The Department of Business Information Technology (BIT) offers an undergraduate major. Our students learn the necessary information technology and computing skills, plus quantitative and modeling techniques, to develop and implement sophisticated business-related computer systems. The degree program especially focuses on the practical application of computing to business problem-solving.

**Programs**

**Business Decision Analysis**
For those in managerial positions, this program develops the ability to make effective decisions or to contribute to the decision-making process. The ability to use statistical methods and mathematical techniques has become increasingly important as low-cost and more powerful information technology becomes accessible and enables the use of more sophisticated techniques. The examples used in this course will cover a variety of problems encountered in the workplace.

**Linear Programming: Modeling**
This program is designed for senior and mid-level management in all areas which have responsibility for making resource-constrained decisions. The program provides an understanding of mathematical model structure, solution alternatives, analysis methodologies, and appropriate areas of application.

**Project Management: The Technical Aspects**
The course is guided by the following themes: process-improvement strategy for competitive survival is the natural breeding ground of projects; project budgets, plans and schedules should be modeled and analyzed quantitatively; project planning and scheduling is most effective when it is implemented with the aid of computerized decision support systems that are specifically designed for project management; project management is a highly-valued field of professional expertise which integrates strategic, tactical and operational initiatives and combines analytical and organizational capabilities in a holistic methodology.

**Supply Chain Management**
In this course we survey the most widely-used models and information systems for supply-chain management with four specific objectives: the implementation of decision support systems as a means of process improvement of supply chains, understanding the role of quantitative decision models in supply chain management, integrating the many domains of supply chain management into a hierarchical planning and control scheme, and implementing enterprise requirements planning systems and other softwares for supply-chain management functions.

**Supply Chain Forecasting**
The program provides an overview of the role of forecasting. The course covers basic forecasting techniques including moving average, time series, and smoothing techniques as well as advanced techniques including Collaborative Planning, Forecasting & Replenishment (CPFR) Methodologies. The program is suited for senior and mid-level management in all disciplines.

**Inventory Management**
This program will provide an overview of inventory management techniques, including the development of both basic and advanced inventory models. This program focuses on identifying the optimal amount, location, and type of inventory to position throughout a supply chain. The program is suited for senior and mid-level management in all disciplines.

**Information Systems-Extending Spreadsheets for Decision Support**
Most managers today use spreadsheets, but many do not know how to leverage Excel’s full power to provide decision support. This program provides an understanding of how database information and simple or complex models can be merged to provide real-time decision support for any manager. The program is geared for managers at any level with basic spread-sheeting knowledge.

**Process Improvement (or Continuous Improvement)**
A constant focus on business process improvement is required to remain competitive in today’s market place. The focus of this program is on the application of process improvement tools, including problem solving tools, communication tools, and data analysis tools. The goal of the application of these tools is to develop a systematic approach to continually make improvements within business operations. This program is suited to all types of employees including front-line service providers, process operators, customer service managers, and other senior and mid-level managers.