

ACCELERATED B.S. IN DATA SCIENCE & INFORMATICS (DATA SCIENCE) / M.S. IN INFORMATICS (DATA SCIENCE)

Web Site: <https://twu.edu/informatics/undergraduate-programs/>

Recommended Plan of Study

First Year

Fall		TCCN	SCHs
CSCI 1423 & CSCI 1421	Programming Fundamentals I and Programming Fundamentals I - Laboratory		4
CSCI 1513	Introduction to Informatics		3
MATH 1703	Elementary Statistics I	MATH 1342	3
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
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 1713	Elementary Statistics II		3
Creative Arts Core			3
SCHs			15

Second Year

Fall		TCCN	
CSCI 3053	Data Structures		3
MATH 1013	Financial and Quantitative Literacy	MATH 1332	3
NURS 2213	Introduction to Health Informatics		3
CSCI 3423	Database Management		3
Life/Physical Sciences Core			3
SCHs			15
Spring		TCCN	
CSCI 2513	Information Security and Ethics		3
CSCI 3513	Information Systems Project Management		3
POLS 2023	Texas Government	GOVT 2306	3
Life/Physical Sciences Core			3
Language, Philosophy, & Culture Core			3
SCHs			15

Third Year

Fall		TCCN	
CSCI 3603	Foundations of Data Science		3

CSCI 4723	Machine Learning		3
POLS 2013	U.S. National Government	GOVT 2305	3
LS 3053	Interdisciplinary Information Retrieval		3
Social & Behavioral Science Core			3
SCHs			15
Spring		TCCN	
CSCI 3113	Fundamentals of SAS Programming		3
CSCI 3703	Interface Design and Development		3
CSCI 4303	Advanced Modeling and Visualization		3
CSCI 4513	Data Warehousing		3
Multiculture Women's Studies (CAO) Core			3
SCHs			15
Fourth Year		TCCN	
Fall			
CSCI 5103	Fundamentals of Informatics		3
CSCI 5203	Database Systems		3
HS 3383	Legal and Ethical Issues in Health Informatics		3
CSCI 4823	Principles of Data Mining		3
Elective (Global Perspective course)			3
SCHs			15
Spring		TCCN	
CSCI 5413	Data Communication Networks		3
CSCI 5673	Big Data: Management, Access, and Use		3
Elective (3000-4000 CSCI)			3
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General Elective			1
SCHs			13
Total SCHs:			120