



Cecil College and Wilmington University

Associate of Applied Science in Cybersecurity to Bachelor of Science in Cybersecurity or Computer Science Articulation Pathways

EARLY ADMISSIONS BENEFITS:

(For Cecil students and alumni that meet the requirements outlined under Student Eligibility Requirements for Early Admissions Benefits)

- Guaranteed admissions to WilmU
- WilmU Application fee waiver
- Early access to a WilmU recruiter, admissions associate, and/or academic advisor 100% online or at a WilmU location
- Program-to-program course maps from a Cecil associate degree through the eligible WilmU bachelor degree
- Ability to enroll at both Cecil and WilmU concurrently
- Opportunity to complete select graduate courses as part of an undergraduate degree at the undergraduate per credit tuition

STUDENT ELIGIBILITY REQUIREMENTS FOR EARLY ADMISSIONS BENEFITS

- Students currently enrolled or have already completed any of the following Cecil College associate degree programs:
 - Associate of Applied Science in Cybersecurity
 - Associate of Applied Science in Computer Science Programming
 - Associate of Science in Computer Science
- Submit a WilmU Early Admissions Intent to Enroll Form.
- Enroll in one of the following eligible bachelor degrees at WilmU:
 - o Bachelor of Science in Cybersecurity no concentration
 - o Bachelor of Science in Cybersecurity Digital Forensics concentration
 - Bachelor of Science in Computer Science no concentration
 - o Bachelor of Science in Computer Science Artificial Intelligence concentration
 - o Bachelor of Science in Computer Science Data Analytics concentration
- Submit an official Cecil transcript with degree conferral to WilmU, and submit all official transcripts from all previously attended institutions. Completion of additional forms may be required for some majors or by enrollment status.

Associate Degree Coursework and Transfer:

Cecil College			CR	Wilmin	gton Univ	versity Course Equivalents	CR
ART/HUM		Arts and Humanities Elective	3	HUM	XXX	Humanities Elective	3
BIO/PHY		Biology w/Lab or Physics w/Lab	4	SCI	XXX	Science Elective	4
CSC	104	Computer Science Fundamentals	3	CSC	200	Computer Science Fundamentals	3
CSC	109	Introduction to Programming	3	SEC	290	Introduction to Programming with Python	3
CSC	110	Ethics in Information Technology	3	ELE	1XX	Free Elective	3
CSC	140	Introduction to Networking	3	SEC	235	Networks and Telecommunications	3
CSC	141	Computer Network Security	3	SEC	250	Operating System & Computer Systems	3
		Fundamentals				Security	
CSC	151	Introduction to Computer Forensics &	3	SEC	350	Introduction to Computer Forensics	3
		Investigations					
CSC	225	Tactical Perimeter Defense	3	SEC	2XX	Security Elective	3
CSC	235	Strategic Infrastructure Security	3	SEC	2XX	Security Elective	3
CSC	266	Routing and Switching I	4	SEC	2XX	Security Elective	4
EGL	101	Freshman Composition	3	EGL	121	English Composition I	3
EGL	102	Composition and Literature	3	EGL	122	English Composition II	3
MAT		Math Elective*	4	MAT	1XX	Math Elective	4
CSC		Computer Science Elective	3	CSC	1/2XX	COT Elective	3
CSC		Computer Science Elective	3	CSC	1/2XX	COT Elective	3
CSC		Computer Science Elective	3	CSC	1/2XX	COT Elective	3
PSY	101	Introduction to Psychology	3	PSY	101	Introduction to Psychology	3
SOC SCI		Social Science Elective	3	SOC	XXX	Behavioral Science Elective	3
Total			60	Total			60

Option 1:

B.S. in Cybersecurity- no concentration (Remaining Course Requirements)

