

**MS – CYBERSECURITY WORKSHEET (30 CRS)**

Name:	E-Mail:
ID:	Phone:

**BRIDGE COURSES** (9 Credits, Waivable)

*Students' transcripts will be evaluated upon enrollment to determine if any of the three bridge courses are needed.*

Courses:		Credits	Semester	Grade
CS601C	Computational Statistics	3		
IS612	Introduction to Coding	3		
IS632 or IS656	Business Telecommunications or Networks: Routing & Switching	3		

**CORE REQUIREMENTS** (15 Credits)

Courses:		Credits	Semester	Grade
CYB611	Introduction to Cybersecurity	3		
CYB613	Operating Systems: Theory and Administration	3		
CYB621	Information Security Management	3		
CYB623	Network Security and Defense	3		
CYB625	Ethical Hacking and Penetration Testing	3		

**ELECTIVES** (3-12 Credits)

*Students may select elective courses from the list at the end of the document or any other relevant courses. In addition, students should work with their academic advisor to select individual courses from the current academic schedule to take as electives, provided the prerequisites have been met. Students can also select electives to satisfy either one of the concentrations below.*

General Concentration:		Credits	Semester	Grade
	(elective)	3		
	(elective)	3		
	(elective)	3		
	(elective)	3		

Cyber Operation Concentration:		Credits	Semester	Grade
IT670	Mobile Forensics	3		
CS608	Algorithms and Computing Theory	3		
CYB633	Malware Analysis and Reverse Engineering	3		

	(elective)	3		
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<b>Cybersecurity Leadership Concentration:</b>		<b>Credits</b>	<b>Semester</b>	<b>Grade</b>
IS642	Information Security Planning and Policy	3		
IS643	Information Security Auditing and Risk Management	3		
IS644	Business Continuity and Disaster Recovery Planning	3		
	(elective)	3		

**CAPSTONE COURSE** (3 credits)

*Students may take the capstone course at the last semester.*

<b>Required:</b>		<b>Credits</b>	<b>Semester</b>	<b>Grade</b>
CYB691	Cybersecurity Capstone Project	3		

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**Total Credits     30**

Academic Advisor/Date: \_\_\_\_\_

**Cybersecurity Elective Courses** (12 credits)

IT670	Mobile Forensics	3 credits
CS608	Algorithms and Computing Theory	3 credits
CYB633	Malware Analysis and Reverse Engineering	3 credits
IS642	Information Security Planning and Policy	3 credits
IS643	Information Security Auditing and Risk Management	3 credits
IS644	Business Continuity and Disaster Recovery Planning	3 credits
CYB631	Automating Information Security with Python and Shell Scripting	3 credits
CYB651	Cyber Intelligence Analysis and Modeling	3 credits
IT662	Web and Application Security	3 credits
IT664	Computer Forensics	3 credits
IS647	Legal Issues in Information Systems	3 credits
IS613	Database Management Systems	3 credits
IS665	Data Warehousing, Data Mining and Visualization	3 credits
IS678	Location Analytics and Web GIS	3 credits
CS610	Introduction to Parallel and Distributed Computing	3 credits
CRJ601	Introduction to Homeland Security	3 credits
CRJ604	U.S. Constitution and Ethical Issues	3 credits