

CSCI-MS
Selected Curriculum for

Cybersecurity Advising Sheet

The Department of Computer Science and Engineering offers **two** Master's Degree options:

Option "A"

Thesis Option with 30 hours (24 semester credit hours of coursework and 6 semester credit hours of thesis). Leveling and internship courses cannot be counted toward the degree plan hours.

Option "B"

Course Option with 33 semester credit hours. Leveling and internship courses cannot be counted toward the degree plan hours.

Course Selection:

All Master's students in Cybersecurity must take the six required courses listed below and five electives with a grade of B or better. The electives and areas of specialization are selected in consultation with the student's advisor.

Required Courses

<input type="checkbox"/>	CSCE 5050	Application of Cryptography	3 sch
<input type="checkbox"/>	CSCE 5550	Introduction to Computer Security	3 sch
<input type="checkbox"/>	CSCE 5555	Computer Forensics	3 sch
<input type="checkbox"/>	CSCE 5560	Secure Electronic Commerce	3 sch
<input type="checkbox"/>	CSCE 5565	Secure Software Engineering	3 sch
<input type="checkbox"/>	CSCE 5585	Advanced Network Security	3 sch

Electives

Students also will take 15 semester hours taken from the approved list of prescribed electives below. No more than 3 hours in non-organized courses (such as directed study or special problems) will be permissible. Students will be permitted up to 2 Internship courses (max 2 SCH) on their degree plan.

<input type="checkbox"/>	CSCE 5170	Graph Theory	3 sch
<input type="checkbox"/>	CSCE 5210	Artificial Intelligence	3 sch
<input type="checkbox"/>	CSCE 5215	Machine Learning	3 sch
<input type="checkbox"/>	CSCE 5216	Pattern Recognition	3 sch
<input type="checkbox"/>	CSCE 5290	Natural Language Processing	3 sch
<input type="checkbox"/>	CSCE 5300	Introduction to Big Data and Data Science	3 sch

Major Professors Comments/Suggestions:

* To continue in good standing, a student must maintain a 3.0 GPA overall.

*Only one (1) unorganized course (not less than 3 sch), and up to two (2) internship courses (max 2 sch each) may be placed on the MS degree plan.