Computer Security & Information Assurance Major

Print PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/currmaps/cia/cia_1460742611040.pdf)

B.S. Computer Security & Information Assurance - Curriculum Map 2016-2017 Catalog

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Students must declare either the Forensics or the Information Assurance Management Concentration (see requirements below).

Freshman			
Fall	**Cr.**	**Spring**	**Cr.**
CS 100 Foundations of Computer Science and Information Assurance	3	CS 140 Programming and Computing[2]	4
EN 101 Composition and Literature I	3	EN 102 Composition and Literature II	3
MA 107 Precalculus Mathematics (General Education Math)[1]	4	General Education Arts & Humanities	3
PY 211 Introduction to Psychology (General Education Social Science)	3	General Education History	3
		Free Elective	3
Semester Total Credits	**13**	**Semester Total Credits**	**16**
Sophomore			
Fall	**Cr.**	**Spring**	**Cr.**
CS 228 Introduction to Data Structures	3	CS 212 Assembly Language & Reverse Engineering	3
IA 241 Cyberlaw and Cybercrime[3]	3	CS 240 Database Management	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	4
General Education Lab Science	4	Free Elective	3
Semester Total Credits	**16**	**Semester Total Credits**	**16**
Junior			
Fall	**Cr.**	**Spring**	**Cr.**
DF 242 Computer Forensics I	4	CS 260 Data Communications and Networks	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 (see below)	3	Concentration Elective (see below)	3
Free Elective	3	Concentration Elective (see below)	3
Semester Total Credits	**16**	**Semester Total Credits**	**15**
Senior			
Fall	**Cr.**	**Spring**	**Cr.**
CS 301 Software Engineering	3	IA 456 Cyber Defense Practicum	3
IA 455 Contemporary Issues in Information Assurance	3	Concentration Elective (see below)	3
Concentration Elective (see below)	3	Concentration Elective (see below)	3
General Education Literature	3	Free Elective	3
Free Elective	3	Free Elective	3
Semester Total Credits	**15**	**Semester Total Credits**	**15**
Total Credits For This Major: 122			

[1]   Requires math placement score of 2. Students scoring below 2 must complete the appropriate necessary prerequisite math courses first. Waived with math placement score of 3.

[2]   Prerequisite: C or higher in IS 100 or CS 100, or instructor permission

[3]   Cross-listed as CJ 341

Concentrations

Forensics Concentration 2016-2017 Catalog

Required Courses

DF 311	Network Forensics	3
DF 312	Malware Forensics	3
DF 411	Cyber Investigation	3

Elective Courses - Choose any non-duplicate three 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
DF 423	Advanced Digital Forensics	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 2016-2017 Catalog

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 423	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.