

UTSA Bachelor of Science in Computer Science
Cyber Operations Track – Recommended
2020-2022 Catalog

FALL

SPRING

FIRST YEAR

MAT 1214	Calculus I	4		MAT 1224	Calculus II	4
CS 1083	CS 1083 Prog. 1 for Computer Scientists	3		CS 1714	Computer Programming II	3/1
AIS 1203	Academic Inquiry & Scholarship	3		WRC 1023	Freshman Comp II (Q)	3
WRC 1013	Freshman Comp I (Q)	3		CORE	Life & Physical Sciences	3
CORE	Life & Physical Sciences	3				
TOTAL		16		TOTAL		14

SECOND YEAR

CS 2124	Data Structures	4		CS 3113	Principles of Cyber Security	3
CS 2233	Discrete Structures	3		CS 3424	Systems Programming	4
CS 3333	Operating Systems	3		CS 3443	Application Programming	3
CORE	Lang, Philosophy, & Cult.Social &	3		CS 3844	Computer Organization	4
CORE	Behavioral Sciences	3				
TOTAL		16		TOTAL		14

THIRD YEAR

CS 3343	Analysis of Algorithms	3		CS 3723	Programming Languages	3
CS 3433	Computer and Information Security	3		CS 4353	Unix and Network Security	3
CS 3733	Operating Systems	3		CS 3743	Database Systems	3
CS 3873	Computer Networks	3		CS 4363	Cryptography	3
CORE	American History	3		CORE	American History	3
TOTAL		15		TOTAL		15

FOURTH YEAR

CS 4653	Software and Malware Reverse Engineering	3		CS 4683	Secure Software Development & Analysis	3
CS 4663	Distributed and Cloud Systems Security	3		CS 3xx3/4xx3***	Cyber Security Elective	3
CS 4643	Cellular and Mobile Technologies	3		CS 3xx3/4xx3***	Cyber Security Elective	3
CORE	Creative Arts	3		CORE	Component Area Option	3
CORE	Government -Political Sci.	3		CORE	Government-Political Sci.	3
TOTAL		15		TOTAL		15

Cyber Operations (CO) Track is a new program option for students in the current BS in Computer Science (BSCS) degree. Students graduating with this option will have Cyber Operations Track indicated as part of their BSCS degree. The objective of the Cyber Operations Track is to provide rigorous curriculum in cybersecurity with a focus on offensive cyber operations while balancing theoretical foundations and experiential learning.

***Must be approved by CS Department.