Module Descriptions

LEADERSHIP & TEAM DEVELOPMENT

Offers an introduction to and an overview of the concepts of Leadership and Team Development. This module will provide a framework and rationale for the team/cohort learning model in an organizational context. Emphasis is placed on the application of concepts to real managerial problems and issues. This module will use a combination of conceptual and practical approaches, lectures, discussions, case studies, and group exercises.

COMMUNICATION

This module blends research, theory and practice in the art of effective team communication, presentation and facilitation skills, team dynamics, and written skills to create a dynamic contribution to the overall effectiveness of any organization. Each student comes to this course with expertise and experience; this module will reinforce individual strengths, identify areas of growth and set goals for development in the cohort as well as the workplace.

PROFESSIONAL BUSINESS WRITING

This course focuses on effective writing techniques for professionals. Assignments include a business proposal, an employment letter, a memo, a performance evaluation, and interoffice correspondence. Since writing is a cumulative skill, an emphasis is placed on the revision process through online postings and in-class peer feedback. Students learn to communicate professionally and succinctly using a variety of business formats.

HUMAN BEHAVIOR IN ORGANIZATIONS

This is an introductory course on human behavior in the organizational setting. The focus of this module will encompass three levels of organizational behavior analysis: the individual, the group, and various modern organizational systems. There are two major goals: to provide students with a basic grounding in the most important principles in managing the human asset in organizations and to work to develop job-relevant knowledge skills. The material covered will be applicable to a wide range of organizations and students should also find topic areas relevant to daily life.

MANAGING ORGANIZATIONS

This module is designed to expand on the concepts presented and understand why management is vital to the organization's success. Students will better understand the functions and systems associated with sound management. Effectiveness and efficiency will be stressed, providing the venue for improving decision-making skills and critical analysis. Students in this module will be required to choose an organization and, along with this organization, plan, organize, lead, and control a project that produces "real" results. This course will force students to have a complete understanding of managerial theory and apply this material in a practical and effective method.

MANAGERIAL ECONOMICS

Basic principles of economics at both the macro and micro levels will be explored. Topics of supply and demand, national income accounting, monetary and fiscal policies, business cycles, money and banking, interest rate determination, market structure, elasticity, international trade policy, and budget deficit are among the long list of topics discussed in this module. A high level of student interaction will be expected. The course is taught using practical materials that provide a better understanding and use of secondary data to make interpretations regarding future business environmental forecasts.

ACCOUNTING FOR MANAGERS

This module is designed to help students use accounting information in the workplace. The course will not focus on rules of debits and credits nor the official preparation of accounting records like journals and ledgers; instead, it will focus on understanding and use of financialinformation for planning business strategy. Decsion-making, evaluation of process improvements and performance, interpretation of corporate and annual reports, and recognition of internal control systems will be the materials presented in this module.

PROJECT MANAGEMENT THEORY AND PRACTICE

This course provides the foundational management principles and theory of project management. Students will learn the fundamentals of project management, including project definition, project selection, project planning, estimating, scheduling, resource allocation, stakeholder management, risk management and project control. Cultural protocols will be considered in the development of projects. Students will apply the learned principles and theories to case studies and simulations and will actively participate in a culminating project.

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INFORMATION SYSTEMS ANALYSIS & DESIGN

This module is an applied study of information systems analysis. The course covers a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements and specifying the requirements for the information systems solution. Topics covered will include traditional and contemporary systems development lifecycles, including waterfall, object-oriented, and rapid methodologies. The role of the business analyst in scope definition, requirements analysis, and functional requirements documentation creation will be discussed. Students will learn about completing a system design using CASE tools.

DATA ANALYTICS & BUSINESS INTELLIGENCE

Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella. Students will study how data drives business and strategic planning.

INTRODUCTION TO STATISTICS FOR BUSINESS

This course introduces the use of statistical methods and tools in evaluating research data for business applications. Students will be exposed to inference and data exploration using modern statistical software and spreadsheets. Students will also be familiar with the interpretation of results. Upon completion, students should be able to apply statistical problem-solving to business. Posit and Excel will be integral to studying these topics.

PREDICTIVE STATISTICS

This course will provide an understanding of how predictive analytics are used for decision-making in different domains. Students will demonstrate an understanding of statistical methods used to obtain and evaluate forecasts and will become competent in handling data and converting it into useful information. Statistical models are implemented using modern statistical software and spreadsheets.

FUNDAMENTALS OF PROGRAMMING I

This is an introductory course on program design and programming: variables, data types, program structure, conditional logic, iteration, and event-driven programming. Modular program design, including an introduction to procedures, functions, and modular development, will be covered, as well as the project environment, compilation process, and debugging techniques. Students will learn the basic concepts of program design, programming, problem-solving, and programming logic. Program development will incorporate various stages of the program development life cycle: designing a solution, implementing a solution in a programming language, and testing the completed application. Students will utilize UML structures to aid in program design and will develop several small programming projects using a modern programming language.

DATA MINING & STRUCTURES I

Data mining is the process of extracting useful information and knowledge from a set of data. This course introduces the concepts of data mining, including techniques, implementation and benefits. Data mining covers a wide range of techniques to detect actionable patterns in data and generate predictions.

DATA MINING & STRUCTURES II

Data Mining and Structures II provides an overview of data analysis and mining techniques for managing datasets. Students will use popular data mining techniques, including supervised learning (regressions and classification) and unsupervised learning (clustering and association rules analysis). This course will introduce students to modern programming software for data mining.

MULTIDISCIPLINARY PROJECT (CAPSTONE)

Utilizing their knowledge from the previous modules, students will create a case study from a selected organization. This case must uncover one main problem for the organization and provide viable and supported solutions to help create a better situation for the organization. The main part of this capstone is that each team presents a rich enough case that the reader will, with a fair amount of certainty, be provided with enough information to allow them the opportunity to solve the case using methods and techniques gained from business knowledge and experience.

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