

IT 4773: Machine Learning for Enterprise Applications

3 Credit Hours

Prerequisite: IT 3703

This course covers enterprise applications of machine learning on data analytics. Topics span the complete life cycle of data analytics from envisioning the problem, identifying proper data, selecting suitable machine learning methods, evaluating modeling performance, and deploying the results to improve decision-making.

IT 4793: Applied Data Driven Solutions

3 Credit Hours

Prerequisite: IT 3703

This course will apply data technologies and applications in a chosen application domain and expose students to real world problems and issues. Students will analyze, design, and develop a practical and technical data driven solution in a chosen field, such as healthcare, finance, security, social media, academia, sports, and utilities.

IT 4823: Information Security Administration & Privacy

3 Credit Hours

Prerequisite: (CSE 2300 or MATH 2345) and (IT 3123 or CS 3503)

The student develops knowledge of the principles of information assurance at the policy, procedural, and technical levels to prepare the student for a role as a business decision-maker. Real-world examples from the text and current events will be used to demonstrate the applicability of the techniques of information assurance.

IT 4833: Wireless Security

3 Credit Hours

Prerequisite: IT 4323 or ECET 3400 or CS 4622

This course covers methods and techniques to secure wireless networks against threats and attacks. The topics may include Security and Cryptography, Network Security Protocols, Security and Layered Architecture, Voice-Oriented Wireless Networks, Data-Oriented Wireless Networks, Security in Traditional Wireless Networks, Security in Wireless LAN, Security in Wireless Ad Hoc Network, Special Topics such as Mobile Security.