

**Master of Science in Computer Science Security of Computer Systems & Networks
- Thesis Track**

FOUNDATION REQUIREMENTS: 15 Credits* **Credits**

CS-501B: Program Development	3.0
CS-502: Theoretical Foundations of Computer Science	3.0
CS-503: Data Structures and Algorithms	3.0
CS-505: Operating Systems Concepts	3.0
CS-509: Advanced Object-Oriented Programming and Design	3.0

PROGRAM REQUIREMENTS: 30 Credits **Credits**

CS-512: Algorithm Design	3.0
CS-514: Networks	3.0
CS-517: Database Design and Management	3.0
CS-518: Fundamentals of Computer Security and Cryptography	3.0
CS-520: Introduction to Intelligent Systems	3.0
CS-628: Security of E-Systems and Networks	3.0
Choose 3 credits from the following courses:	3.0
CS-525: Simulation	
CS-526: Performance Evaluation	
CS-528: Database and Transactions Security	
CS-533: Database System Implementation	
CS-537: Client-Server Interfaces	
CS-550: Computer System Architecture	
CS-551: Parallel Processing	
CS-635: Wireless Network Systems and Security	
Guided Elective:	3.0
Take 3 credits from CS-511 or higher	
CS-691: Computer Science Thesis I	3.0
CS-692: Computer Science Thesis II	3.0

**Total Credits for Master of Science in Computer Science Security of Computer Systems & Networks
- Thesis Track = 45.0**

*Up to 15 credits may be waived up on evaluation of prior academic preparation