

BUSINESS MANAGEMENT INFORMATION SYSTEMS (BMIS)

BMIS 501 Executive Leadership and Management 3 Credit Hour(s)

This course provides a comprehensive perspective on leadership and management, from both an historical and current practices perspective. The link between management and leadership is examined and the application of leadership theory is explored.

Offered: Online

BMIS 510 Enterprise Models 3 Credit Hour(s)

Online Prerequisite: Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3 and Undergraduate Statistics Req with a score of 3 and Obj-Oriented Programming Req with a score of 3

This course provides a process-oriented view of the organization and its relationships with suppliers, customers, and competitors. Topics include using processes as vehicles for achieving strategic objectives and transforming an organization; process analysis, design, implementation, control, and monitoring; processes as a means of achieving compliance. The role of enterprise resource planning (ERP), supply chain management (SCM), and customer relationship management (CRM) systems will also be explored.

Offered: Online

BMIS 520 IT Infrastructure 3 Credit Hour(s)

Prerequisite: (Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3 and Undergraduate Statistics Req with a score of 3 and Obj-Oriented Programming Req with a score of 3) or CSIS 505

This course explores the design, implementation, and management of digital networks. Topics will include telecommunications fundamentals, server architecture, as well as cluster and grid computing. The course will explore the development of an integrated technical architecture (hardware, software, networks, and data) to serve organizational needs in a rapidly changing and competitive technological environment.

Offered: Resident and Online

BMIS 530 Systems Analysis, Modeling, and Design 3 Credit Hour(s)

Prerequisite: (BMIS 520 and Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3 and Undergraduate Statistics Req with a score of 3 and Obj-Oriented Programming Req with a score of 3) or (BMIS 520 and Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3 and Undergraduate Statistics Req with a score of 3 and Obj-Oriented Programming Req with a score of 3 and Adv Obj-Oriented Program Req with a score of 3 and Busi Data Comm Sys / Netwk Req with a score of 3) or (INFO 535 and Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3 and Undergraduate Statistics Req with a score of 3 and Prin of Human Bio / Human AP with a score of 3) or CSIS 505

This course will provide a practical look at the current methodologies and design techniques necessary for system implementation, operation, and maintenance. These include the systems development life cycle (SDLC), rapid application development (RAD), agile development, object-oriented analysis and design, prototyping, visual development, and the human computer interface (HCI).

Offered: Resident and Online

BMIS 570 Ethics and Legal Issues 3 Credit Hour(s)

This course explores the ethical and legal implications of the digitization of data, information, and communications on organizations and society. These areas are examined in regard to information privacy, accessibility, property rights, and accuracy. The proliferation of computer crime and its ramifications as well as the legal and regulatory environment will be examined. The course will also look at the impact of globalization, sourcing, technology workforce, and the digital divide.

Offered: Resident and Online

BMIS 580 Human Computer Interaction and Emerging Technologies 3 Credit Hour(s)

Online Prerequisite: BMIS 510 and BMIS 520

This course addresses emerging technologies, how they evolve, and how to identify them. Topics covered in the course include accuracy of past forecasts and how to improve them, international perspectives on emerging technologies, future organizational and customer trends, and forecasting methodologies. It further explores human characteristics and their impacts on developing human-centered information systems. Finally, emerging trends in human interaction with mobile applications, internet applications, social networking technology, cloud computing, and stand-alone applications will be explored.

Offered: Online

BMIS 601 Decision Making and Executive Information Systems 3 Credit Hour(s)

Online Prerequisite: BMIS 530 and BMIS 510 and BMIS 520

This course will provide students with an understanding of computer-based information systems and their role in modern global organizations and society as a whole. Topics will explore the capabilities and limitations of information systems based on their design and configurations. Databases will be a focus of this course, considering the central role they play in the information systems strategies of most organizations.

Offered: Online

BMIS 603 Business Simulation and Modeling 3 Credit Hour(s)

Online Prerequisite: BMIS 601 and BMIS 510 and BMIS 520 and BMIS 530

This course introduces students to the concepts of business process improvement and principles of lean thinking. This course will address the historical reasons behind the structure of organizations. Students will learn to analyze and re-conceptualize the organization in terms of business processes and how to use that knowledge to improve organizational effectiveness and efficiency.

Offered: Online

BMIS 650 Operations Management 3 Credit Hour(s)

This course provides graduate-level instruction regarding the concepts and analytic methods that are useful in understanding the management of a firm's operations. Special emphasis will be placed on familiarizing the student with the problems and issues confronting operations managers, and providing the student with language, concepts, insights and tools to deal with these issues in order to gain competitive advantage through operations. Because the course deals with the management of "processes," it applies to both for-profit and nonprofit organizations, to both service and manufacturing organizations, and to virtually any functional area or industry.

