

Computer Science Endorsement Equivalency Guide

COMPETENCY	LU ONLINE Course Options	Available Courses from: Straighterline Study.com Sophia Learning InstantCert https://www.liberty.edu/online/transfer-partnerships/	Available College Level Exams: CLEP or DSST/Dantes *all exams are 3 credit hours each unless noted otherwise
Mathematics: (College Algebra or Higher)			
College Algebra or Higher	UG Level: MATH 121/ College Algebra MATH 122/Trigonometry MATH 126/Elem Calculus for Business & Science MATH 128/Elementary Functions & Coordinate Geometry MATH 131/Calculus & Analytic Geometry I MATH 132/Calculus & Analytic Geometry II MATH 201/Intro to Probability & Statistics MATH 211/Intro to Statistical Analysis MATH 217/Elementary Geometry Grad level: MATH 505/Funds of Modern Geometry MATH 510/Applied Linear Algebra MATH 520/Abstract Algebraic Systems MATH 530/Foundations of Multivariable Calculus *Any Math courses at College Algebra level or higher.	Straighterline: MAT 101/College Algebra MAT 150/Business Statistics MAT 202/Intro to Statistics MAT 201/Precalculus MAT 250/General Calculus I MAT 251/General Calculus II Study.com: Geometry 101/Intro to Geometry MATH 101/College Algebra Math 103/Precalculus MATH 104/Calculus MATH 105/Precalculus Algebra MATH 107/Quantative Mathematics Statistics 101/Principles of Statistics Sophia Learning: CA 1001/College Algebra STAT 1001/Intro to Statistics	CLEP Exams Accepted: College Algebra Pre-Calculus Calculus DSST Exams Accepted: Fund of College Algebra Principles of Statistics
Discrete Mathematics			
Discrete Math	UG Level: MATH 250/Intro to Discrete Mathematics MATH 350/Discrete Mathematics	Study.com: MATH 108/Discrete Mathematics	No exams are available for this section at this time
Data Structures & Algorithm Analysis			
Data Structures and Algorithm Analysis	UG Level: CSIS 215/Algorithms & Data Structures	Straighterline: IT 104/Database Administration Fundamentals Study.com: Analytics 103/Intro to Relational Databases & SQL Computer Science 201/Data Structures & Algorithms Computer Science 302/Systems Analysis & Design Computer Science 303/Database Management Computer Science 306/Computer Architecture Sophia Learning; CS 1011/Intro to Relational Databases	No exams are available for this section at this time

*If you wish to take courses at another institution, please email contentcompevals@liberty.edu for instructions and approval.

For our Transfer Partnerships, please visit our website at: <https://www.liberty.edu/online/transfer-partnerships/> . Please note, our partnerships update yearly and at times, these courses can change.

Foundations of Computer Science			
Intro to Computer Systems	UG Level: CSIS 110/Intro to Computer Science CSIS 200/Enterprise Business Application BUSI 201/Intermediate Business Computer Application CSIS 330/Business Data Communication Systems CSIS 331/Networks CSIS 335/Network Security CSCI 430/Advanced Networking & Communication Systems	Straighterline: IT 101/Information Technology Fundamentals IT 102/Software Development Fundamentals IT 103/Networking Fundamentals IT 151/Intro to Networking IT 150/Intro to Personal Computer Maintenance Study.com: Business 104/Information Systems & Computer Applications Computer Science 102/Funds of Information Technology Computer Science 103/Computer Concepts & Applications Computer Science 105/Intro to Operating Systems Computer Science 106/Intro to Linux Computer Science 107/Database Fundamentals Computer Science 108/Intro to Networking Computer Science 110/Intro to Cybersecurity Computer Science 202/Network & Security System Computer Science 203/Defensive Security Computer Science 220/Funds of Routing & Switching Computer Science 304/Network System Design Computer Science 305/Operating Systems Computer Science 307/Software Engineering Computer Science 310/Current Trends in Computer Science & IT Computer Science 311/Artificial Intelligence Computer Science 320/Digital Forensics Sophia Learning: CS 1001/Intro to Information Technology CS 1005/Intro to Web Development	CLEP Exams Accepted: Information Systems
Programming in at least two distinct languages (6 hours)			
Programming	UG Level: CSIS 208/Application Programming CSIS 209/ C+ Programming CSIS 212/Object-Oriented Programming CSIS 312/Advanced Object-Oriented Programming CSIS 315/Client-Side Programming CSIS 316/Server-Side Programming	Straighterline: CS 101/Intro to Programming Study.com: Computer Science 109/Intro to Programming Computer Science 111/Programming C Computer Science 112/Programming in C++ Computer Science 113/Programming in Python Computer Science 114/Programming in R Computer Science 115/Programming in Java Computer Science 204/Database Programming	No exams are available for this section at this time

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