COMPUTER SCIENCE MINORS

Course selections are tailored to the student's needs in consultation with departmental advisors.

Clinical Applications (Health Informatics)

Code	Title	SCHs
NURS 3213	Business Analysis of Health-Generated Data	3
NURS 3223	Internet Resources for Health Promotion	3
NURS 4113	Applications and Devices for Health Promotion	3
NURS 4213	Interface Design in Health Informatics	3
NURS 4313	Telecommunications/Networking for Remote Management	3
NURS 4723	Applied Statistics in Healthcare Informatics	3
Total SCHs		**18**

Community Informatics

Code	Title	SCHs
CSCI 4623	Big Data and High Performance Computing	3
CSCI 4823	Principles of Data Mining	3
LS 3153	Knowledge Economy	3
Any Community Informatics related courses approved by advisor		9
Total SCHs		**18**

Computer Science

The minor requires 18 semester credit hours of coursework, some of which may have prerequisites.

Code	Title	SCHs
CSCI 2493	Programming Fundamentals II	3
CSCI 3053	Data Structures	3
CSCI 3423	Database Management	3
CSCI 4313	Networking and Data Communication	3
Select two of the following		**6**
CSCI 3703	Interface Design and Development	
CSCI 4303	Advanced Modeling and Visualization	
CSCI 4723	Machine Learning	
CSCI 4823	Principles of Data Mining	
Total SCHs		**18**

A departmental computer science faculty advisor must approve the minor program.

Cybersecurity

The minor in Cybersecurity prepares students with basics in cybersecurity field. The minor requires 18 semester credit hours of coursework.

Code	Title	SCHs
CSCI 2513	Information Security and Ethics	3
CSCI 3423	Database Management	3
CSCI 4313	Networking and Data Communication	3
Electives		
Select three of the following		9
CSCI 3713	Fundamentals of Cryptography	
CSCI 4343	Digital Forensics	
CSCI 4463	Ethical Hacking and Systems Defense	
CSCI 4483	Digital Trust and Privacy	
Total SCHs		**18**

A departmental computer science faculty advisor must approve the minor program.

Data Science

The minor in Data Science, concerned with the extraction of knowledge from data, employs techniques and theories drawn from many fields within the broad areas of mathematics, statistics, computer science, and information technology. The minor requires 18 semester credit hours of coursework, some of which may have prerequisites.

Code	Title	SCHs
CSCI 3113	Fundamentals of SAS Programming	3
CSCI 3423	Database Management	3
CSCI 3603	Foundations of Data Science	3
CSCI 4303	Advanced Modeling and Visualization	3
CSCI 4623/5673	Big Data and High Performance Computing (graduate course required for accelerated track students)	3
CSCI 4823	Principles of Data Mining	3
Total SCHs		**18**

A departmental computer science faculty advisor must approve the minor program.