

## Sample Degree Plan for B.S. in Cybersecurity

### General Emphasis

#### Year 1:

<b>Fall (14-17 units)</b>	<b>Spring (15 units)</b>
CYBER 101 – Introduction to Cybersecurity	COMPSCI 172/174 – Intro. Programming
MATH 142 (4 units) or MATH 151 (3 units)	COMPSCI 215 – Discrete Structures
ENGLISH 101	ENGLISH 102
CORE 130	CORE 110
Gen Ed elective 1 (2-3 units)	US Racial/Ethnic Diversity + GenEd (3 units)
INTRAUNV 104 (1 unit, optional)	

#### Year 2:

<b>Fall (14-15 units)</b>	<b>Spring (15-17 units)</b>
COMPSCI 222 – Intermediate C++	COMPSCI 460 – Computer Networking
COMPSCI 271 – Computer Organization and Assembly	COMPSCI 354 – Intrusion Detection and Incident Response
COMPSCI 353 – Cybersecurity Law & Policy	CORE 120 or CORE 140
Lab science course 1 (4-5 units)	Lab science course 2 (4-5 units)
PEGNRL 192 (1 unit)	Gen Ed elective 2 (2-3 units)

#### Year 3:

<b>Fall (15 units)</b>	<b>Spring (15 units)</b>
ITSCM 331 – System Administration / COMPSCI 481 – Unix Administration	ITSCM 452 – Information Security Assurance
COMPSCI 455 – Cryptography and Networking Security	Major Elective 1
COMM 110	CORE 390
Minor course 1	Minor course 3
Minor course 2	Minor course 4

#### Year 4:

<b>Fall (15 units)</b>	<b>Spring (15-17 units)</b>
CYBER 459 – Security System Engineering	COMPSCI 456 – Computer System Security
Major Elective 2	Minor course 7
Minor course 5	Minor course 8
Minor course 6	Open elective (3 units)
Open elective (3 units)	Open elective(s) to reach 120 total units

## Sample Degree Plan for B.S. in Cybersecurity Cyber Operations Emphasis

### Year 1:

<b>Fall</b>	<b>Spring</b>
COMPSCI 172/174 – Introductory Programming	COMPSCI 222 – Intermediate C++
MATH 142 or MATH 151	COMPSCI 271 – Computer Organization and Assembly
COMPSCI 353 – Cybersecurity Law and Policy	ITSCM 452 – Information Assurance and Security
General Education 5-6 credits	General Education 5-6 credits

### Year 2:

<b>Fall</b>	<b>Spring</b>
COMPSCI 455 – Cryptography and Networking Security	COMPSCI 456 – Computer System Security
COMPSCI 215 – Discrete Structures	Major Electives
CYBER 459 – Security System Engineering	General Education credits
General Education 5-6 credits	

### Notes:

- (1) We assume that most students in this emphasis have taken CYBER 101, COMPSCI 354, ITSCM 331, ITSCM 332, COMPSCI 342, COMPSCI 481.
- (2) Depending on the credits transferred over, some students might need at least 5 semesters to complete the program.

## Sample Degree Plan for B.S. in Cybersecurity Comprehensive Emphasis

### Year 1:

<b>Fall (15-17 units)</b>	<b>Spring (15 units)</b>
CYBER 101 – Introduction to Cybersecurity	COMPSCI 172/174 – Intro. Programming
MATH 142 - College Algebra (4 units)	MATH 151 - Trigonometry
ENGLISH 101	COMPSCI 215 – Discrete Structures
CORE 130	ENGLISH 102
Gen Ed elective 1 (2-3 units)	CORE 110
INTRAUNV 104 (1 unit, optional)	

### Year 2:

<b>Fall (15 units)</b>	<b>Spring (15 units)</b>
COMPSCI 222 – Intermediate C++	COMPSCI 223 – Data Structures
COMPSCI 271 – Computer Org. & Assembly	COMPSCI 460 – Computer Networking
COMPSCI 353 – Cybersecurity Law & Policy	COMPSCI 354 – Intrusion Detection and Incident Response
MATH 253 - Calculus+Analytic Geom I (5 u.)	STAT 230 or STAT 342
PEGNRL 192 (1 unit)	CORE 120 or CORE 140

### Year 3:

<b>Fall (16-17 units)</b>	<b>Spring (16-17 units)</b>
ITSCM 331 – System Administration	ITSCM 332 – Network Administration
COMPSCI 342 – Digital Forensics	ITSCM 452 – Information Security Assurance
COMPSCI 455 – Cryptography and Networking Security	COMPSCI 424 – Operating Systems
Lab science course 1 (4-5 units)	Lab science course 2 (4-5 units)
COMM 110	US Racial/Ethnic Diversity + GenEd (3 units)

### Year 4:

<b>Fall (14-15 units)</b>	<b>Spring (12-14 units)</b>
CYBER 459 – Security System Engineering	COMPSCI 456 – Computer System Security
Major Elective 1	Major Elective 3
Major Elective 2	Major Elective 4
CORE 390	Open elective(s) to reach 120 total units
Gen Ed elective 2 (2-3 units)	