

INFORMATION SYSTEMS (IS)

IS224 Introduction to Business Analytics (3.0 Credits)

Explore spreadsheet and data analysis tools and learn their applications in business. Learn to use MS Excel and data analysis software for calculating, presenting data in tables and cross-tabulations, and creating charts and graphs. Examine spreadsheets and data visualizations and understand how they are designed and used as key components in business.

Prerequisite(s): Basic proficiency in MS Word, Excel, and PowerPoint.

IS312 Data Analytics for Business (3.0 Credits)

This course studies methods for data visualization, and methods for finding relationships in numerical data or textual data using such techniques as regression analysis, logistic analysis, clustering, and K nearest neighbors. Excel, Python, and other freely available software packages will be used to analyze a variety of business operational and strategic problems. Open to all majors. This course is cross-listed with CS212.

Prerequisite(s): CS120 or equivalent, or CS220, or permission of the instructor.

IS320 Management Information Systems (3.0 Credits)

Study management and organization structures with emphasis on information system requirements. Consider a variety of information systems as they relate to business and to specific organizations. Discuss the MIS requirements of small and large organizations, including both manual and automated systems with emphasis on computer-based information systems.

Prerequisite(s): IS224.

IS422 Enterprise Cybersecurity (3.0 Credits)

This course will provide students with an introduction to cybersecurity and the current threats to enterprises. It focuses on building awareness for how best to defend an enterprise's information systems and networks as well as policies and procedures that should be in place to react to and manage a cyberattack or data breach.

Prerequisite(s): IS312 or IS320.