



Cecil College and Wilmington University

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

Admissions:

- 1. Guaranteed admissions to WilmU
- 2. WilmU application fee waiver
- 3. Early access to a WilmU recruiter, admissions associate, and/or academic advisor 100% online or at a WilmU location
- 4. Program-to-program course maps from a Cecil associate degree through the eligible WilmU bachelor degree
- 5. Ability to enroll at both Cecil and WilmU concurrently
- 6. Opportunity to complete select graduate courses as part of an undergraduate degree at the undergraduate per credit tuition
- 7. While some lower-level courses may still be required, Cecil students will enter WilmU with junior status towards completion of a bachelor's degree consistent with program-to-program plan of study.

Associate Degree Coursework and Transfer:

Cecil College			CR	Wilmin	ilmington University Course Equivalents				
SCI		Science Elective w/Lab	4	SCI	XXX	Science Elective	4		
CSC	103	Survey of Operation Systems	3	SEC	250	OS and Computer System Security	3		
CSC	104	Computer Science Fundamentals	3	CSC	200	Computer Science Fundamentals	3		
CSC	106	Introduction to Programming Logic	3	CSC	1XX	COT Elective	3		
CSC	109	Introduction to Programming	3	SEC	290	Introduction to Programming w/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	182	Web Applications Development	3	CSC	1XX	COT Elective	3		
CSC	203	Seminar in Information Systems	1	CSC	2XX	COT Elective	1		
CSC	205	Computer Science I	3	CSC	240	JavaScript	3		
VCP	144	Web Design I - Design Fundamentals	3	CSC	100	Web Design and Development	3		
EGL	101	Freshman Composition	3	ENG	121	English Composition I	3		
EGL	211	Technical Writing	3	СОМ	250	Technical Writing	3		
SPH	121 OR	Interpersonal Communication	3	PSY	309	Interpersonal Communication Skills or	3		
	141	Public Speaking		ENG	131	Public Speaking			
MAT		Math Elective*	4	MAT	1XX	Math Elective	4		
CSC		Computer Science Elective	3	CSC	XXX	COT Elective	3		
CSC		Computer Science Elective	3	CSC	XXX	COT Elective	3		
CSC		Computer Science Elective	3	CSC	XXX	COT Elective	3		
CSC		Computer Science Elective	3	CSC	XXX	COT Elective	3		
SOC SCI		Social Science Elective	3	SOC	XXX	Behavioral Science Elective	3		
Total		-	60	Total			60		

^{*} Recommended Math Course

Option 1:

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

#	Course ID	Course Name	GR	CR	Notes
1	EGL 122	English Composition II	Req.	3	See Note: 1
2	CTA 206	Computer Applications		3	See Note: 1
3	SEC 100	Introduction to Computer Hardware & Operation		3	See Note: 1
4	SEC 210	Principles and Practice of Information Security		3	See Note. 1
5	SEC 230	Introduction to Linux		3	See Note: 1
6				3	see Note. 1
7	CSC 345	Database Foundations Inferential Statistics		3	Coo Noto, 1
	MAT 308				See Note: 1
9	PHI 314	Ethics for Computer Professionals		3	
	SEC 310	Cryptography: Algorithms & Applications			
10	SEC 335	Linux for Systems Administrators		3	6 11 1
11	SEC 340	Windows Operating Systems & System Administration		3	See Note: 1
12	SEC 410	Web and Data Security		3	
13	SEC 450	Protecting Your Network: Firewall and Perimeter		3	
		Security			
14	SEC 480 or SEC 490	Experiential Learning in Cybersecurity or Computer and		3	
		Net. Sec. Intern.			
15		College of Technology Elective (Any WilmU course with		3	
		a CSC, CTA, GMO, ISM, MIS, SOD, SEC, or TEC prefix)			
		lete 5 courses from the following options:		1	ı
16-	LES 330, Cyber Law	SEC 420, Data Integrity and Disaster Recovery;		15	
20	LES 331, Electronic	SEC 425, Ethical Hacking;			
	Discovery	SEC 435, Advanced Network Management;			
	SEC 240, Foundations in	SEC 440, Network Forensics;			
	Cyber Investigations; SEC	SEC 465, Cyber Security and IoT;			
	305, Psychology of a Cyber	SEC 490, Computer & Network Security Internship;			
	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				
	IoT Forensics SEC 370,				
	Computer Incident				
	Response Course;				
	SEC 375 Malware Analysis				
	Techniques				

