

# BACHELOR OF SCIENCE IN COMPUTER SCIENCE

**Web Site:** <https://twu.edu/computer-science/degree-programs/bs-in-computer-science/>

## Recommended Plan of Study

### First Year

Fall	TCCN	SCHs
CSCI 1421 Programming Fundamentals I - Laboratory		1
CSCI 1423 Programming Fundamentals I	COSC 1436	3
ENG 1013 Composition I	ENGL 1301	3
HIST 1013 History of the United States, 1492-1865	HIST 1301	3
UNIV 1231 Learning Frameworks: The First Year Experience	EDUC 1100, EDUC 1200, EDUC 1300	1
Mathematics Core (Math 1313 suggested)		3
Social/Behavioral Science Core		3
SCHs		17

Spring	TCCN	SCHs
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 (CAO Core)	MATH 2413	4
Creative Arts Core		3
SCHs		16

### Second Year

Fall	TCCN	SCHs
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, and Culture Core		3
SCHs		15

Spring	TCCN	SCHs
CSCI 2443 Computer Organization and Machine Language	COSC 2425	3
CSCI 3503 Operating Systems		3
MATH 2053 Women and Minorities in Engineering, Mathematics, and Science		3
POLS 2023 Texas Government	GOVT 2306	3
Life/Physical Science Core		3
SCHs		15

### Third Year

Fall	TCCN	SCHs
CSCI 3413 Software Engineering		3
CSCI 3443 Digital Logic and Computer Architecture		3

CSCI 3441 Digital Logic and Computer Architecture - Laboratory		1
CSCI Elective (Major)		3
Minor		3
Minor		3
SCHs		16

Spring	TCCN	SCHs
CSCI 3613 Algorithm Analysis and Design		3
MATH 3013 Discrete Mathematics		3
Minor		3
Elective		6
SCHs		15

### Fourth Year

Fall	TCCN	SCHs
CSCI 4313 Networking and Data Communication		3
CSCI elective (Major)		3
Minor		3
Minor (Upper Level)		3
Elective		2
SCHs		14

Spring	TCCN	SCHs
MATH 3073 Matrix Methods		3
CSCI elective (Major)		3
Minor (Upper Level)		3
Elective		3
SCHs		12
Total SCHs:		120