

# Cybersecurity Management

The cybersecurity program provides students with the ability to assess risk and develop risk management strategies and policies. In this rigorous program, students will design their own secure information system and develop a robust incident response, disaster recovery and business continuity plan.

The following guide outlines the suggested sequence for a student to complete four (4) years of coursework (120 credits) including general education, common professional core, and major requirements. There is also a built in minor in Management Information Systems (MIS) that is integrated into this degree plan.

## FRESHMAN YEAR - FALL

MGT 2300 Principles of Management	3
ENG 1150 Composition I	3
PHL 1100 Phil of American Life & Business	3
MKT 2080 Principles of Marketing	3
MIS 1110 Introduction to Management Information Systems	3
LDR 1110 The NU Experience	1
<b>16</b>	

## FRESHMAN YEAR - SPRING

CYB 2100 Cybersecurity Principles	3
ENG 1200 Composition II	3
ECN 2210 Principles of Microeconomics	3
MIS 1500 Business Productivity Software	3
LDR 1300 Professional Branding & Planning	1
MTH 1100 Finite Math <i>or</i> MTH 1150 College Algebra	3
<b>16</b>	<b>32</b>

## SOPHOMORE YEAR – FALL

ACC 2410 Fundamentals of Financial Accounting	3
HIS 2100 Foundations of the Modern World I	3
MIS 2140 Programming I	3
ECN 2220 Principles of Macroeconomics	3
CHOICE	3
LDR 2250 Emerging Leaders	1
<b>16</b>	

## SOPHOMORE YEAR - SPRING

ACC 2415 Fundamentals of Managerial Accounting	3
PSC 2010 Introduction to American Government	3
SPC 2050 Speech Communications	3
CHOICE	3
MIS 3300 Project Management	3
<b>15</b>	<b>31</b>

## JUNIOR YEAR – FALL

3000/4000 Choice Elective	3
MTH 2310 Statistics I	3
NSC 2100 Environmental Science	3
MIS 3400 Systems Analysis and Design	3
CYB 3200 Network Security	3
<b>15</b>	

## JUNIOR YEAR - SPRING

CYB 3300 Physical and Operational Security	3
CYB 3800 Information Security	3
MIS 3200 Database Design & Implementation <i>or</i> MIS 3250 ERP Business Applications	3
CHOICE	3
FIN 3010 Financial Management	3
<b>15</b>	<b>30</b>

## SENIOR YEAR – FALL

MGT 4250 Organizational Behavior	3
LAW 3000 Business Law I	3
PHL 3100 Ethics	3
3000/4000 Choice Elective	3
CYB 4100 Ethical Hacking	3
<b>15</b>	

## SENIOR YEAR - SPRING

MGT 4800 Strategic Planning	3
MIS 4500 Technology Capstone Project	3
ECN 4010 Economics of Public Policy	3
3000/4000 PSY/SOC/HUM Elective	3
CHOICE Optional	
<b>12</b>	<b>27</b>

**SEMESTER HOURS TO GRADUATE 120**

# Information Systems & Cybersecurity

The Information Systems and Cybersecurity program is uniquely designed to prepare students with the skills and knowledge to meet the cybersecurity needs of employers in both the private and public sectors. Students take courses that provide opportunities to gain real-world problem-solving experience and technical skills specifically suited to careers in cybersecurity. Northwood collaborates with industry partners in areas that include curriculum development and cybersecurity lab set-up to ensure students have a solid foundation of understanding and ability to perform essential tasks in the cybersecurity field.

The following guide outlines the suggested sequence for a student to complete four (4) years of coursework (120 credits) including general education, common professional core, and major requirements. Students who want to pursue an additional major or minor should consult with an academic advisor to determine the best education plan.

## FRESHMAN YEAR - FALL

ENG 1150 Composition I	3
MGT 2300 Principles of Management	3
MIS 1110 Introduction to Management Information Systems	3
MIS 2140 Programming I	3
PHL 1100 Phil of American Life & Business	3
LDR 1110 The NU Experience	1
	<b>16</b>

## FRESHMAN YEAR - SPRING

ENG 1200 Composition II	3
ECN 2210 Principles of Microeconomics	3
MIS 1300 Information Technology Infrastructure	3
MIS 2150 Programming II	3
MTH 1100 Finite Math <i>or</i> MTH 1150 College Algebra	3
LDR 1300 Professional Branding & Planning	1
	<b>16</b>
	<b>32</b>

## SOPHOMORE YEAR – FALL

ACC 2410 Fundamentals of Financial Accounting	3
CYB 2150 Scripting	3
CYB 2300 Advanced Networking Systems	3
ECN 2220 Principles of Macroeconomics	3
MIS 1500 Business Productivity Software	3
LDR 2250 Emerging Leaders	1
	<b>16</b>

## SOPHOMORE YEAR - SPRING

ACC 2415 Fundamentals of Managerial Accounting	3
CYB 2100 Cybersecurity Principles	3
CYB 3300 Physical & Operational Security	3
MTH 2310 Statistics I	3
MKT 2080 Principles of Marketing	3
	<b>15</b>
	<b>31</b>

## JUNIOR YEAR – FALL

CYB 3000 Cryptography & Current Trends	3
CYB 3200 Network Security	3
SPC 2050 Speech Communications	3
MIS 3400 Systems Analysis and Design	3
CHOICE ( <i>PSC 2010 recommended.</i> )	3
	<b>15</b>

## JUNIOR YEAR - SPRING

MTH 3400 Introduction to Data Science	3
CYB 3800 Information Security	3
PHL 3100 Ethics	3
HIS Elective ( <i>Western Civ. Recommended</i> )	3
NSC Elective ( <i>Environmental Science Rec.</i> )	3
	<b>15</b>
	<b>30</b>

## SENIOR YEAR – FALL

CYB 3950 Advanced Operational Security	3
CYB 4100 Ethical Hacking	3
FIN 3010 Financial Management	3
LAW 3000 Business Law I	3
MGT 4250 Organizational Behavior	3
	<b>15</b>

## SENIOR YEAR - SPRING

CYB 4000 Digital Forensics	3
MIS 4500 Technology Capstone Project	3
ECN 4010 Economics of Public Policy	3
MGT 4800 Strategic Planning	3
CHOICE Optional	
	<b>12</b>
	<b>27</b>

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