

CSE Long-Term Schedule Plan

Legend:

x = course offered in-person

l = course offered online

F = course offered in Frisco

Courses	Fall		Spring		Summer
	Even Years	Odd Years	Even Years	Odd Years	
CSCE 1010 - Discovering Computer Science	x	x			
CSCE 1020 - Program Development					
CSCE 1030 - Computer Science I	x F	x F	x	x	x
CSCE 1035 - Computer Programming I	x	x	x	x	
CSCE 1040 - Computer Science II	x	x	x F	x F	x
CSCE 1045 - Computer Programming II	x	x	x	x	
CSCE 2100 - Foundations of Computing	x F	x F	x	x	x
CSCE 2110 - Foundations of Data Structures	x F	x F	x	x	x
CSCE 2610 - Assembly Language and Computer Organization	x	x	x F	x F	x
CSCE 2900 - Special Problems in Computer Science and Engineering					
CSCE 2996 - Honors College Mentored Research Experience					
CSCE 3010 - Signals and Systems	x	x			
CSCE 3020 - Communications Systems			x	x	
CSCE 3030 - Parallel Programming					
CSCE 3055 - IT Project Management	x l	x l	x F	x F	
CSCE 3110 - Data Structures and Algorithms	x	x	x F	x F	x
CSCE 3201 - Applied Artificial Intelligence					
CSCE 3210 - Symbolic Processing					
CSCE 3214 - Software Development for Artificial Intelligence					
CSCE 3220 - Human Computer Interfaces	x l	x l	x F	x F	
CSCE 3410 - Advanced Programming					
CSCE 3420 - Internet Programming	x l	x l	x F	x F	
CSCE 3444 - Software Engineering	x	x	x F	x F	x
CSCE 3450 - Global Software Development					
CSCE 3520 - Data Communications					
CSCE 3530 - Introduction to Computer Networks	x l	x l	x F	x F	
CSCE 3550 - Foundations of Cybersecurity	x F	x F	x l	x l	
CSCE 3560 - Computer Systems Security			x	x	
CSCE 3600 - Principles of Systems Programming	x l	x l	x F	x F	
CSCE 3605 - Systems Administration	x F	x F	x l	x l	
CSCE 3610 - Introduction to Computer Architecture					
CSCE 3612 - Embedded Systems Design			x	x	
CSCE 3615 - Enterprise Systems Architecture and Design	x F	x F	x l	x l	
CSCE 3730 - Reconfigurable Logic	x	x			
CSCE 3850 - Introduction to Computational Life Science					
CSCE 3996 - Honors College Mentored Research Experience					
CSCE 4010 - Social Issues in Computing	x F	x F	x l	x l	x
CSCE 4011 - Engineering Ethics	x	x	x	x	
CSCE 4050 - Applications of Cryptography			x	x	
CSCE 4110 - Algorithms	x F	x F	x	x	x
CSCE 4115 - Formal Languages, Automata and Computability	x	x			
CSCE 4160 - Parallel Programming					
CSCE 4200 - Web Search and Information Retrieval	x	x			
CSCE 4201 - Introduction to Artificial Intelligence	x F		x	x	
CSCE 4205 - Introduction to Machine Learning	x	x	x	x	
CSCE 4210 - Game Programming I	x	x			
CSCE 4220 - Game Programming II			x	x	
CSCE 4230 - Introduction to Computer Graphics					x F
CSCE 4240 - Introduction to Digital Image Processing		x F	x	x	
CSCE 4250 - Topics in Game Development			x	x	
CSCE 4255 - Programming Math and Physics for Games	x	x			
CSCE 4290 - Introduction to Natural Language Processing	x	x			
CSCE 4300 - Intro to Big Data and Data Science					
CSCE 4350 - Fundamentals of Database Systems	x F	x F	x l	x l	x
CSCE 4355 - Database Administration	x l	x l	x F	x F	
CSCE 4357 - Database Systems Security			x	x	

