

INFORMATION TECHNOLOGY (B.S.) - APPLICATION & DATABASE DEVELOPMENT - ONLINE

Important: This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. 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
	Communications Elective	3
	Information Literacy Elective	3
	Information Literacy Elective	3
Technological Solutions & Quantitative Reasoning ¹		
UNIV 104	Instructional Technology for Successful Online Learning	0-3
	Math Elective MATH 114 or higher	3
Critical Thinking ¹		
RLGN 104	Christian Life and Biblical Worldview ²	4
	Critical Thinking Elective	3
Civic & Global Engagement ¹		
	Cultural Studies Elective	3
Social & Scientific Inquiry ¹		
	Natural Science Elective	3
	Social Science Elective	3
Christianity & Contexts ¹		
BIBL 104	Survey of Old and New Testament	4
THEO 104	Introduction to Theology Survey ²	4
Total Hours		39-42

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

² Students 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

Major Requirements

Code	Title	Hours
Major Foundational Courses		
BUSI 201	Intermediate Business Computer Applications ¹	3
BUSI 230	Introduction to Probability and Statistics ¹	3
BUSI 240	Organizational Behavior & Management ¹	3
Total Hours		9

¹ Course may fulfill select general education requirements

Code	Title	Hours
Major Core		
BUSI 390	Business Common Professional Components	3
CSIS 100	Introduction to Information Sciences and Systems	3
CSIS 110	Introduction to Computer Science	3
CSIS 212	Object-Oriented Programming	3
CSIS 310	Web Programming	3
CSIS 312	Advanced Object- Oriented Programming	3
CSIS 320	IS Hardware and Software	3
CSIS 325	Database Management Systems	3
CSIS 330	Business Data Communication Systems	3
CSIS 340	Studies in Information Security	3
CSIS 352	System Administration	3
CSIS 354	Integrative Programming and Technologies	3
CSIS 375	Introduction to Human-Computer Interaction	3
CSIS 474	Enterprise Systems and Integration	3
CSIS 484	Information Technology Capstone	3
ECON 214	Principles of Macroeconomics	3
Total Hours		48

Code	Title	Hours
Cognate		
CSIS 209	C# Programming	3
CSIS 332	Database Programming	3
CSIS 333	Advanced Database Programming	3
CSIS 410	Web Enterprise Technologies	3
	or CSIS 499 Internship	
Total Hours		12

Code	Title	Hours
Free Electives		
	Choose 9-18 credit hours of Free Electives ¹	9-18
Total Hours		9-18

¹ Internship (maximum 6 hours) is strongly recommended

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 upper-level courses in the major
- 25% Of major 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

Course Sequence

Course	Title	Hours
First Year		
First Semester		
BIBL 104	Survey of Old and New Testament	4
ENGL 101	Composition and Rhetoric	3
UNIV 104	Instructional Technology for Successful Online Learning	0-3
Social Sciences Elective (BUSI 240) ¹		3
CSIS 100	Introduction to Information Systems and Information Technology	3
Hours		13-16
Second Semester		
BUSI 201	Intermediate Business Computer Applications	3
Communications Elective ¹		3
Information Literacy Elective ¹		3
Math Elective (BUSI 230) ¹		3
CSIS 110	Introduction to Computer Science	3
Hours		15
Second Year		
First Semester		
Information Literacy Elective ¹		3
THEO 104	Introduction to Theology Survey	4
CSIS 212	Object-Oriented Programming	3
CSIS 320	IS Hardware and Software	3
Elective		3
Hours		16
Second Semester		
RLGN 104	Christian Life and Biblical Worldview	4
Natural Science Elective ¹		3
CSIS 310	Web Programming	3
CSIS 312	Advanced Object- Oriented Programming	3
CSIS 330	Business Data Communication Systems	3
Hours		16
Third Year		
First Semester		
Critical Thinking Elective ¹		3
CSIS 209	C# Programming	3
CSIS 325	Database Management Systems	3
CSIS 352	System Administration	3
CSIS 340	Studies in Information Security	3
Hours		15
Second Semester		
Cultural Studies Elective ¹		3
CSIS 332	Database Programming	3
CSIS 354	Integrative Programming and Technologies	3
CSIS 375	Introduction to Human-Computer Interaction	3
Elective		3
Hours		15

Course	Title	Hours
Fourth Year		
First Semester		
CSIS 333	Advanced Database Programming	3
CSIS 410 or CSIS 499	Web Enterprise Technologies or Internship	3
CSIS 474	Enterprise Systems and Integration	3
ECON 214	Principles of Macroeconomics	3
Elective		3
Hours		15
Second Semester		
BUSI 390	Business Common Professional Components	3
CSIS 484	Information Technology Capstone	3
Elective		3
Elective		3
Elective		3
Hours		15
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