

BANA 501**Survey of Business Intelligence and Decision Making Models**

3 Credit Hours

Pre/Corequisite: P (RQ) ECON-402, ECON-406

This course is devoted to introduce decision support systems and business intelligence and covers the technologies available to support individual and group decision making in organizations. This course covers the following topics: Overview of decision support system, group decision support system, data warehousing and mining, data visualization, business intelligence, expert systems and state of the art technologies in the field. Former FINC 501.

BANA 502**Forecasting Time Series**

3 Credit Hours

Pre/Corequisite: P (RQ) MATHG-501, BANA-501

This course will cover practical time series forecasting techniques with particular emphasis on the Box-Jenkins (ARIMA) method and conditional volatility (ARCH) models. Illustrative examples applying these techniques to actual data (primarily financial and economic time series) will be presented in class, and you will perform a variety of data analyses on the computer. Former FINC 502.

BANA 530**Operations and Technology Management**

3 Credit Hours

Pre/Corequisite: P (RQ) ECON-406

The objective of this course is to develop a general managerial perspective on the role of operations management in the function of a firm, at both the tactical and strategic levels. The course will offer a broad survey of concepts and techniques in managing operations, with particular emphasis on a number of major operations management issues that can significantly affect the competitive position of a firm in the market place. This course helps students understand and build both quantitative and qualitative analysis skills, especially those needed for managing operations systems. We also discuss how the effective planning and deployment of information technology (IT) will enable organizations to compete aggressively, rapidly and globally in this digital age. We analyze the key decisions involved in the planning, operations and control of IT. Topics include: process analysis, product development, information technology, technology and operations strategy, supply chain management and forecasting.

BANA 541**Project Management Overview**

3 Credit Hours

This course introduces the student to the functions necessary for all project managers. Covering the entire project life cycle, students gain experience in the processes and phases of project management. Project phases such as selection, planning, organizing, execution, monitoring, control and closure will be reviewed. Project processes such as scope, risk, communications, quality and procurement management will be addressed.

BANA 543**Project Management Tools and Systems**

3 Credit Hours

The primary focus in this course is on the quantitative tools used in project management. The course will focus on project feasibility, justification, and detail scheduling using work breakdown structures (WBS), critical path methods (CPM) and project budgeting/costing and performance evaluation (PERT). Students will use MS Excel and MS Project to learn industry standard techniques and software for planning, executing, monitoring and controlling projects.

BANA 599**Business Analytics Strategic Capstone**

3 Credit Hours

This course is structured as a capstone practicum where students working in a small team get an opportunity to apply the acquired theoretical knowledge in analytics to solve real-world business problems in marketing, finance, operations, accounting, health care and human resources management. Student teams employ principles of decision making and leadership skills in order to define and carry out an analytics project from data collection, processing and modeling to designing the best method to solve the problem. To be taken last term of the program. Prerequisite-completion of Foundational and Applications Modules.