Offered: Online

BMIS 662 Telecommunications and Network Security 3 Credit Hour(s)**Resident Prerequisite:** BMIS 520 and BMIS 510**Online Prerequisite:** BMIS 510 and BMIS 520

This course develops a managerial level review of technical knowledge and terminology for data, voice, image, and video communications and computer networks to effectively communicate with technical, operational, and management people in telecommunications. The course will cover the Telecommunications and Network Security domain which encompasses topics to include: access control network structure, transmission methods, transport formats, and security measures used to maintain the integrity, availability, authentication, and confidentiality of the transmitted information over both private and public communication networks. The course will also give an overview of network security and the basics of cryptography. Additional topics include but are not limited to: threat models, authentication and authorization mechanisms and standards, public key infrastructure, electronic mail security, network layer security, transport layer and web security, packet filtering, firewalls, intrusion detection, and virtual private networks.

Offered: Resident and Online**BMIS 663 Secure Enterprise Design and Development 3 Credit Hour(s)****Online Prerequisite:** BMIS 530 and BMIS 510 and BMIS 520

This course includes studies in security architecture and applications security. A detailed look will be given at the concepts, principles, structures and standards used to design, implement, monitor and secure operating systems, equipment, networks and applications. The course will explore controls used to enforce various levels of confidentiality, integrity and availability.

Offered: Online**BMIS 664 Information Forensics, Compliance and Risk Management 3 Credit Hour(s)****Online Prerequisite:** BMIS 663 and BMIS 510 and BMIS 520

This course covers a diverse set of topics in information security and incident response. Risk Management domain involves the identification of an organization's information assets and the development, documentation, and implementation of policies, standards, procedures, and guidelines that ensure confidentiality, integrity, and availability. The Legal, Regulations, Investigations, and Compliance domains addresses computer crime laws and regulations, the investigative measures and techniques which can be used to determine if a crime has been committed, and methods to gather evidence. Incident handling provides the ability to react quickly and efficiently to malicious technical threats or incidents.

Offered: Online**BMIS 665 Information Operations and Security 3 Credit Hour(s)****Online Prerequisite:** BMIS 662 and BMIS 510 and BMIS 520 and BMIS 530

Operations Security is used to identify the controls over hardware, media and the operators with access privileges to any of these resources. This course will look at the mechanisms, tools and facilities that permit the identification of security events and subsequent actions that follow identification. The course will address the threats, vulnerabilities and countermeasures that can be utilized to physically protect an enterprise's resources and sensitive information. A study of Business Continuity and Disaster Recovery Planning addresses the preservation of the business in face of major disruption to normal business operations will also be included. The preparation, testing and updating of specific actions to protect critical business processes from the effects of major system and network failures will be explored.

Offered: Online**BMIS 680 Advanced IT Project Management I 3 Credit Hour(s)****Online Prerequisite:** BMIS 650 or (INFO 505 and Bus Cmn Pro Cpnt/27hr BUSI Req with a score of 3 and College Algebra Req with a score of 3)

This course is designed to provide students with the essential tools needed for leading and managing information technology (IT) projects. These include the traditional processes related to initiating, planning, executing, controlling, reporting and closing a project, with a focus on the unique challenges that information technology presents. These challenges include: software application size and cost estimations, assigning work to development teams, version control and managing the organizational change process. Other topics include the changing role of the IT manager in customer and partner relationship management, outsourcing and external contracts.

Offered: Online**BMIS 681 Advanced IT Project Management II 3 Credit Hour(s)**

This course explores the organizational aspects of information technology (IT) program management with the aim of providing knowledge, skills and exposure to issues in managing information and utilizing information technology as an asset in organizations. Students completing this course will be better equipped to be managers engaged in defining and implementing information systems opportunities and solutions or as leaders in an Information Systems department. Major topics include: information asset management, strategic information systems planning, information services organization issues, best practices for service level management, IT personnel selection and management, IT Procurement/request for proposal development/vendor selection, and contract negotiation principles.

Offered: Online**BMIS 690 Integrated Capstone 3 Credit Hour(s)****Online Prerequisite:** (BMIS 510 and BMIS 520 and BMIS 530 and BMIS 603 and BMIS 681) or (BMIS 510 and BMIS 520 and BMIS 530 and BMIS 664 and BMIS 665)

This capstone course focuses on the design and management of an overall organizational system consisting of three interacting subsystems: (1) the enterprise itself - its structure, core processes, and relationships with external entities such as customers, suppliers, and outsourcers; (2) the IS function and its role in marshaling information technologies and information assets to support the strategy of the organization, and (3) the information technology architecture consisting of the organization's networks, hardware, data, and applications. The student will learn how to integrate and synthesize these three aspects of the enterprise, how IT must be aligned with the strategy of the organization, and how to make appropriate choices about architecture in relationship to overall organization goals.

Offered: Online