

Northern Michigan University's Information Assurance/Cyber Defense  
**Master of Science in Cybersecurity**



or

This program plan outlines how students can apply their Northern Michigan University's Information Assurance/Cyber Defense Major to Excelsior University's M.S. in Cybersecurity degree program.

*This guide is only a sample scenario. Excelsior University reviews every student individually. Actual requirements will be dependent on the courses a student transfers and the application date with Excelsior.*

**Revision: February 2022**

Northern Michigan University - Information Assurance/Cyber Defense Major Requirements		Semester Hours
EN 111: College Composition I		4
MA 109: Introduction to Probability and Statistics		4
Communication Elective		4
Other General Education Course as Required		15 to 20
CIS 100: Computer Concepts in Modern Society		4
IS 116: Cybersecurity Fundamentals		4
CIS 226: Introduction to Networks and Security		4
CS 202: Python		4
IS 236: Cybersecurity Foundations		4
CIS 250: Systems Analysis and Design		4
Elective (CIS 440: Management Information Systems recommended*)		4
CIS 464: Database Management Systems*		4
MGT 336: Cyber Law		4
CS 302 Unix System Administration		4
CIS 336: Network Operating Systems*		4
IS 436: Network Security Tools and Techniques		4
Elective (CIS 322: Data Analytics recommended*)		4
<b>Business Track</b>		
ACT 230: Principles of Accounting I, MGT 221: Legal Environment of Business, MKT 230: Introduction to Marketing, MGT 240: Organizational Behavior and Management, MGT 344: Managerial Communication		20
<b>Computer Science Track</b>		
CS 120: Computer Science I, CS 122: Computer Science II, CS 201: Programming C ++, Elective		20
<b>Military Science Track</b>		
Basic Course (5 credits), Advanced Course (16 credits), Supplemental Core Course (4 credits)		25
<b>TOTAL UNDERGRADUATE DEGREE</b>		<b>120</b>

Students should work with their NMU Academic Advisor to select the appropriate coursework based on their degree tracks.

Northern Michigan University - Information Assurance/Cyber Defense 4+1 Requirements	Excelsior University MS Cybersecurity Equivalency	Semester Hours
CIS 464: Database Management Systems*	Elective (CYS 575: IT Risk Analysis and Management)	3
CIS 440: Management Information Systems*		
CIS 336: Network Operating Systems*	Elective (CYS 565: Security Management Awareness)	3
CIS 322: Data Analytics*		
<b>TOTAL TRANSFER</b>		<b>6</b>

\* Courses listed above must be taken within the undergraduate degree program to 1) satisfy BS degree requirements and 2) be awarded as "transfer credits" towards the MS Cybersecurity program at Excelsior. Courses must also be earned with a grade of B or higher for transfer eligibility.

<b>EXCELSIOR UNIVERSITY MS CYBERSECURITY CREDIT REQUIREMENTS</b>	
<b>Core</b>	
IND 501: An Interdisciplinary Approach to Ethical Leadership <i>(must be taken at Excelsior)</i>	3
IND 502: Strategic Talent Management in a Complex World <i>(must be taken at Excelsior)</i>	3
CYS 500: Foundations in Cybersecurity	3
CYS 504: Network and Communications Security	3
CYS 528: Legal and Compliance	3
CYS 560: Information Assurance	3
CYS 596: Cybersecurity Capstone <i>(must be taken at Excelsior)</i>	3
<b>Student MUST Declare a Concentration: General, Information Assurance</b>	
Concentration Elective	3
<b>TOTAL MASTER'S DEGREE</b>	<b>24</b>

<b>EVALUATION SUMMARY</b>	<b>Semester Hours</b>
Credits Accepted from Northern Michigan University	6
Credits from Excelsior *	24
<b>TOTAL MASTER'S CREDITS REQUIRED</b>	<b>30</b>

Ethical Leadership and capstone may **not** be transferred from other institutions at the graduate level.

Excelsior Admissions Requirement: Student must earn a grade of B or better with an overall GPA of 3.0. For exceptions, please contact your admissions office.

Credits from NMU must be reflected in an official transcript and submitted in a sealed envelope or sent electronically from an approved source.

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