

BACHELOR OF SCIENCE IN INFORMATICS (DATA SCIENCE MINOR)

Total Semester Credit Hours (sch): 120

Major: 42 sch Minor: 18 sch

INFO.BS CIP Code: 11.0104.00

Degree Requirements

Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I	3
ENG 1023	Composition II	3
Mathematics		3
Life & Physical Sciences		6
Language, Philosophy, & Culture		3
Creative Arts		3
HIST 1013	History of the United States, 1492-1865	3
HIST 1023	History of the United States, 1865 to the Present	3
GOV 2013	U.S. National Government	3
GOV 2023	Texas Government	3
Social & Behavioral Sciences		3
CAO: Women's Studies		3
CAO: First Year Seminar, Wellness or Mathematics		3
Total SCHs		42

Courses Required for Major

Code	Title	SCHs
CSCI 1513	Introduction to Informatics	3
CSCI 1423	Programming Fundamentals I	3
CSCI 2493	Programming Fundamentals II	3
CSCI 3013	Applied Computational Thinking	3
CSCI 3053	Data Structures	3
CSCI 3423	Database Management	3
CSCI 4313	Networking and Data Communication	3
MATH 1713	Elementary Statistics II	3
CSCI 3513	Information Systems Project Management	3
CSCI 3703	Interface Design and Development	3
LS 3053	Interdisciplinary Information Retrieval	3
NURS 2213	Introduction to Health Informatics	3
HS 3383	Legal and Ethical Issues in Health Informatics	3
CSCI 4923	Capstone in Interprofessional Informatics	3
Total SCHs		42

Courses Required for Minor (18 hours approved by advisor)

Code	Title	SCHs
CSCI 3113	Fundamentals of SAS Programming	3
CSCI 2513	Information Security and Ethics	3
CSCI 4303	Advanced Modeling and Visualization	3

CSCI 4523	Advanced Data Design	3
CSCI 4623	Big Data and High Performance Computing	3
CSCI 4723	Machine Learning	3
CSCI 4823	Principles of Data Mining	3
MATH 2014	Calculus I	4
MATH 4013	Probability and Statistics	3

Electives

Code	Title	SCHs
MATH 1703	Elementary Statistics I (may be applied from core)	3

Electives (3 sch global perspectives) 15

Total SCHs 18

Plan of Study

First Year

Fall	TCCN	SCHs
ENG 1013	Composition I ENGL 1301	3
HIST 1013	History of the United States, 1492-1865 HIST 1301	3
CSCI 1421	Programming Fundamentals I - Laboratory	1
CSCI 1513	Introduction to Informatics	3
MATH 1703 (Recommended Core)	Elementary Statistics I MATH 1342	3
CSCI 1423	Programming Fundamentals I COSC 1436	3
UNIV 1231	Learning Frameworks: The First Year Experience EDUC 1100, EDUC 1200, EDUC 1300	1
SCHs		17

Spring

TCCN	SCHs	
ENG 1023	Composition II ENGL 1302	3
HIST 1023	History of the United States, 1865 to the Present HIST 1302	3
CSCI 2493	Programming Fundamentals II COSC 1437	3
Creative Arts Core		3
MATH 1713	Elementary Statistics II	3
SCHs		15

Second Year

Fall	TCCN	SCHs
GOV 2013	U.S. National Government GOVT 2305	3
CSCI 3053	Data Structures	3
Life/Physical Sciences Core		3

NURS 2213	Introduction to Health Informatics		3	CSCI 4923	Capstone in Interprofessional Informatics		3
MATH 1013 (Recommended Core CAO)	Financial and Quantitative Literacy	MATH 1332	3	Elective (Upper Level)			3
	SCHs		15	Elective			3
				Elective			1
Spring		TCCN		<hr/>		SCHs	13
GOV 2023	Texas Government	GOVT 2306	3			Total SCHs:	120
CSCI 3013	Applied Computational Thinking		3	(GP) satisfies global perspectives graduation requirement.			
Life/Physical Sciences Core			3				
Language, Philosophy, & Culture Core			3				
CSCI 3513	Information Systems Project Management		3				
	SCHs		15				
Third Year							
Fall		TCCN					
LS 3053	Interdisciplinary Information Retrieval		3				
CSCI 3423	Database Management		3				
Multicultural Women's Studies (CAO) Core			3				
Minor Course			3				
Social & Behavioral Science Core			3				
	SCHs		15				
Spring		TCCN					
Elective (Upper Level Major Discipline)			3				
Minor Course			3				
CSCI 3703	Interface Design and Development		3				
Minor Course			3				
Elective (Upper Level)			3				
	SCHs		15				
Fourth Year							
Fall		TCCN					
Minor Course			3				
Minor Course (Upper Level)			3				
Elective (GP)			3				
CSCI 4313	Networking and Data Communication		3				
HS 3383	Legal and Ethical Issues in Health Informatics		3				
	SCHs		15				
Spring		TCCN					
Minor Course (Upper Level)			3				