	
CSER		0	
	Hours	16	
Second Semester			
CSCN 310	Web Programming in HTML	3	
CSCN 316	Back-end Programming in PHP	3	
CSCN 326	Database Design and Management	3	
CSCN 471	Software Engineering Management	3	
Lab Science Elect	tive *	4	
CSER		0	
	Hours	16	
Fourth Year			
First Semester		2	
THEO 201	Theology Survey I	2	
CSCN 408	Mobile Programming	3	
CSCN 434	Programming Language Design and Compiler Theory	3	
CSCN 443	Operating Systems Design	3	
CSCN 481	Computer Sciences Practicum I	3	
CSER		0	
	Hours	14	
Second Semester			
THEO 202	Theology Survey II	2	
Critical Thinking E		3	
Cultural Studies E		3	
CSCN 482	Computer Sciences Practicum II	3	
Technical Elective ⁵ 3			

Course	Title	Hours
CSER		0
	Hours	14
	Total Hours	120-123

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

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

³ Any 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)

⁴ Choose 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.

⁵ Choose 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.