### Program Matrix

### BACHELOR OF SCIENCE IN MANAGEMENT INFORMATION SYSTEMS

The Bachelor of Science in Management Information Systems (BS-MIS) program is designed to provide students with knowledge and skills to apply business principles and management practices with specialization in management information systems. Students pursuing this specialization will learn about designs and enterprise development and applications, management skills for technological organizations, and management decision making.

# Program Competencies and Learning Objectives

Upon successful completion of this program, students will be able to:

* Demonstrate effective oral and written communication skills
* Demonstrate basic skills in programming, databases, operating systems, and networking
* Determine appropriate approaches, tools and techniques for the applications in organizational settings
* Apply software management skills to test product quality
* Demonstrate the skills to design and develop applications using Relational Databases, .Net Development, and Web Programming and Development Tools
* Demonstrate effective skills in designs and enterprise development and applications using
  + Relational Databases
  + Active Server Pages and
  + Web Programming and Development Tools
* Show sensitivity to professional and ethical responsibilities and a respect for diversity
* Demonstrate management skills necessary for technological organizations
* Identify the information and systems needed for management decision making in an organizational setting

# Bs-MIS Curricular Requirements (120 CREDITS)

##### The Bachelor of Science in Management Information Systems degree requires completion of **120 semester credits** of coursework which includes 39 credits of General Education and Elective courses, 66 credits of Management Information Systems Core courses, and 15 credits of Management Information Systems Specialization courses.

##### **General Education: 39 Credits/13 Courses**

1. **English Communication: 6 Credits/2 Courses**

* GEN 101 English Composition I
* GEN 201 English Composition II

1. **Mathematics/Science/Computer Science: 15 Credits/5 Courses**

* ACC 421 Managerial Accounting
* GEN 104 Mathematics
* GEN 105 Algebra
* GEN 106 Calculus
* IST 221 Fundamentals of Computing

1. **Social Science: 6 Credits/2 Courses**

* ACE 100 Accelerate, Connect, Equip
* Social Sciences Elective (100/200)

1. **Humanities and Fine Arts: 6 Credits/2 Courses**

* GEN 102 United States History
* GEN 103 United States Government

1. **General Education or Elective: 6 Credits/2 Courses**

* Elective
* Elective

1. **Management Information Systems Core Courses: 66 Credits/22 Courses**
2. **Accounting**

* ACC 222 Financial Accounting

1. **Business**

* BUS 201 Business and Society
* BUS 215 Business Communication
* BUS 314 Business Law
* BUS 425 Business Ethics

1. **Economics**

* ECO 215 Survey of Economics
* ECO 220 Macroeconomics
* ECO 418 Microeconomics

1. **Finance**

* FIN 224 Principles of Financial Management

1. **Information Technology**

* IST 225 Computer System Architecture
* IST 228 Data Communications and Distributed Networks
* IST 234 Fundamentals of Database Management
* IST 235 Legal Issues in Information Technology
* IST 346 Computer Security Fundamentals
* IST 423 Information System Analysis Design and Implementation
* IST 430 Information Systems Management and Practice
* IST 444 Web Interface Design
* IST 447 Software Engineering

1. **Management**

* MGT 228 Introduction to the Process of Management
* MGT 251 Organizational Behavior
* MGT 440 Operations Management

1. **Marketing**

* MKT 226 Principles of Marketing

1. **Management Information Systems Specialization Courses: 15 Credits/5 Courses**

* IST 433 Advanced Database Management
* IST 435 Information Systems Project Management
* IST 439 Enterprise Resource Management
* IST 446 Advanced Internet Security and Threats
* MGT 450 Project Management for Managers

General Elective Courses - (Select 2 courses from the list below)

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| --- | --- | --- |
| * BUS 214 | Business Statistics | |
| * BUS 225 | Fundamentals of Business Ethics | |
| * ECO 418 | Microeconomics | |
| * HCS 430 | Information Technology for the Healthcare Professional | |
| * IST 227 | Information Technology in Business | |
| * IST 426 | Advanced Systems Administration | |
| * IST 450 | Directory Services and Infrastructure | |
| * IST 452 | Messaging Infrastructure Management | |
| * IST 458 | Routing and Switching Systems | |
| * MGT 445 | Strategic Management | |
| * MGT 448 | Human Resource Management | |
| * MGT 450 | Project Management for Managers | |
| * MGT 462 | Small Business Entrepreneurs | |
| * MKT 450 | Global Marketing | |
| * MKT 452 | Advertising | |
| * MKT 456 | Consumer Behavior | |
| * Elective 100/200/300/400 | |  |