

Master of Science in Applied Security and Analytics

Program Overview





Become a Big Data & Cybersecurity Leader

Businesses, health care institutions, higher education and government agencies are using big data to determine trends and predict human behavior. With big data, however, comes big security risks for IT systems. The use of big data is already leading to a surge in executive-level roles for leaders who can secure data, understand analytics and drive an organization's success.

A Master of Science in Applied Security and Analytics from the University of Findlay can jumpstart your career by expanding your IT knowledge in the areas of security and analytics. Students will develop skills using Excel, Access, SQL Server, Tableau, R, SPSS and other industry used software products. You'll also hone your business skills in finance, strategic planning, project management and, most importantly, the art of managing people in an information technology environment.

A graduate degree from the University of Findlay can prepare you for newly emerging positions, such as:

- Security Manager
- Data Quality Analyst
- Business Intelligence Analyst
- Source Code Auditor
- Data Scientist
- Tableau Developer

PSM DEGREE

Findlay's Master of Science in Applied Security and Analytics is an affiliated professional science master's program.

COMPLETE IN TWO YEARS

Full-time students take nine hours per semester to complete in two fall terms and two spring terms. Part-time students are also welcome!

CONVENIENT

Courses are offered in the evening and online to accommodate working adults in the program.

CURRENT INDUSTRY TRENDS

UF stays up-to-date on current industry trends through an advisory board of local industry leaders.

INNOVATIVE PROGRAM

Findlay is the only institution in Ohio offering this type of master's degree.

Curriculum Information

The Master of Science in Applied Security and Analytics requires the completion of both technical and professional components for a total of 33 semester hours.

Professional Component

ENVM 515 Accounting and Financial Analysis for Technical Managers	3 hrs.
ENVM 625 Project Management and Planning	3 hrs.
MBA 665 Management of Information and Technology	3 hrs.

Technical Component

CSCI 510 Applied Security Principles	3 hrs.
CSCI 523 Statistical Methods for Business Analytics	3 hrs.
CSCI 560 Secure Coding	3 hrs.
CSCI 580 Advanced Software Engineering	3 hrs.
CSCI 590 Data Mining for Decision Making	3 hrs.
CSCI 613 Risk Management for Information Systems	3 hrs.
CSCI 690 Data Visualization and Predictive Analytics	3 hrs.
CSCI 697 Capstone Project Development	1 hr.
CSCI 698 Capstone Project	2 hrs.

Admission Requirements

- ① An earned bachelor's degree (B.A., B.S.) from an accredited university in computer science or related discipline.
- ② A minimum GPA of 3.0 or permission of the UF program director.
- ③ Course background:
 - **Programming** – including instruction in data structures
 - **Mathematics** – college credit at least at the level of college algebra
 - **Databases** – database management and SQL experience
 - **Computer Networking** – understanding of data communications and computer networks
 - **Computer Organizing/Operating Systems**
 - **Software Engineering**
- ④ Work/internship experience in the computer science field is preferred

** Final evaluation of transcripts at discretion of UF program director and faculty. Note that bridge courses or undergraduate offerings will be available to those who do not have this background.*

Students whose native language is not English and who have not graduated from an English speaking university in the United States, United Kingdom, Australia, New Zealand, Ireland or Canada must meet the previously listed admissions conditions, plus submit:

1. A verified TOEFL Internet-based test (iBT), IELTS or Pearson Test of English is required. The TOEFL total score must be a minimum of 79 with 20 or better in speaking and 20 or better in writing. International English Language Testing System (IELTS) must be a minimum overall band score of 6.5 with a minimum 6.0 score in the reading and writing sub bands. A 6.0 in all other bands is recommended, but not required. The Pearson Test of English (academic) score must be a minimum of 61. Full admission is dependent on satisfying all admission requirements. Students may receive conditional admission, if not supplying a TOEFL, IELTS or Pearson score at the acceptable level. These students are required to test in the Intensive English Language Program, and if necessary, complete coursework in English.
2. An affidavit of financial support (original), if not an American citizen or permanent resident.



University of Findlay

OFFICE OF ADMISSIONS

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