



Transfer Guide

*For General Education course requirements please refer to the General Education Transfer Guide

Computer Science-Bachelor of Science

Lewis University

Triton College

Computer Science Core Courses			Computer Science Core Courses		
MATH 31000	Discrete Mathematics	4	CIS 125	Discrete Mathematics for Computing	
CPSC 20000	Introduction to Computer Science	3	CIS 121	Introduction to Programming	
CPSC 21000	Programming Fundamentals	3	CIS 255	C++ Programming	
CPSC 28100	Introduction to Networks	3	CIS 210	Data Comm & Networking Fundamentals	
CPSC 30000	Computer Organization	3	CIS 265	Computer Architecture & Assembly Language	
CPSC 34000	Algorithms and Data Structures	3	CIS 295	Data Structures with C++	
CPSC 35000	Operating Systems	3	CIS 276	Operating Systems Introduction	
No Declared Concentration			No Declared Concentration		
CPSC 24500	Object-Oriented Programming	3	CIS 263	Introduction to Object-Oriented Programming	
CPSC 46000	Programming Languages	3		<i>No Equivalency</i>	
MATH 24000	Applied Calculus	4	MAT 131	Calculus & Analytic Geometry I	
MATH 30700	Applied Linear Algebra	3	MAT 224	Linear Algebra	
CPSC 4XX00	Capstone Course A1 or B1	3		<i>No Equivalency</i>	
CPSC 4YY00	Capstone Course A2 or B2	3		<i>No Equivalency</i>	
	4 additional computer science courses 20000 or above			CIS courses at 200-level	
Game and Simulation Prog			Game and Simulation Prog		
CPSC 24500	Object-Oriented Programming	3	CIS 263	Intro to Object-Oriented Programming	
CPSC 41000	Video Game Programming I	3		<i>No Equivalency</i>	
CPSC 46000	Programming Languages	3		<i>No Equivalency</i>	
MATH 24000	Applied Calculus	4	MAT 131	Calculus & Analytic Geometry I	
MATH 30700	Applied Linear Algebra	3	MAT 224	Linear Algebra	
CPSC 4XX00	Capstone Course A1 or B1	3		<i>No Equivalency</i>	
CPSC 4YY00	Capstone Course A2 or B2	3		<i>No Equivalency</i>	
	Choose 3 of the following electives:			<i>No Equivalency</i>	
MATH 42500	Mathematical Modeling	3		<i>No Equivalency</i>	
CPSC 31500	Scientific Computing	3		<i>No Equivalency</i>	
CPSC 41500	Video Game Programming II	3		<i>No Equivalency</i>	
CPSC 41700	Mobile Application Development	3	CIS 200	Android Application Development II	
CPSC 43000	Computer Graphics	3		<i>No Equivalency</i>	
CPSC 47000	Artificial Intelligence	3		<i>No Equivalency</i>	
Cyber Security Operations			Cyber Security Operations		
CPSC 22000	Introduction to Unix	3	CIS 177	Introduction to Linux	
CPSC 28000	Packet Tracer	1		<i>No Equivalency</i>	
CPSC 35500	Cloud Computing & Virtualization	3	CIS 277	Cloud Computing Architecture and Projects	
CPSC 36000	Applied Programming Languages	3		<i>No Equivalency</i>	
CPSC 42000	Computer Security	3	CIS 220	Introduction to Application Security	
CPSC 42100	Computer Security II	3	CIS 226	Advanced Network Security	
CPSC 42500	Encryption	3		<i>No Equivalency</i>	
CPSC 42700	Programming for Pen Testing	3		<i>No Equivalency</i>	
CPSC 48500	Advanced Comm & Networking	3		<i>No Equivalency</i>	
CPSC 49300	Computer Infrastructure Capstone	3		<i>No Equivalency</i>	
	Choose 1 of the following electives			<i>No Equivalency</i>	
CPSC 25000	File Systems and Digital Forensics	3	CIS 240	Advanced Computer Forensics	
CPSC 33000	Database Systems	3	CIS 278	Database Management Systems	
CPSC 42300	Cyber Security & Forensics Tools	3	CIS 227	Vulnerability Analysis and Ethical Hacking	
CPSC 42800	Programming for Digital Forensics	3		<i>No Equivalency</i>	
Software Engineering			Software Engineering		
CPSC 24500	Object-Oriented Programming	3	CIS 263	Introduction to Object-Oriented Programming	

