BCIS-BUSINESS COMPUTER SYSTEMS (BCIS)

BCIS 110. Introduction to Computerized Information Systems
3 Credits
Computerized information systems, their economic, and social implications. Introduction to microcomputer hardware, personal productivity software, and communications.

BCIS 322. Advanced Object-Oriented Programming
3 Credits
In-depth exposure to object-oriented programming techniques and preliminary enterprise-level programming.
Prerequisite: C- or better in BCIS 222.

BCIS 338. Business Information Systems I
3 Credits
Application, design and use of computerized information systems in business environment.
Prerequisite(s): BCIS 110G or C S 110G or consent of instructor.

BCIS 350. Information Systems Analysis and Design
3 Credits
An introduction to the analysis and design of secure information systems.
Prerequisite(s): Concurrently with BCIS 338 or consent of instructor.

BCIS 450. Systems Design, Development and Implementation
3 Credits
Design, development and implementation of business information processing systems. Includes maintenance, evaluation, and system management considerations.
Prerequisite: C- or better in BCIS 350.

BCIS 455. Design of On-Line Business Systems
3 Credits
Covers analysis, design, and development of on-line, real-time computerized business-information systems.
Prerequisite: C- or better in BCIS 350; and BCIS 322 or concurrent enrollment or consent of instructor.

BCIS 475. Database Management Systems
3 Credits
Design, development, and use of database management systems in the business environment.
Prerequisite(s): BCIS 338 or consent of instructor.

BCIS 480. E-Commerce Security
3 Credits
Introduction to securing network-based applications from internal and external threats. Fundamentals of network security, including TCP/IP, firewalls, intrusion detection, and vulnerability.
Prerequisite(s): BCIS 338 or consent of instructor.

BCIS 482. Management of Information Security
3 Credits
Provides management overview of information security and thorough examination of administration of information security. Surveys field of information security including planning, policy and programs, protection and people relative to information security.
Prerequisite(s): BCIS 338 or consent of instructor.

BCIS 485. Enterprise Resource Planning
3 Credits
This course covers concepts in enterprise resource planning (ERP). Topics include how ERP integrates business processes across functional areas--such as the procurement process and the sales order process--and how businesses use ERP information systems in day-to-day operations as well as for performance monitoring. SAP R/3 software will be used in several hands-on examples of ERP software as a real-world example of an ERP system.
Prerequisite(s): C- or better in BCIS 338 or BCIS 350 or ACCT 351.

BCIS 490. Selected Topics
1-3 Credits
Current topics in business systems analysis. Consent of Instructor required.

BCIS 495. Enterprise Information Portals
3 Credits
Enterprise information portal (EIP) is a framework for integrating information, people and processes across organizational boundaries using web-based technologies. In this class, you will explore the wide range of options (EIP's) (e.g. SAP Netweaver Portal) provided to integrate ERP solutions, third-party applications, legacy systems, databases, unstructured documents, internal and external Web content, and collaboration tools. Taught with BCIS 565.
Prerequisite(s): BCIS 485.

BCIS 498. Independent Study
1-3 Credits
Individual studies directed by consenting faculty with prior approval of the department head. May be repeated for a maximum of 3 credits.
Prerequisites: junior or above standing and consent of instructor.

BCIS 502. Business Information Systems
3 Credits
Analysis of information systems as integral parts of business organizations, including the responsibility of management to understand their capabilities and uses in handling the organization's information flow and providing appropriate information for decision making.
Prerequisite: graduate students only.

BCIS 550. Information Systems Analysis and Design
3 Credits
Information systems development methodologies and the system life cycle. Justifying and managing systems development projects. Taught with BCIS 350 with differentiated assignments for graduate students.
Prerequisite(s): Graduate Students Only.

BCIS 575. Database Management Systems
3 Credits
Design, development, and use of database management systems in the business environment. Taught with BCIS 475 with differentiated assignments for graduate students. Consent of Instructor required.
Prerequisite(s): BCIS 350.

BCIS 580. E-Commerce Security
3 Credits
Introduction to securing network-based applications from both internal and external threats. Fundamentals of network security including TCP/IP, firewalls, intrusion detection and vulnerability discussed. Not open to students who have taken BCIS 480. Taught with BCIS 480 with differentiated assignments for graduate students. No S/U or audit option.
Prerequisite(s): C- or better in BCIS 460 or consent of instructor.
BCIS 582. Management of Information Security
3 Credits
Provides management overview of information security and thorough examination of administration of information security. Surveys field of information security including planning, policy and programs, protection and people relative to information security. Taught with BCIS 482 with differentiated assignments for graduate students.
Prerequisite(s): BCIS 110 or equivalent.

BCIS 585. Enterprise Resource Planning & Business Processes
3 Credits
Enterprise-wide information systems and their use in enterprise resource planning (ERP). This course will examine the many cross-functional business processes. Other topics include ERP implementation issues, change management, and business process re-engineering. Hands-on exercises use SAP/3 Enterprise software. Taught with BCIS 485 with differentiated assignments for graduate students.
Prerequisite(s): C- or better in ACCT 351 or BCIS 502 or consent of instructor.

BCIS 590. Special Topics
1-3 Credits (1-3)
Seminars in selected current topics in business computer systems. May be repeated up to 3 credits.
Prerequisite(s): Vary according to topic being offered.

BCIS 595. Enterprise Information Portals
3 Credits
Enterprise information portal (EIP) is a framework for integrating information, people and processes across organizational boundaries using web-based technologies. In this class, you will explore the wide range of options (EIP’s)(e.g. SAP Netweaver Portal) provide to integrate ERP solutions, third-party applications, legacy systems, databases, unstructured documents, internal and external Web content, and collaboration tools. Taught with BCIS 495 with differentiated assignments for graduate students.
Prerequisite(s): BCIS 485.

BCIS 598. Independent Study
1-3 Credits
Individual studies directed by consenting faculty with prior approval of department head. A maximum of 3 credits may be earned.
Prerequisite: consent of instructor.