

Bachelor of Arts in Computer Science for Students Who Began Fall 2021 and Later

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		Free Elective (3)	Free Elective (3)	Free Elective (3)	Computer Science Elective (3)	Computer Science Elective (3)	Computer Science Elective (3)
Computer Science Technical Electives							
To satisfy the computer science (CS) elective requirement, all students must take 18 credits chosen from Computer Science and Computer Engineering upper-division courses that are not in the above CS core Certain 5000-level or 6000-level courses may be taken as CS electives. Students must see an advisor for a current list of elective courses. Students seeking a specialty may consider taking electives in an area of study. A few suggested areas of concentration follow.		Free Elective (3)	Free Elective (3)	Free Elective (3)	Computer Science Elective (3)	Computer Science Elective (3)	Software Engineering Project CEN 4910 (3) Pre: CEN 4010
Internet Technology†							<u>OR</u>
Introduction to Data Communications	CNT 4104				Computer Science	Applied Database	Mobile App
Foundations of Cybersecurity	CNT 4403	Free Elective (3)	Free Elective (3)	Free Elective (3)	Elective	Systems	Project
Mobile App Projects	COP 4655	(3)	(5)	(5)	(3)	COP 4703 (3)	COP 4655 (3) Pre: COP 3813
Applied Database Systems	COP 4703						Pre. COP 3813
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Cybersecurity†	CIC 4242	Coiones Creun A					
Cyber Physical System Security	CIS 4213 CIS 4367	Science Group A (3)	Object-Oriented	Computer	Python	Introduction to	Principles of
Operating Systems Security Foundations of Cybersecurity	CIS 4367 CNT 4403	Science Group A or B	Design and Programming	Operating Systems	Programming	Database Structures	Software Engineering
Network and Data Security	CNT 4411	(3)	COP 4331 (3)	COP 4610 (3)	COP 4045 (3)	COP 3540 (3)	CEN 4010 (3)
Network and Bata Security	CIVI 4411	(17)	•	A	•	•	•
Data Science†		Humanities					
Introduction to Deep Leaning	CAP 4613	Group A (3) (WAC)					
Introduction to Artificial Learning	CAP 4630	Humanities					
Introduction to Data Mining and Machine Learning	CAP 4770	IFP (3)					
Introduction to Data Science and Analytics	CAP 4773	Global Citizenship IFP (3) (WAC)					
† Some of the elective courses in the list may need prerequisites that are not part of the program. Students must ensure that they have the prerequisites for the selected courses.		Global Citizenship IFP (3)		Communication Control	Data Structures &	Introduction	
The following courses may be taken as computer science electives:		2000044	Structured Comp.	Computer Prog & Data Literacy	Algorithm Analysis	to Internet	Introductory
Topics in Computer Science	COT 4930	POS2041 or AMH2020 (3)	Architecture	for Everyone	with Python	Computing	Statistics STA 2023 (3)
Topics in Computer Science	COT 5930	Soc & Hum Behavior	CDA 4102 (3)	COP 1034C (3)	COP 3410 (3)	COP 3813 (3)	STA 2023 (3)
Directed Independent Study	COT 4900	IFP (3)	A				
Grade of "C" or better REQUIRED in all green, blue, orange, and WAC courses		College Writing 2 ENC1102 (3) WAC College Writing 1 ENC1101 (3) WAC	Foundations of Computing COT 2000 (3)	Introduction to Programming in Python COP 2034 (3)			Methods of Calculus MAC 2233 (3) Pre: MAC 1105

LEGEND:

