

Core Requirements: 9 credits

Select three of the following:

COMP-SCI 5520 Network Architecture
COMP-SCI 5531 Advanced Operating Systems
COMP-SCI 5551 Advanced Software Engineering
COMP-SCI 5565 Introduction to Statistical Learning
COMP-SCI 5592 Design & Analysis of Algorithms

Emphasis Requirements: 21 credits

Cybersecurity Emphasis

COMP-SCI 5520 Network Architecture
COMP-SCI 5531 Advanced Operating Systems
COMP-SCI 5573 Information Security & Assurance
COMP-SCI 5596A Computer Security I: Cryptology
COMP-SCI 5596B Computer Security II: Applications
COMP-SCI 5590 Special Topics

Data Science Emphasis

COMP-SCI 5525 Cloud Computing
COMP-SCI 5530 Principles of Data Science
COMP-SCI 5540 Principles of Big Data Management
COMP-SCI 5542 Big Data Analytics and Applications
COMP-SCI 5560 Knowledge Discovery & Management
COMP-SCI 5565 Introduction to Statistical Learning
COMP-SCI 5596A Computer Security I: Cryptology
COMP-SCI 5596B Computer Security II: Applications
COMP-SCI 5590 Special Topics

Networking & Telecommunications Emphasis

COMP-SCI 5525 Cloud Computing
COMP-SCI 5567 Deep Learning
COMP-SCI 5576 Blockchain Technologies
COMP-SCI 5578 Multimedia Communication
COMP-SCI 5596A Computer Security I: Cryptology
COMP-SCI 5596B Computer Security II: Applications
COMP-SCI 5590 Special Topics
CSEE 5111 Network Architecture II
E&C-ENGR 5570 Principles of Digital Communication Systems

Software Engineering & System Emphasis

COMP-SCI 5531 Advanced Operating Systems
COMP-SCI 5546 Distributed Computing Systems
COMP-SCI 5551 Advanced Software Engineering
COMP-SCI 5552A Formal Software Specification
COMP-SCI 5559 Parallel Algorithms
COMP-SCI 5560 Knowledge Discovery & Management
COMP-SCI 5590 Special Topics

Courses offered are subject to instructor availability and student interest. Additional courses may be available.