CSCE 4380 - Data Mining			x	x	
CSCE 4430 - Programming Languages	x	x	x F	x F	
CSCE 4440 - Real-Time Software Development					
CSCE 4460 - Software Testing and Empirical Methodologies			x	x	
CSCE 4510 - Introduction to Wireless Communications					
CSCE 4520 - Wireless Networks and Protocols	x	x			
CSCE 4530 - Computer Network Design					
CSCE 4535 - Introduction to Network Administration	x I	x I	x	x F	
CSCE 4540 - TCP/IP Protocols					
CSCE 4555 - Computer Forensics	x	x			
CSCE 4560 - Secure Electronic Commerce			x	x	
CSCE 4565 - Secure Software Systems	x	x			
CSCE 4570 - Information Privacy	x	x			
CSCE 4575 - Blockchain and Applications	x	x			
CSCE 4600 - Introduction to Operating Systems	x F	x F	x	x	
CSCE 4610 - Computer Architecture			x	x	
CSCE 4620 - Real-Time Operating Systems	x	x			
CSCE 4650 - Introduction to Compilation Techniques			x	x	
CSCE 4655 - Principles of Compiler Optimization					
CSCE 4665 - Usability Testing in Software Engineering			x F		
CSCE 4730 - VLSI Design	x	x			
CSCE 4750 - VLSI Testing					
CSCE 4810 - Biocomputing	x	x			
CSCE 4820 - Computational Epidemiology				x	
CSCE 4890 - Directed Study					
CSCE 4901 - Software Development Capstone I	x	x	x F	x F	
CSCE 4902 - Software Development Capstone II	x F	x F	x	x	
CSCE 4905 - Information Technology Capstone I	x	x I	x F	x F	
CSCE 4907 - Cybersecurity Capstone I	x	x			
CSCE 4910 - Computer Engineering Design I	x	x			
CSCE 4915 - Computer Engineering Design II			x	x	
CSCE 4920 - Cooperative Education in Computer Science and Engineering	x	x	x	x	x
CSCE 4925 - Information Technology Capstone II	x F	x F	x I	x	
CSCE 4927 - Cybersecurity Capstone II			x	x	
CSCE 4930 - Topics in Computer Science and Engineering					
CSCE 4940 - Special Computer Application Problem					
CSCE 4950 - Special Problems in Computer Science and Engineering					
CSCE 4951 - Honors College Capstone Thesis					
CSCE 4999 - Senior Thesis					
CSCE 5050 - Applications of Cryptography			x	x	
CSCE 5100 - Theory of Computation					
CSCE 5150 - Analysis of Computer Algorithms	x	x	x	x	
CSCE 5160 - Parallel Processing and Algorithms			x	x	
CSCE 5170 - Graph Theory			x	x	
CSCE 5200 - Information Retrieval and Web Search	x	x			
CSCE 5210 - Fundamentals of Artificial Intelligence	x	x	x	x	
CSCE 5213 - Modeling and Simulation					
CSCE 5214 - Software Development for Artificial Intelligence	x	x	x	x	
CSCE 5215 - Machine Learning	x	x	x	x	x
CSCE 5216 - Pattern Recognition					
CSCE 5218 - Deep Learning	x	x	x	x	
CSCE 5220 - Computer Graphics					
CSCE 5222 - Feature Engineering	x	x			
CSCE 5225 - Digital Image Processing			x	x	
CSCE 5230 - Methods of Numerical Computations			x	x	
CSCE 5250 - Introduction to Game Programming	x	x			
CSCE 5255 - Programming Math and Physics for Games	x	x			
CSCE 5260 - 3D Game Programming			x	x	
CSCE 5265 - Advanced Topics in Game Development	x	x			
CSCE 5266 - Game Programming Project 1					
CSCE 5267 - Game Programming Project 2					
CSCE 5270 - Computer-Human Interfaces		x			
CSCE 5280 - AI for Wearables and Healthcare	x	x			
CSCE 5290 - Natural Language Processing	x	x	x	x	
CSCE 5300 - Introduction to Big Data and Data Science	x	x	x	x	x