#	Course ID	Course Name	GR Req.	CR	Notes
1	CTA 206	Computer Applications		3	See Note: 1
2	SEC 100	Introduction to Computer Hardware & Operation		3	See Note: 1
3	SEC 210	Principles and Practice of Information Security		3	
4	SEC 230	Introduction to Linux		3	See Note: 1
5	CSC 345	Database Foundations		3	
6	MAT 308	Inferential Statistics		3	See Note: 1
7	PHI 314	Ethics for Computer Professionals		3	
8	SEC 310	Cryptography: Algorithms & Applications		3	
9	SEC 335	Linux for Systems Administrators		3	
10	SEC 340	Windows Operating Systems & System Administration		3	See Note: 1
11	SEC 410	Web and Data Security		3	
12	SEC 450	Protecting Your Network: Firewall and Perimeter		3	
		Security			
13	SEC 480 or SEC 490	Experiential Learning in Cybersecurity or Computer and		3	
		Net. Sec. Intern.			
14		College of Technology Elective (Any WilmU course with		3	
		a CSC, CTA, GMD, ISM, MIS, SDD, SEC, or TEC prefix)			
Secur	ity Electives (15 credits) cor	nplete 5 courses from the following options:			
15-					
19	LES 331, Electronic	SEC 425, Ethical Hacking;			
	Discovery	SEC 435, Advanced Network Management;			
	SEC 240, Foundations in	SEC 440, Network Forensics;			
	Cyber Investigations;	SEC 465, Cyber Security and IoT;			
	SEC 305, Psychology of a	SEC 490, Computer & Network Security Internship;			
	Cyber Attacker;	UAV 100, Introduction to Drone Operations;			
	SEC 325, Breaking Down	UAV 102, Drone Design and Maintenance;			
	Cloud Security;	UAV 200, Security of UAV and UAS Systems			
	SEC 355, Mobile Device				
	Security & Forensics;				
	SEC 360 Advanced				
	Mobile and loT Forensics				
	SEC 370, Computer				
	Incident Response				
	Course;				
	SEC 375 Malware				
	Analysis Techniques				
20		Free Elective		3	See Note: 1

- WilmU has a credit residency policy of 30 credits. Therefore, additional credits beyond the associate degree requirements can be completed at Cecil College. However, certificate and accelerated options are available at Wilmington University for students with elective space. The following courses can be completed at Cecil College to maximize transfer credit:
 - a. CSC 130, Introduction to Linux for SEC 230, Introduction to Linux
 - b. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - c. CSC 154, Introduction to Windows 10 for SEC 340, Windows Operating Systems and System Administration
 - d. CIS 101, Introduction to Computer Concepts for CTA 206, Computer Applications
 - e. MAT 127, Introduction to Statistics for MAT 308, Inferential Statistics

Option 2:

B.S. in Cybersecurity- Digital Forensics concentration (Remaining Course Requirements)

#	Course ID	Course Name	GR	CR	Notes
			Req.		
1	CTA 206 Computer Applications			3	See Note: 1
2	SEC 100	Introduction to Computer Hardware & Operation		3	See Note: 1
3	SEC 210	Principles and Practice of Information Security		3	
4	SEC 230	Introduction to Linux		3	See Note: 1
5	CSC 345	Database Foundations		3	
6	MAT 308	Inferential Statistics		3	See Note: 1
7	PHI 314	Ethics for Computer Professionals		3	
8	SEC 310	Cryptography: Algorithms & Applications		3	
9	SEC 335	Linux for Systems Administrators		3	
10	SEC 340	Windows Operating Systems & System Administration		3	See Note: 1
11	SEC 410	Web and Data Security		3	
12	SEC 450	Protecting Your Network: Firewall and Perimeter		3	
		Security			
13	SEC 480 OR SEC 490	Experiential Learning in Cybersecurity or Computer and		3	
		Net. Sec. Intern.			
Digit	al Forensics Concentration (18 Credits)			
14-		Select 6 courses from the following options:		18	
19		LES 331 Electronic Discovery			
		SEC 240 Foundations in Cyber Investigations			
		SEC 350 Introduction Computer Forensics			
		SEC 355 Mobile Device Security and Forensics			
		SEC 360 Advanced Mobile and IoT Forensics			
		SEC 370 Computer Incident Response Course			
		SEC 375 Malware Analysis Techniques			
		SEC 440 Network Forensics			
20		Free Elective		3	See Note: 1

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 - a. CSC 130, Introduction to Linux for SEC 230, Introduction to Linux
 - b. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - c. CSC 154, Introduction to Windows 10 for SEC 340, Windows Operating Systems and System Administration
 - d. CIS 101, Introduction to Computer Concepts for CTA 206, Computer Applications
 - e. MAT 127, Introduction to Statistics for MAT 308, Inferential Statistics

Option 3:

B.S. in Computer Science with no concentration (Remaining Course Requirements)