- 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. EGL 102 Composition and Literacy for ENG 122, English Composition II
 - b. CSC 130, Introduction to Linux for SEC 230, Introduction to Linux
 - c. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - d. CSC 154, Introduction to Windows 10 for SEC 340, Windows Operating Systems and System Administration
 - e. CIS 101, Introduction to Computer Concepts for CTA 206, Computer Applications
 - f. 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	EGL 122 English Composition II			3	See Note: 1	
2	CTA 206 Computer Applications			3	See Note: 1	
3	SEC 100	Introduction to Computer Hardware & Operation		3	See Note: 1	
4	SEC 210	Principles and Practice of Information Security		3		
5	SEC 230	Introduction to Linux		3	See Note: 1	
6	CSC 345	Database Foundations		3		
7	MAT 308	Inferential Statistics		3	See Note: 1	
8	PHI 314	Ethics for Computer Professionals		3		
9	SEC 310	Cryptography: Algorithms & Applications		3		
10	SEC 335	Linux for Systems Administrators		3		
11	SEC 340	SEC 340 Windows Operating Systems & System Administration		3	See Note: 1	
12	SEC 410	Web and Data Security		3		
13	SEC 450	Protecting Your Network: Firewall and Perimeter		3		
		Security				
14	SEC 480 OR SEC 490	Experiential Learning in Cybersecurity or Computer and		3		
		Net. Sec. Intern.				
Digita	Digital Forensics Concentration (18 Credits)					
15-		Select 6 courses from the following options:		18		
20		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				

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 - a. EGL 102 Composition and Literacy for ENG 122, English Composition II
 - b. CSC 130, Introduction to Linux for SEC 230, Introduction to Linux
 - c. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - d. CSC 154, Introduction to Windows 10 for SEC 340, Windows Operating Systems and System Administration
 - e. CIS 101, Introduction to Computer Concepts for CTA 206, Computer Applications
 - f. 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	EGL 122	English Composition II		3	See Note: 1
2	CTA 326	Integ. Excel into Business Problem		3	
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	CSC 345	Database Foundations		3	
12	CSC 350	Mobile App		3	
13	CSC 370	User-Centered Design		3	
14	CSC 400	0-0 Sys Anlys and Design		3	
15	ISM 420	Data Modeling and Warehousing		3	
16		CSC489 Experiential Learning in CS or CSC490 CSC		3	
		Internship			
17		Elective		3	
18		Elective		3	
19		Elective		3	
20		Elective		3	

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 - a. EGL 102 Composition and Literacy for ENG 122, English Composition II
 - b. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - c. 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		CR	Notes
1	EGL 122	English Composition II		3	See Note: 1
2	CTA 326	Integ. Excel into Business Problem		3	
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	CSC 345	Database Foundations		3	
10	CSC 350	Mobile App		3	
11	CSC 370	User-Centered Design		3	
12	CSC 400	0-0 Sys Anlys and Design		3	
13	CSC 414	Ethics for Al and Data Analytics		3	
14	CSC 419	Python for Data Science		3	
15	CSC 420	Intro to Artificial Intelligence		3	
16	CSC 430	Machine Learning Principles		3	
17	CSC 470	Computer Vision and Image Analysis		3	
18		CSC480 Experiential Learning in CS or CSC490 CSC Internship		3	
19		Elective		3	
20		Elective		3	

- 1. Wilm U has a credit residency policy of 3 0 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. EGL 102 Composition and Literacy for ENG 122, English Composition II
 - b. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - c. 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 Reg.	CR	Notes
1	EGL 122	English Composition II		3	See Note: 1
2	CTA 326	Integ. Excel into Business Problem		3	
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	CSC 345	Database Foundations		3	
11	CSC 350	Mobile App		3	
12	CSC 400	0-0 Sys Anlys and Design		3	
13	CSC 402	Data Analysis Storytelling		3	
14	CSC 407	Data Analysis for Organizations		3	
15	CSC 414	Ethics for Al and Data Analytics		3	
16	CSC 419	Python for Data Science		3	
17	ISM 420	Data Modeling and Warehousing		3	
18		CSC480 Experiential Learning in CS or CSC490 CSC Internship		3	
19		Elective		3	
20		Elective		3	

- 1. Wilm U has a credit residency policy of 3 0 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. EGL 102 Composition and Literacy for ENG 122, English Composition II
 - b. CSC 135, Client Systems for SEC 100, Computer Hardware & Operation
 - c. CSC 218, Computer Science II for CSC 315 Fund. of 0-0 Programming