CPSC 33000	Database Systems	3	CIS 278	Database Management Systems
CPSC 41700	Mobile Application Development	3	CIS 200	Android Application Development II <i>No Equivalency</i>
CPSC 46000	Programming Languages	3		
MATH 24000	Applied Calculus	4	MAT 131	Calculus & Analytic Geometry I
MATH 30700	Applied Linear Algebra	3	MAT 224	Linear Algebra <i>No Equivalency</i>
CPSC 44000	Software Engineering	3		<i>No Equivalency</i>
CPSC 49200	Software Systems Capstone	3		<i>No Equivalency</i>
Choose 2 of the following electives:				
CPSC 23000	Visual Basic	3	CIS 250	Visual Basic Programmin <i>No Equivalency</i>
CPSC 23500	Programming for Data Analysis	3		
CPSC 24700	Web & Distributed Programming	3	CIS 192	Server-Side Programming
CPSC 35500	Cloud Computing & Virtualization	3	CIS 277	Cloud Computing Architecture and Projects <i>No Equivalency</i>
CPSC 36000	Applied Programming Languages	3		
CPSC 47200	Introduction to Data Mining	3		<i>No Equivalency</i>

Data Science

Data Science

CPSC 24500	Object-Oriented Programming	3	CIS 263	Introduction to Object-Oriented Programming
CPSC 33000	Database Systems	3	CIS 278	Database Management Systems <i>No Equivalency</i>
CPSC 47000	Artificial Intelligence	3		<i>No Equivalency</i>
CPSC 47200	Introduction to Data Mining	3		
MATH 24000	Applied Calculus	4	MAT 131	Calculus & Analytic Geometry I
MATH 30700	Applied Linear Algebra	3	MAT 224	Linear Algebra <i>No Equivalency</i>
MATH 31400	Applied Probability & Statistics	3		<i>No Equivalency</i>
CPSC 44000	Software Engineering	3		<i>No Equivalency</i>
CPSC 49200	Software Engineering Capstone	3		<i>No Equivalency</i>
Choose 1 of the following electives				
CPSC 23500	Programming for Data Analysis	3	CIS 215	Data Science Application Development <i>No Equivalency</i>
CPSC 31500	Scientific Computing	3		
CPSC 35500	Cloud Computing & Virtualization	3	CIS 277	Cloud Computing Architecture and Projects <i>No Equivalency</i>
CPSC 47100	Machine Learning	3		

Networking

Networking

CPSC 22000	Introduction to Unix	3	CIS 177	Introduction to Linux <i>No Equivalency</i>
CPSC 28000	Packet Tracer	1		
CPSC 28200	Routing and Switching Essentials	3	CIS 212	Internetworking, Routing, and Switching
CPSC 28300	Scaling Networks	3	CIS 214	Scaling and Connecting Networks <i>No Equivalency</i>
CPSC 28400	Connecting Networks	3		
CPSC 42000	Computer Security	3	CIS 220	Introduction to Application Security <i>No Equivalency</i>
CPSC 48500	Advanced Comm & Networking	3		<i>No Equivalency</i>
CPSC 49300	Computer Infrastructure Capstone	3		<i>No Equivalency</i>
Choose 1 of these programming courses:				
CPSC 24500	Object-Oriented Programming	3	CIS 263	Introduction to Object-Oriented Programming
CPSC 24700	Web & Distributed Programming	3	CIS 192	Server-Side Programming <i>No Equivalency</i>
Choose 2 of the following electives:				
CPSC 25000	File Systems and Digital Forensics	3	CIS 240	Advanced Computer Forensics
CPSC 33000	Database Systems	3	CIS 278	Database Management Systems
CPSC 42100	Computer Security II	3	CIS 226	Advanced Network Security
CPSC 42300	Cyber Security & Forensics Tools	3	CIS 227	Vulnerability Analysis and Ethical Hacking <i>No Equivalency</i>
CPSC 42500	Encryption	3		<i>No Equivalency</i>
CPSC 42700	Programming for Pen Testing	3		<i>No Equivalency</i>
CPSC 42800	Programming for Digital Forensics	3		<i>No Equivalency</i>