#	Course ID	Course Name	GR	CR	Notes
			Req.		
1	CTA 326	Integ. Excel into Business Problem		3	
2	CSC 100	Web Design & Development		3	See Note: 1
3	SEC 100	Intro to Comp Hardware & Operation		3	See Note: 1
4	SEC 205	Fundamentals of Cybersecurity		3	
5	PHI 314	Ethics for Computer Professionals		3	
6	BBA 430	Big Data and Visualization		3	
7	CSC 305	Computer Architecture		3	
8	CSC 315	Fund. of 0-0 Programming		3	See Note: 1
9		CSC325 Java Programming I or CSC310 Microsoft .NET I		3	
10		CSC335 Java Programming II or CSC311 Microsoft .NET I		3	
11		CSC240 JavaScript or CSC340 JavaScript I		3	See Note: 1
12	CSC 345	Database Foundations		3	
13	CSC 350	Mobile App		3	
14	CSC 370	User-Centered Design		3	
15	CSC 400	0-0 Sys Anlys and Design		3	
16	ISM 420	Data Modeling and Warehousing		3	
17		CSC489 Experiential Learning in CS or CSC490 CSC		3	
		Internship			
18		Science Elective		3	
19		Elective		3	
20		Elective		3	

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 - a. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - b. Either VCP 144, Web Design I Design Fundamentals OR CSC 182, Web Applications Development will satisfy the requirement for CSC 100, Web Design & Development
 - c. CSC 205, Computer Science I for CSC 240 JavaScript
 - d. CSC 218, Computer Science II for CSC 315 Fund. of 0-0 Programming

Option 4:

B.S. in Computer Science with Artificial Intelligence concentration (Remaining Course Requirements)

#	Course ID	Course Name	GR	CR	Notes
			Req.	_	
1	CTA 326	Integ. Excel into Business Problem		3	
2	CSC 100	Web Design & Development		3	See Note: 1
3	SEC 100	Intro to Comp Hardware & Operation		3	See Note: 1
4	SEC 205	Fundamentals of Cybersecurity		3	
5	CSC 305	Computer Architecture		3	
6	CSC 315	Fund. of 0-0 Programming		3	See Note: 1
7		CSC325 Java Programming I or CSC310 Microsoft .NET I		3	
8		CSC335 Java Programming II or CSC311 Microsoft .NET I		3	
9		CSC240 JavaScript or CSC340 JavaScript I		3	See Note: 1
10	CSC 345	Database Foundations		3	
11	CSC 350	Mobile App		3	
12	CSC 370	User-Centered Design		3	
13	CSC 400	0-0 Sys Anlys and Design		3	
14	CSC 414	Ethics for Al and Data Analytics		3	
15	CSC 419	Python for Data Science		3	
16	CSC 420	Intro to Artificial Intelligence		3	
17	CSC 430	Machine Learning Principles		3	
18	CSC 470	Computer Vision and Image Analysis		3	
19		CSC480 Experiential Learning in CS or CSC490 CSC		3	
		Internship			
20		Elective		3	

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 - a. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - b. Either VCP 144, Web Design I Design Fundamentals OR CSC 182, Web Applications Development will satisfy the requirement for CSC 100, Web Design & Development
 - c. CSC 205, Computer Science I for CSC 240 JavaScript
 - d. CSC 218, Computer Science II for CSC 315 Fund. of 0-0 Programming

Option 5:

B.S. in Computer Science with Data Analytics concentration (Remaining Course Requirements)

#	Course ID	Course Name	GR	CR	Notes
			Req.		
1	CTA 326	Integ. Excel into Business Problem		3	
2	CSC 100	Web Design & Development		3	See Note: 1
3	SEC 100	Intro to Comp Hardware & Operation		3	See Note: 1
4	SEC 205	Fundamentals of Cybersecurity		3	
5	BBA 430	Big Data and Visualization		3	
6	CSC 305	Computer Architecture		3	
7	CSC 315	Fund. of 0-0 Programming		3	See Note: 1
8		CSC325 Java Programming I or CSC310 Microsoft .NET I		3	
9		CSC335 Java Programming II or CSC311 Microsoft .NET I		3	
10		CSC240 JavaScript or CSC340 JavaScript I		3	See Note: 1
11	CSC 345	Database Foundations		3	
12	CSC 350	Mobile App		3	
13	CSC 400	0-0 Sys Anlys and Design		3	
14	CSC 402	Data Analysis Storytelling		3	
15	CSC 407	Data Analysis for Organizations		3	
16	CSC 414	Ethics for Al and Data Analytics		3	
17	CSC 419	Python for Data Science		3	
18	ISM 420	Data Modeling and Warehousing		3	
19		CSC480 Experiential Learning in CS or CSC490 CSC		3	
		Internship			
20		Elective		3	

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 - a. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - b. Either VCP 144, Web Design I Design Fundamentals OR CSC 182, Web Applications Development will satisfy the requirement for CSC 100, Web Design & Development
 - c. CSC 205, Computer Science I for CSC 240 JavaScript
 - d. CSC 218, Computer Science II for CSC 315 Fund. of 0-0 Programming