Checklist for Cybersecurity Major

We recommend students interested in the Cybersecurity major take CYB-115 in their first year at Assumption because it is part of the major required sequence CYB-115, 230, 235.

Required Courses (14)

Requirement	Course	Fall	Spring	Prerequisite	Semester Planned	Completed
Cybersecurity Fundamentals	CYB 115	x	x			
Intro. to Programming or Statistics Programming	CSC 117	x				
	CSC 120	x	x			
Statistics	ECO 115	x	x	BUS 100		
	PSY 224	x	x			
	SOC 300	x				
Networking and Data Communications	CSC/CYB 230	x		CYB 115 or CSC 117/120		
Securing Wired and Wireless Networks	CSC/CYB 235		x	CYB 115 and CSC/CYB 230		
Operating Systems Administration	CYB 265	Even		CYB 115		
Operating Systems	CSC 303		Odd	CSC 117		
Database Management Systems	CSC 321		x	CSC 117		
Cryptography	CYB 304		Even	CYB 235, or corequisite		
Software and Application Security	CYB 318	x		CYB 235		
Computer, Network Forensics and Digital Investigations	CYB 328	x		CYB 235		
Ethical Hacking	CYB 338	x		CYB 235		
Preparing for Cyber Disasters	CYB 401		Even	CYB 235, or corequisite		
Independent Cybersecurity Project or Internship	CYB 438	x	x	Junior or Senior standing in CYB major		

Suggested Schedule for Cybersecurity Major

See Assumption's Catalog for additional information, e.g. Core Curriculum requirements.

First Year: Fall 20____	Spring 20____
1. CYB 115 Cybersecurity Fundamentals (CYB 115 should be completed by the end of 1st year)	1. Statistics (ECO 115, PSY 224, or SOC 300 - Fall only)
2. CSC 117 Intro to Programming (Fall) or CSC 120 Stats Programming (any semester)	2.
3.	3.
4.	4.
4.	5.
6. BUS 100 Intro to Excel (1-credit) (if ECO 115 in Spring)	

Second Year: Fall 20____	Spring 20____
1. CSC/CYB 230 Networking and Data Communications (Fall)	1. CSC/CYB 235 Securing Wired and Wireless Networks (Spring)
2. CYB 265 Operating Systems Administration (Fall even) (Move to 3rd year if odd year)	2. CSC 303 Operating Systems (Spring odd) (Move to 3rd year if even year)
3.	3. CSC 321 Database Management Systems (Spring)
4.	4.
5.	5.

Third Year: Fall 20____	Spring 20____
1. CYB 318 Software and Application Security (Fall)	1. CYB 304 Cryptography (Spring even) (Move to 4th year if odd year)
2. CYB 328 Computer, Network Forensics and Digital Investigations (Fall)	2. CYB 401 Preparing for Cyber Disasters (Spring even) (Move to 4th year if odd year)
3.	3.
4.	4.
5.	5.

Fourth Year: Fall 20____	Spring 20____
1. CYB 338 Ethical Hacking (Fall)	1. CYB 438 Independent Cybersecurity Project or Internship
2	2.
3.	3.
4.	4.
5.	5.