Digital Forensics

Digital Forensics

CPSC 22000	Introduction to Unix	3	CIS 177	Introduction to Linux
CPSC 25000	File Systems and Digital Forensics	3	CIS 240	Advanced Computer Forensics <i>No Equivalency</i>
CPSC 28000	Packet Tracer	1		
CPSC 42000	Computer Security	3	CIS 220	Introduction to Network Security <i>No Equivalency</i>
CPSC 42500	Encryption	3		<i>No Equivalency</i>
CPSC 42800	Programming for Digital Forensics	3		<i>No Equivalency</i>
CPSC 48000	Client-Server Communications	3	CIS 174	Windows Client-Server System Admin <i>No Equivalency</i>
CPSC 48500	Advanced Comm & Networking	3		<i>No Equivalency</i>
CPSC 49300	Computer Infrastructure Capstone	3		<i>No Equivalency</i>

Choose 2 of the following electives:				<i>No Equivalency</i>
CPSC 35500	Cloud Computing & Virtualization	3	CIS 277	Cloud Computing Architecture and Projects
CPSC 42300	Cyber Security & Forensics Tools	3	CIS 227	Vulnerability Analysis and Ethical Hacking
CPSC 42700	Programming for Pen Testing	3		<i>No Equivalency</i>
CPSC 47200	Introduction to Data Mining	3		<i>No Equivalency</i>

Computational Theory			Computational Theory		
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CPSC 24500	Object-Oriented Programming	3	CIS 263	Introduction to Object-Oriented Programming
CPSC 46000	Programming Languages	3		<i>No Equivalency</i>
MATH 24000	Applied Calculus	4	MAT 131	Calculus & Analytic Geometry I
MATH 30700	Applied Linear Algebra	3	MAT 224	Linear Algebra
CPSC 44000	Software Engineering	3		<i>No Equivalency</i>
CPSC 49200	Software Systems Capstone	3		<i>No Equivalency</i>

Choose 1 of the following Mathematics courses:				
MATH 31400	Applied Probability & Statistics	3		<i>No Equivalency</i>
MATH 31500	Probability Theory	3		<i>No Equivalency</i>
MATH 35000	Numerical Analysis	3		<i>No Equivalency</i>
MATH 42500	Mathematical Modeling	3		<i>No Equivalency</i>

Choose 3 of the following electives:				
CPSC 23500	Programming for Data Analysis	3	CIS 215	Data Science Application Development
CPSC 31500	Scientific Computing	3		<i>No Equivalency</i>
CPSC 35500	Cloud Computing & Virtualization	3	CIS 277	Cloud Computing Architecture and Projects
CPSC 47000	Artificial Intelligence	3		<i>No Equivalency</i>
CPSC 47100	Machine Learning	3		<i>No Equivalency</i>
CPSC 47200	Introduction to Data Mining	3		<i>No Equivalency</i>
CPSC 49000	Compiler Construction	3		<i>No Equivalency</i>

Capstone Options		Capstone Options		
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Capstone A1	CPSC 44000: Software Engineering			<i>No Equivalency</i>
Capstone A2	CPSC 49200: Software Systems Capstone			<i>No Equivalency</i>
Capstone B1	CPSC 48500: Advanced Comm & Netwk			<i>No Equivalency</i>
Capstone B2	CPSC 49300: Comp Infr. Capstone			<i>No Equivalency</i>