Management Information Systems (MISY)

Courses

**MISY 1013 Info & Communication in the Digital Age: 3 semester hours.**
The course explores living and communicating in a digital world. It includes selection and use of different types of computers, desktop and mobile, and their supported applications; an examination of the advantages and pitfalls of cloud computing and social networking; and projects designed to promote collaborative communication using multimedia and web technology with attention to formal and informal code of conduct.

**MISY 2013 Fundamentals of MIS with SAP: 3 semester hours.**
Overview of information systems including software and hardware issues, database management, enterprise systems, and organizational and managerial issues of fundamental business processes and functional areas, such as sales, production, accounting etc., and how they interact with an enterprise system; emphasis on hands-on learning using SAP.
Prerequisites: MISY 1013 (http://catalog.pvamu.edu/search/?P=MISY%201013).

**MISY 2123 Information Systems Applications: 3 semester hours.**
An extension of MISY 1013 (http://catalog.pvamu.edu/search/?P=MISY%201013). Includes case-based problems and management decision-making drills with alternative computer-based solutions structure. Extensive applications of contemporary microcomputer software packages to solve problems in functional areas of business. Recommended as an elective course for non-MISY majors.
Prerequisites: MISY 1013 (http://catalog.pvamu.edu/search/?P=MISY%201013).

**MISY 2153 Object-Oriented Programming Applications in Business: 3 semester hours.**
This course covers the fundamental concepts of object-oriented programming as they apply to real-world business problems. Emphasis is given on the development of object-oriented program logic and design in solving programming problems in business.
Prerequisites: MISY 2013 (http://catalog.pvamu.edu/search/?P=MISY%202013).

**MISY 3323 Networking: 3 semester hours.**
Specific topics include the introduction to core network concepts, network standards, physical layer propagation, Ethernet PC network, telephony and various LAN (Local Area Network) technologies, WAN (Wide Area Networks), internet working, wireless networking, network security, and network management.
Prerequisites: MISY 2013 (http://catalog.pvamu.edu/search/?P=MISY%202013).

**MISY 3393 Information Systems Internship I: 3 semester hours.**
Supervised full-time training in industry, government or other agencies for junior-level information systems majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms.
Prerequisites: MISY 2013 (http://catalog.pvamu.edu/search/?P=MISY%202013).

**MISY 3413 Business Database Applications: 3 semester hours.**
The course provides a solid foundation in database concepts and design as they apply in business. It covers principles of conceptual as well as relational designs and includes translation of business requirements into entity relationship diagrams, normalization of tables and advanced SQL to address specific business problems.
Prerequisites: MISY 2013 (http://catalog.pvamu.edu/search/?P=MISY%202013).

**MISY 3423 Enterprise Systems Analysis and Design: 3 semester hours.**
Methods, techniques, and tools involved in information systems analysis and design and project management in enterprises with exposure to traditional methodologies like systems development life cycle, and alternative methodologies like object-oriented and agile methodologies; hands-on experience of analysis and design on enterprise systems, such as ERP.
Prerequisites: MISY 2013 (http://catalog.pvamu.edu/search/?P=MISY%202013).

**MISY 3433 JAVA Applications in Business: 3 semester hours.**
The course covers the fundamental concepts of object-oriented programming (OOP) using Java language and emphasizes basic programming skills using hands-on practices. Intensive exploration of Java programming environment.
Prerequisites: MISY 2153 (http://catalog.pvamu.edu/search/?P=MISY%202153).

**MISY 4343 Cyber-Security for Electronic Commerce: 3 semester hours.**
The course introduces the emerging area of electronic commerce and the security challenges and threats in the electronic commerce environment, and provides an understanding of the next generation state-of-the-art EC security technologies.
Prerequisites: MISY 3323 (http://catalog.pvamu.edu/search/?P=MISY%203323).

**MISY 4353 Information Technology Project Management: 3 semester hours.**
Concepts, tools and techniques involved in Information Technology (IT) project management are presented. Focus will be on the five phases of project management: Initiating, Planning, Executing, Controlling, and Closing, and the nine project management knowledge areas: Integration Scope, Time, Cost, Quality, Human Resources, Quality, Risk.
Prerequisites: MGMT 3103 (http://catalog.pvamu.edu/search/?P=MGMT%203103) and MISY 3323 (http://catalog.pvamu.edu/search/?P=MISY%203323).
MISY 4393 Information Systems Internship II: 3 semester hours.
Supervised full-time training in industry, government or other agencies for senior level information systems majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms.

MISY 4413 E-Commerce: 3 semester hours.
The course provides technological as well as strategic and managerial aspects of electronic commerce systems. Topics covered include the use of hardware, software, architecture, payment mechanism, data security, and client and server side scripting in electronic commerce systems.
Prerequisites: MISY 3413.

MISY 4433 Adv Java Prog: 3 semester hours.
Covers advanced topics of Java programming and emphasizes the hands-on practice of Java applications. Students will be expected to explore Java programming environment intensively and develop adequate Java programming skills particularly in relation to graphical user interface, multimedia, and networking applications.
Prerequisites: MISY 3433.

MISY 4453 Special Topics in MIS: 3 semester hours.
The course provides a forum to bring in current issues in the MIS area such as information security, data mining, mobile/wireless technology and IT project management. Topics may vary from semester to semester and course can be repeated.
Prerequisites: MGMT 3103 and MISY 3323.

MISY 4523 Enterprise Strategic IT Management: 3 semester hours.
Strategic management concepts underlying the implementation of information Technology (IT) in an enterprise; pertinent IT issues such as analysis of strategic impact of IT, management of IT security and outsourcing; emphasis will be placed on hands-on learning using enterprise systems such as ERP. This course integrates issues covered in other MIS courses.
Prerequisites: MISY 3423 and MGMT 3103.

MISY 4993 Independent Study: 3 semester hours.
Reading, research, and/or field work on selected topics.

MISY 5103 Management Information Systems: 3 semester hours.
Foundational understanding of IS functions in relation to other business functions; current and emerging technologies; managerial and organizational understanding of IS functions within a networked or virtual organization; introduction to computer application software used by contemporary managers.

MISY 5323 Data Com & Network: 3 semester hours.
Integration of business management with data communications and networking core concepts such as fundamentals of data communication, various networking architectures and design, communication circuits and communication protocols.
Prerequisites: MISY 5103.

MISY 5413 App Database Management: 3 semester hours.
Concepts, tools, and technologies associated with the design, implementation and management of large databases for organizational effectiveness. Emphasis on the application aspect of databases.
Prerequisites: MISY 5103.

MISY 5423 Info Syst Analysis: 3 semester hours.
Focus on project planning, analysis, design, and implementation techniques, with an emphasis on the development of computer systems.
Prerequisites: MISY 5103.

MISY 5533 SP Topics in MIS: 3 semester hours.
The course provides a forum to bring in current issues in the MIS area such as project management, information security, data mining, etc. Topics may vary from semester to semester.
Prerequisites: MISY 5103.