

Schedule and course listings subject to change

Spring 2022 Graduate Category A Courses

- CSCI 5573 Operating Systems, Ra
- CSCI 5593 Advanced Computer Architecture, Alaghband

Spring 2022 Graduate Category B Courses

- CSCI 5110 Applied Number Theory, Gethner
- CSCI 5211 Mobile Computing & Programming, Lakhani
- CSCI 5408 Applied Graph Theory, Gethner
- CSCI 5565 Intro to Computer Graphics, Choi
- CSCI 5575 Cyber-Physical Systems, He
- CSCI 5580 Data Science, Banaei-Kashani
- CSCI 5733 Introduction to Emerging System Security, Li
- CSCI 5742 Cybersecurity Programming, Jafarian
 - Required for the Cyber Security and Defense Certificate
- CSCI 5800-001 Computational Motor Control, Al Borno
- CSCI 5866 Advanced Mobile and Ubiquitous Systems, Li
- CSCI 5931 Deep Learning, Biswas

Spring 2022 Graduate Category C Courses

- CSCI 5011 Software Project Management Support, Williams
 - Required for the Software Engineering Certificate

Spring 2022 Courses to Satisfy MS Course Project

- CSCI 5211 Mobile Computing & Programming, Lakhani
- CSCI 5565 Intro to Computer Graphics, Choi
- CSCI 5575 Cyber-Physical Systems, He
- CSCI 5580 Data Science, Banaei-Kashani
- CSCI 5733 Introduction to Emerging System Security, Li
- CSCI 5742 Cybersecurity Programming, Jafarian
- CSCI 5800-001 Computational Motor Control, Al Borno
- CSCI 5866 Advanced Mobile and Ubiquitous Systems, Li
- CSCI 5931 Deep Learning, Biswas

Spring 2022 Special Topics Course Descriptions

CSCI 5800-001 Computational Motor Control, Al Borno

This course introduces techniques for the modeling, simulation and control of movement. These techniques come from computer graphics, robotics and machine learning. The topics that we will cover include robot modeling, trajectory optimization, feedback control, deep reinforcement learning, the neuroscience of movement, and neural network models of the brain. At the end of the course, students will learn how train control policies for virtual agents in computer animation or robotics applications. Students will complete a course project.