

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CYBERSECURITY)

Web Site: <https://twu.edu/computer-science/degree-programs/cybersecurity/>

Plan of Study

First Year

Fall	TCCN	SCHs
CSCI 1423 Programming Fundamentals I & CSCI 1421 and Programming Fundamentals I - Laboratory		4
ENG 1013 Composition I	ENGL 1301	3
HIST 1013 History of the United States, 1492-1865	HIST 1301	3
UNIV 1231 Learning Frameworks: First-Year Seminar	EDUC 1100, EDUC 1200, EDUC 1300	1
Mathematics Core (Math 1313 suggested)		3
Social & Behavioral Sciences Core		3

SCHs 17

Spring	TCCN	
CSCI 2493 Programming Fundamentals II	COSC 1437	3
ENG 1023 Composition II	ENGL 1302	3
HIST 1023 History of the United States, 1865 to the Present	HIST 1302	3
MATH 2014 Calculus I	MATH 2413	4
Creative Arts Core		3

SCHs 16

Second Year

Fall	TCCN	
CSCI 3053 Data Structures		3
CSCI 3423 Database Management		3
POLS 2013 U.S. National Government	GOVT 2305	3
Life & Physical Sciences Core		3
Language, Philosophy, & Culture Core		3

SCHs 15

Spring	TCCN	
CSCI 2443 Computer Organization and Machine Language	COSC 2425	3
CSCI 3503 Operating Systems		3
POLS 2023 Texas Government	GOVT 2306	3
CAO: Women's Studies (MATH 2053 recommended)		3
Life & Physical Sciences Core		3

SCHs 15

Third Year

Fall	TCCN	
CSCI 3413 Software Engineering		3

CSCI 3443 Digital Logic and Computer & CSCI 3441 Architecture and Digital Logic and Computer Architecture - Laboratory	4
CSCI 2513 Information Security and Ethics	3
Computer Science Electives	6

SCHs 16

Spring	TCCN	
CSCI 3613 Algorithm Analysis and Design		3
CSCI 3713 Fundamentals of Cryptography		3
CSCI 4343 Digital Forensics		3
MATH 3013 Discrete Mathematics		3
Elective		3

SCHs 15

Fourth Year

Fall	TCCN	
CSCI 4313 Networking and Data Communication		3
CSCI 4483 Digital Trust and Privacy		3
Computer Science Elective		3
Elective		3
Elective		2

SCHs 14

Spring	TCCN	
CSCI 4623 Big Data and High Performance Computing or 4723 or Machine Learning		3
CSCI 4463 Ethical Hacking and Systems Defense		3
MATH 3073, Matrix Methods 2024 or Calculus II ,or 4013 or Probability and Statistics	MATH 2414	3
Computer Science Elective		3

SCHs 12

Total SCHs: 120