CSCSE 5310 - Methods in Empirical Analysis	x	x	x	x	x
CSCSE 5320 - Scientific Data Visualization			x	x	
CSCSE 5350 - Fundamentals of Database Systems	x	x	x	x	
CSCSE 5360 - Implementations and Practices of Database Systems					
CSCSE 5370 - Distributed and Parallel Database Systems			x	x	
CSCSE 5380 - Data Mining			x	x	
CSCSE 5390 - Multimedia Computing	x	x			
CSCSE 5400 - Formal Languages, Automata and Computability	x	x			
CSCSE 5411 - Non-Numeric Programming					
CSCSE 5412 - Foundations of Logic Programming					
CSCSE 5420 - Software Development					
CSCSE 5430 - Software Engineering	x	x	x	x	x
CSCSE 5440 - Real-Time Software Development			x	x	
CSCSE 5450 - Programming Languages			x	x	
CSCSE 5460 - Software Testing and Empirical Methodologies			x	x	
CSCSE 5465 - Usability Testing in Software Engineering			x	x	x I
CSCSE 5510 - Wireless Communications					
CSCSE 5520 - Wireless Networks and Protocols			x	x	
CSCSE 5530 - Computer Network Design					
CSCSE 5540 - Introduction to Sensor Networks					
CSCSE 5550 - Introduction to Computer Security	x	x	x	x	
CSCSE 5552 - Cybersecurity Essentials	x	x	x	x	
CSCSE 5555 - Computer Forensics	x	x	x	x	
CSCSE 5560 - Secure Electronic Commerce			x	x	
CSCSE 5562 - Cloud Security					
CSCSE 5565 - Secure Software Systems			x	x	
CSCSE 5575 - Blockchain and applications	x	x			
CSCSE 5580 - Computer Networks	x	x	x	x	
CSCSE 5585 - Advanced Network Security	x	x			
CSCSE 5610 - Computer System Architecture			x	x	
CSCSE 5612 - Embedded Hardware/Software Design			x	x	
CSCSE 5615 - Networks-on-Chip			x		
CSCSE 5620 - Real-Time Operating Systems	x	x			
CSCSE 5640 - Operating System Design	x	x			
CSCSE 5650 - Compiler Design			x	x	
CSCSE 5655 - Principles of Compiler Optimization					
CSCSE 5680 - Distributed Systems					
CSCSE 5730 - Digital CMOS VLSI Design	x	x			
CSCSE 5740 - Topics in Modern Electronic System Design			x	x	
CSCSE 5760 - Design for Fault Tolerance			x	x	
CSCSE 5810 - Biocomputing	x	x			
CSCSE 5820 - Computational Epidemiology			x	x	
CSCSE 5900 - Special Problems					
CSCSE 5932 - Internship	x	x	x	x	x
CSCSE 5933 - Topics in Computer Science and Engineering					
CSCSE 5934 - Directed Study					
CSCSE 5950 - Master's Thesis					
CSCSE 6050 - Advanced Topics in Cryptography					
CSCSE 6213 - Advanced Topics in Modeling and Simulation					
CSCSE 6260 - Advanced Topics in Pattern Recognition and Image Processing					
CSCSE 6270 - Advanced Topics in Human-Computer Interaction Research	x				
CSCSE 6280 - Advanced Topics in Artificial Intelligence					
CSCSE 6290 - Advanced Topics in Human/Machine Intelligence					
CSCSE 6350 - Advanced Topics in Database Systems					
CSCSE 6370 - Advanced Topics in Multimedia Database Systems					
CSCSE 6420 - Advanced Topics in Software Engineering				x	
CSCSE 6450 - Advanced Topics in Programming Languages					
CSCSE 6581 - Advanced Topics in Computer Networks		x			
CSCSE 6585 - Advanced Topics in Network Security	x				
CSCSE 6590 - Advanced Topics in Wireless Communications and Networks					
CSCSE 6610 - Advanced Topics in Computer Architecture					
CSCSE 6620 - Advanced Topics in Real-Time Operating Systems					
CSCSE 6640 - Advanced Topics in Operating Systems					
CSCSE 6650 - Advanced Topics in Compiler Techniques					
CSCSE 6731 - Advanced Topics in VLSI Systems					

CSCSE 6810 - Advanced Topics in Computational Life Science			x		
CSCSE 6900 - Special Problems					
CSCSE 6933 - Advanced Topics in Computer Science and Engineering					
CSCSE 6940 - Individual Research					
CSCSE 6950 - Doctoral Dissertation					