

Computer Security & Information Assurance Major

Print PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/currmaps/cia/cia_1532372647361.pdf)

B.S. Computer Security & Information Assurance - Curriculum Map 2018-2019 Catalog

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Students must declare either the Forensics Concentration, the Information Assurance Management Concentration, or both (see requirements below) no later than the end of the sophomore year.

Course	Cr.Comp	Course	Cr.Comp
FRESHMAN			
Fall		Spring	
CS 100 Foundations of Computer Science and Information Assurance	3	CS 140 Programming and Computing	4
CS 111 Personal & Professional Cyber Safety	1	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	General Education Arts & Humanities (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	3
MA 107 Precalculus Mathematics ¹	4	General Education History (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	3
PY 211 Introduction to Psychology	3	Free Elective	3
General Education Leadership (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	1-3		
Fall Semester Total Cr.:	15-17	Spring Semester Total Cr.:	16
SOPHOMORE			
Fall		Spring	
CS 228 Introduction to Data Structures	3	CS 212 Assembly Language & Reverse Engineering	3
IA 241 Cyberlaw and Cybercrime	3	CS 260 Data Communications and Networks	3
MA 240 Introduction to Number Theory and Cryptology (General Education Math)	3	MA 318 Cryptology (General Education Math)	3
MG 341 Business Law I (General Education Ethics)	3	General Education Lab Science (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	4
General Education Lab Science (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	4	Free Elective	3
Fall Semester Total Cr.:	16	Spring Semester Total Cr.:	16
JUNIOR			
Fall		Spring	
DF 242 Computer Forensics I	4	CS 240 Database Management	3
EN 112 Public Speaking	3	IA 342 Management of Information Assurance	3
IA 340 Introduction to Information Assurance	3	QM 213 Business and Economic Statistics I	3
Concentration Elective	3	Concentration Elective	3
Free Elective	3	Concentration Elective	3
Fall Semester Total Cr.:	16	Spring Semester Total Cr.:	15
SENIOR			
Fall		Spring	
CS 301 Software Engineering	3	IA 456 Cyber Defense Practicum (Capstone)	3
IA 455 Contemporary Issues in Information Assurance	3	Concentration Elective	3
Concentration Elective	3	Concentration Elective	3
General Education Literature (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	3	Free Elective	3
Free Elective	3	Free Elective	3

Fall Semester Total Cr.:	15	Spring Semester Total Cr.:	15
TOTAL CREDITS FOR THIS MAJOR: 124-126			

- ¹ Requires math placement score of 2. Students scoring below 2 must satisfactorily complete the appropriate necessary prerequisite math course(s) first. Waived with math placement score of 3.

Concentrations

Forensics Concentration 2018-2019 Catalog

All courses used to fulfill a concentration must be completed with a grade of C or higher.

Required Courses

DF 311	Network Forensics	3
DF 312	Malware Forensics	3
DF 411	Cyber Investigation	3
DF 425	Advanced Digital Forensics	3

Elective Courses - Choose any non-duplicate two of the following courses:

CS 221	GUI Programming	3
CS 250	Virtual Systems Administration	3
CS 270	Operating Systems & Parallelism	3
CS 330	Ethics in Computing and Technology	3
CS 406	Special Topics in Computer Science *	3
CS 407	Politics of Cyberspace	3
CS 410	Computing Internship *	3
IA 360	Network Security	3
MG 309	Management of Organizations	3
MG 346	Business Law II	3
MG 351	Organizational Behavior	3
PY 234	Forensic Psychology	3

Total Cr. 18

- * May be taken more than once for credit by approval, contingent on each section taken covering substantively different content.

Information Assurance Management Concentration 2018-2019 Catalog

All courses used to fulfill a concentration must be completed with a grade of C or higher.

Required Courses

CS 270	Operating Systems & Parallelism	3
IA 360	Network Security	3
MG 309	Management of Organizations	3
MG 351	Organizational Behavior	3

Elective Courses - Choose any non-duplicate two of the following:

CS 221	GUI Programming	3
CS 250	Virtual Systems Administration	3
CS 330	Ethics in Computing and Technology	3
CS 406	Special Topics in Computer Science *	3
CS 407	Politics of Cyberspace	3
CS 410	Computing Internship *	3
DF 311	Network Forensics	3
DF 312	Malware Forensics	3
DF 411	Cyber Investigation	3
DF 425	Advanced Digital Forensics	3
MG 346	Business Law II	3
PY 234	Forensic Psychology	3

Total Cr. 18

- * May be taken more than once for credit by approval, contingent on each section taken covering substantively different content.