Information Technology

The Master of Science in Information Technology (MSIT) program will prepare students for leadership roles in the IT sector. This program will train the next generation of IT professionals who are interested in broadening and gaining deeper knowledge of new and emerging technologies. The program will provide students with a strong foundational core of theoretical knowledge as well as deeper knowledge and skills in the areas of specialization. The three areas of specialization presently available are Cybersecurity, Database Management, and Network Operations, Performance and Security.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (http://catalog.uwf.edu/graduate/admissions) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal score of at least 150 and Quantitative of at least 145.
  - Miller Analogies Test (MAT)
- Minimum undergraduate cumulative GPA of 3.0
- Undergraduate degree major
- The applicant's motivation for pursuit of a Master of Science in Information Technology degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Information Technology degree described in a letter of intent written by the applicant
- Indication of the applicant's ability to succeed in our graduate program as reflected in three letters of recommendation

Cybersecurity and Database Management

Building	Phone	Website	Email
Building 4, Room 223	850-474-3241	https://uwf.edu/computerscience	computerscience@uwf.edu

Network Operations, Performance and Security

Building	Phone	Website	Email
Building 4, Room 326	850-474-2098	https://uwf.edu/informationtech	informationtech@uwf.edu

Cybersecurity Specialization

This specialization will train the next generation of IT professionals who are interested in broadening and deepening their knowledge of new and emerging technologies in the area of Cybersecurity. The coursework prepares students for leadership roles in cyber-related positions in public, nonprofit, and private organizations and also for admission to doctoral programs and professional schools.

MSIT Core (12 sh)

MAN 6156	Management and Organizational Behavior	3
COP 5007	Software Engineering Foundations: Java Programming	3
COP 5725	Database Systems	3
CIS 6379	Applied Information Security	3
Total Hours		12

Cybersecurity Specialization (18 sh)

CEN 6016	Software Engineering Process	3
CEN 6074	Software Assurance and Security	3
CIS 6376	Database Security	3
Advisor Approved Elective		3
COT 6931	Computer Science Project	6
Total Hours		18

Database Management Specialization

This specialization will train the next generation of IT professionals who are interested in broadening and deepening their knowledge of new and emerging technologies in the area of Databases. The coursework prepares students for leadership roles in Database fields in public, nonprofit, and private organizations and also for admission to doctoral programs and professional schools.

MSIT Core (12 sh)

MAN 6156	Management and Organizational Behavior	3
COP 5007	Software Engineering Foundations: Java Programming	3
COP 5725	Database Systems	3
CIS 6379	Applied Information Security	3
Total Hours		12

Database Management Specialization (18 sh)

CAP 5771	Data Mining	3
COP 5775	Database Administration	3
COP 6727	Advanced Database Systems	3
Advisor Approved Elective		3
COT 6931	Computer Science Project	6
Total Hours		18

Network Operations, Performance and Security

The Network Operations, Performance and Security specialization of the Master of Science in Information Technology degree program encompasses three essential areas; information routing, efficiency and security. Students graduating from this program will be prepared to prevent and/or resolve under-performance in network systems and security breach incidents.

Students will complete 12 credit hours in the Information Technology Core and 18 hours of Network Operations, Performance and Security Specialization courses, including a two-semester, six-credit hour capstone experience that will provide students with hands on experience applying learned knowledge, skills and abilities in real-world settings.

Program Prerequisite

COP 2253 Programming Using Java (3 s.h.)

Information Technology Core

MAN 6156	Management and Organizational Behavior	3
COP 5007	Software Engineering Foundations: Java Programming	3
COP 5725	Database Systems	3

CIS 6379	Applied Information Security	3
Total Hours		12

Network Operations, Performance and Security Specialization

CET 6790C	Network Infrastructure and Operations	3
CET 6882C	Network Performance Monitoring and Security	3
COP 5775	Database Administration	3
CIS 6376	Database Security	3
CET 6666	NOPS Project	3
Total Hours		15