

# MASTER OF SCIENCE IN INFORMATICS (SPORTS)

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

## Degree Requirements

### Total Semester Credit Hours Required

The degree program consists of a minimum of 36 semester credit hours (SCH) of graduate coursework comprised of 15 SCH of foundations in computer science, 15 SCH of discipline-specific coursework in one of the application areas below, and 3 SCH in software/statistical tools. The program is completed with an interprofessional, interdisciplinary capstone project.

### Recommended course sequence

CSCI 5103 should be taken in the first semester of study.

CSCI 5203 should be taken in the first year of study.

Capstone in Informatics should be taken in the last year 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
<b>Computer Science Core</b>		
Required Courses		
CSCI 5103	Fundamentals of Informatics	3
CSCI 5203	Database Systems	3
CSCI 5673	Big Data: Management, Access, and Use	3
Select two of the following		6
CSCI 5123	Foundations of Information Systems Security	
CSCI 5413	Data Communication Networks	
CSCI 5443	Human-Computer Interface	
CSCI 5513	Data and Information Visualization	
CSCI 5573	Foundations of Data Science	
CSCI 5803	Data Warehousing	
CSCI 5823	Modeling Machine Learning	
CSCI 5833	Data Mining and Analysis	
<b>Software/Statistical Tools</b>		<b>3</b>
Select one of the following (in consultation with advisor)		
CSCI 5663	Statistical Programming	
HS 5703	Applied Statistics in Health Promotion	
KINS 5033	Applied Statistical Principles	
MATH 5573	Statistical Methods I	
MATH 5583	Statistical Methods II	
MKT 5153	Research Methods in Business	
NURS 6933	Analysis of Nurse-Generated Data	
PSY 5304	Advanced Psychological Statistics I	
<b>Application Area (see options below)</b>		<b>15</b>
<b>Interprofessional Capstone</b>		<b>3</b>
Select one of the following in consultation with advisor		
CSCI 5923	Capstone in Informatics	
HS 5923	Capstone in Informatics	
KINS 5753	Capstone in Informatics	
LS 5923	Capstone in Informatics	

NURS 5923	Capstone in Informatics	
<b>Total SCHs</b>		<b>36</b>

### Application Area: Sports Informatics Option

Code	Title	SCHs
KINS 5293	Technical Skills Analysis	3
KINS 5303	Coaching Tactical Skills	3
KINS 5253	Organization and Administration for Effective Team Management	3
KINS 5203	Theory of Coaching	3
KINS 5243	Sport Injury Prevention and First Aid	3
<b>Total SCHs</b>		<b>15</b>

### 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.