

Careers in Information Technology

Career Path: Management Information Analytics

Information analysts plan and carry out security measures to protect an organization's computer networks and systems. They are heavily involved with creating their organization's disaster recovery plan, a procedure that IT employees follow in case of emergency.

Information security analysts must stay up to date on IT security and on the latest methods attackers are using to infiltrate computer systems. Analysts need to research new security technology to decide what will most effectively protect their organization. Their responsibilities are continually expanding as the number of cyber attacks increases.



Recommended Course:

For students interested in a career in the field of information analytics, the following elective course is recommended. This course enhances a student's knowledge of information analytics, database programming, data mining and business analytics.

ITM3312 Database Programming

Covers the principles of relational database programming using a case-based, problem-solving approach. The use of tables, queries, forms, reports, embedded SQL, dynamic SQL, and ODBC interfaces are studied. Students learn the essentials of developing database applications, including design, creation, and maintenance. Prerequisite: ITM3311

These courses are recommended as liberal arts or free electives:

BUS2210 Business Intelligence and Analytics

Introduces students to the fast-growing field of business intelligence and analytics. Provides a general understanding of quantitative methods, analytical software, and data analysis to help students comprehend and analyze contemporary business issues and problems. The emphasis is placed on critical thinking and quantitative reasoning skills.

BUS4420 Data-Mining for Business Analytics

Provides an overview of the fundamental principles and techniques of data-mining for business analytics. Examines case studies to place data-mining techniques in context, and to develop data-analytic thinking. Emphasis will be placed on real-world applications to illustrate that proper application of data-mining is as much an art as it is a science. Students will work "hands-on" with analytics/data mining software. Prerequisites: BUS2210 or MAT2215

MAT2212 Quantitative Methods

Introduces students to the personal use of mathematics and the applications for various business disciplines. This course will explore the business applications of linear functions, quadratics functions, and systems of linear equations. Emphasis will be placed on the use of Excel to solve real-world business problems. Prerequisite: CSK85 or placement-based score.

MGT3345 Managing with Information Systems

Explores and discusses the nature of information systems and how managers can access and utilize company information systems. Students will learn the principles behind information and decision support systems and will examine individual, group, and executive decision support systems. Prerequisite: MGT2220

Career Paths are not minors or concentrations and will not be noted on a student's transcript or diploma. Career Paths are suggested electives to fill elective credits.