

Academic Program Sequence Map

Program Degree Type and Name: BS/MS 4+1 in Cybersecurity

Catalog Year: 2024-2025

Program Level: Undergrad/Graduate

Academic Term Type: Semester

** Denote core course with an asterisk and (cc) next to the course number*

Year and Term: Year 1 Fall term								Year and Term: Year 1 Spring term							
Credits Per Classification								Credits Per Classification							
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
ENGL111: Written Engl and Lit Studies I	3	x						ENGL112: Written Engl and Lit Studies II	3	x					
CINQ 101 Critical Inquiry	3	x						MATH201: Precalculus	3	x					
MATH116: College Algebra	3	x						CISC131: Foundations of Computing I	3	x			B or higher		
CISC120: Intro Computers & App Software	3	x						COMM 110 Oral Communication	3	x					
Gen Edu or ENGL 110	3	x						Gen Ed	3	x					
Term Credit Total:	15	15						Term Credit Total:	15	15					
Year and Term: Year 2 Fall term								Year and Term: Year 2 Spring term							
Credits Per Classification								Credits Per Classification							
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
MATH244: Discrete Structures	3		x					MATH122: Statistics	3	x					
CISC231: Foundations of Computing II	3	x						IASP 221: Linux Administration	3		x		B or higher		
IASP230: Intro to Cybersecurity	3		x		B or higher			IASP330: Dis. Recovery & Bus. Continuity	3		x				
Gen Ed	3	x						Gen Ed	3	x					
Gen Ed	3	x						Gen Ed	3	x					
Term Credit Total:	15	9	6					Term Credit Total:	15	9	6				
Year and Term: Year 3 Fall term								Year and Term: Year 3 Spring term							
Credits Per Classification								Credits Per Classification							
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
JRSM301 : Junior Seminar	3	x						CISC385: Cryptography	3		x				
CISC337: Database Management System	3		x					CISC335: Computer Network	3		x				
IASP355: Pen. Testing & Ethical Hacking	3		x					IASP340 Security Policy and Procedures	3		x				
Gen Ed	3	x						Gen Ed	3	x					
Gen Ed	3	x						Major Elective			x				
Term credit total:	15	9	6					Term Credit Total:	15	3	12				
Year and Term: Year 4 Fall term								Year and Term: Year 4 Spring term							
Credits Per Classification								Credits Per Classification							
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
IASP420: Network Security	3		x					IASP470 : Capstone (System Sec.)	3		x				
IASP455: Sec. & Intel. Programming	3		x					IASP430: Digital Forensics	3		x				
Major Elective	3		x					Major Elective	3		x				
IASP 500 Topics in Info. Security	3			x	B+ or higher			Graduate Legal/Mgmt Elective	3			x			
IASP 505 Found. of Cybersec. Sci.	3			X	B+ or higher			Graduate Application or Network Elective	3			x			
Term Credit Total:	15		9	6				Term Credit Total:	15		9	6			
Year and Term: Year 5 Fall Term								Year and Term: Year 5 Spring Term							
Credits Per Classification								Credits Per Classification							
Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice	Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)	Milestone/Advice
Graduate Application or Network Elective	3		x					IASP 600: Master's Project (Capstone)	3		x				
Graduate Special Category Elective	3		x					Graduate Major Category Elective	3		x				
Graduate Major Category Elective	3		x					Graduate Major Category Elective	3		x				
Term Credit Total:	9		9					Term Credit Total:	9		9				

Program Totals	Credits: 138	General Education: 60	Major & Major Elective: 66	Open Elective: 12
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Legend: CR: Credits GE: General Education Maj: Major / Major Elective OE: Open Elective SM: Success Marker Co/Prerequisite(s): List of co/ prerequisites for noted course GC: Gateway Courses CA: Career Activity ELC: Experiential Learning Course

Note 2: IASP500, IASP505, and at least one from each {Application, Network and Legal/Management Categories}

Note: (Major Categories are listed below)

Of

Academic Program Sequence Map

Application Category	<p>IASP520 Data Mining & Knowledge Discovery</p> <p>IASP525 Databases Security</p> <p>IASP530 Forensic Computing</p> <p>IASP565 Social Media & Security</p> <p>IASP 585 Applied Cryptography</p>
Network Category	<p>IASP550 Intrusion Detection & Prevention</p> <p>IASP555 Mobile Tech & Wireless Sensor Services</p> <p>IASP560 Wireless Network & Security</p>
Legal/Management Category	<p>IASP510 Social Implication of Info Security</p> <p>IASP540 IT Audit and Compliance</p> <p>IASP580 Security Audit & Compliance</p>
Special Category	<p>IASP590 Internship: Adv Topics in Sec Practice</p> <p>IASP595 Special Topics in Info Security IASP 599</p> <p>Independent Study</p> <p>IASP601 Master's Thesis</p>
Major Electives	<p>9 credits can be taken from any of the Application, Network, Legal/Management Category, or Special Category)</p>
Capstone Category	<p>IASP 600 Master's Project</p>

Credits Per Classification	
Co / Prerequisite(s)	Milestone/Advice
ENGL 111	
MATH 116	
	GC
Credits Per Classification	
Co / Prerequisite(s)	Milestone/Advice
MATH 116	
CISC 131	
IASP 230	
Credits Per Classification	
Co / Prerequisite(s)	Milestone/Advice
MATH 244	
CISC 231	
Credits Per Classification	
Co / Prerequisite(s)	Milestone/Advice
Six 300 upper level courses	CA/ELC
CISC 337 & IASP221	
Credits Per Classification	
Co / Prerequisite(s)	Milestone/Advice
See Note2 below	