

MASTER OF SCIENCE IN DATA SCIENCE & INFORMATICS (HEALTH STUDIES)

Web Site: <https://twu.edu/informatics/graduate-program/>

Degree Requirements

Effective July 29, 2024: Students without a background in Informatics may be required to complete the proficiency foundational coursework CSCI 5001 and CSCI 5011 at the determination of the program coordinator.

Total Semester Credit Hours Required

The degree program consists of a minimum of 30 semester credit hours (SCH) of graduate coursework, 12 of which are foundations in computer science and 18 of which are discipline-specific coursework, including three SCHs in software/statistical tools. The program is completed with an interprofessional, interdisciplinary capstone project.

Recommended course sequence

1. Students requiring proficiency in courses CSCI 5003 and CSCI 5203 should complete these courses before enrolling in other classes.
2. CSCI 5103 should be taken in the first semester of study.
3. CSCI 5123 and CSCI 5573 should be taken in the first year of study.
4. CSCI 5923 should be taken in the last semester of study.

All other courses may be taken in any sequence unless a required prerequisite is noted. Contact the advisor if you have any questions.

Code	Title	SCHs
Proficiency Courses (may be waived)		0-6
CSCI 5003	Information Systems Infrastructure and Programming	
CSCI 5203	Database Systems	
Computer Science Core		
CSCI 5103	Fundamentals of Informatics	3
CSCI 5123	Foundations of Information Systems Security	3
CSCI 5573	Foundations of Data Science	3
CSCI 5673	Big Data: Management, Access, and Use	3
Total SCHs		12-18

Application Area: Health Studies Option

Code	Title	SCHs
Required Courses		
HS 5353	Epidemiology	3
HS 5453	Community-Based Health Informatics	3
HS 5773	Social and Organizational Issues in Health Informatics	3
HS 5923	Capstone in Informatics	3
Select two of the following		6
HS 5343	Risk Reduction	
HS 5363	Population Health	

HS 5413	Current Issues in Health Promotion
HS 5613	Worksite Health Promotion
HS 6423	Global Health
HS 6443	Theoretical Foundations of Health Promotion
MGT 5743	Project Management

Total SCHs **18**

Cooperative Education

In order for coursework in Cooperative Education to be counted as degree credit, department and advisory committee approval must be received during the semester in which the course is taken. This approval is in addition to approval to enroll in Cooperative Education coursework. Only three semester credit hours of Cooperative Education may be counted toward the Master's degree.