

# CYBERSECURITY (MS)

## Program of Study

The Master of Science in Cybersecurity program requires students to complete 30 hours of computer science coursework and the exit course CYBR 6000 [Graduate Exit Examination](#). The students must select one of the following two concentrations:

1. Cyber Defense
2. Management

## Cyber Defense

Code	Title	Credit Hours
<b>Area 1 Program Core</b>		
CYBR 6126	Introduction to Cybersecurity	3
CYBR 6136	Human Aspects of Cybersecurity	3
CPSC 6157	Network and Cloud Management	3
CYBR 6167	Cybersecurity Risk Management	3
Area 1 Total		12
<b>Area 2 Program Concentration</b>		
CPSC 6125	Operating Systems Design and Implementation	3
CYBR 6128	Network Security	3
CYBR 6159	Digital Forensics	3
CYBR 6226	Cloud Computing Security	3
Area 2 Total		12
<b>Area 3 Program Electives</b>		
Select either of the following options:		
6 credits of 6000-level CPSC or CYBR courses (including an internship) <sup>1</sup>		
6 credits of Capstone (CYBR 6299)		
6 credits of Thesis (CYBR 6985 and CYBR 6986)		
Area 3 Total		6
<b>Area 4: Graduate Exit Examination</b>		
CYBR 6000	Graduate Exit Examination in Cybersecurity <sup>2</sup>	0
Total Credit Hours		30

<sup>1</sup> With the exception of CPSC 6105 Fundamental Principles of Computer Science, CPSC 6103 Computer Science Principles for Teachers, and CPSC 6106 Fundamentals of Computer Programming and Data Structures.

<sup>2</sup> Graduating students must successfully complete CYBR 6000 Graduate Exit Examination which will require the student to complete an exit survey, an exit interview, and a comprehensive exam.

## Management

Code	Title	Credit Hours
<b>Area 1 Program Core</b>		
CYBR 6126	Introduction to Cybersecurity	3
CYBR 6136	Human Aspects of Cybersecurity	3
CPSC 6157	Network and Cloud Management	3
CYBR 6167	Cybersecurity Risk Management	3

Area 1 Total		12
<b>Area 2 Program Concentration</b>		
CYBR 6222	Foundation of Cybersecurity Policy and Management	3
CYBR 6228	Global Cybersecurity	3
MSOL 6115	Organizational Behavior and Leadership	3
Choose one of		3
MSOL 6155	Strategic Leadership and Change Management	
MSOL 6165	Organizational Ethics and Values	
Area 2 Total		12
<b>Area 3 Program Electives</b>		
Select either of the following options:		
6 credits of 6000-level CPSC or CYBR courses (including an internship) <sup>1</sup>		
6 credits of Capstone (CYBR 6299)		
6 credits of Thesis (CYBR 6985 and CYBR 6986)		
Area 3 Total		6
<b>Area 4: Graduate Exit Examination</b>		
CYBR 6000	Graduate Exit Examination in Cybersecurity <sup>2</sup>	0
Total Credit Hours		30

<sup>1</sup> With the exception of CPSC 6105 Fundamental Principles of Computer Science, CPSC 6103 Computer Science Principles for Teachers, and CPSC 6106 Fundamentals of Computer Programming and Data Structures.

<sup>2</sup> Graduating students must successfully complete CYBR 6000 Graduate Exit Examination which will require the student to complete an exit survey, an exit interview and a comprehensive exam.