

# *North Carolina A&T State University*

*School of Business and Economics / Department of Management*

## CURRICULUM GUIDE FOR THE MAJOR IN MANAGEMENT

### (MANAGEMENT INFORMATION SYSTEMS: MIS)

FALL 2011

NAME: \_\_\_\_\_

BANNER ID: \_\_\_\_\_

FRESHMAN YEAR FALL SEMESTER		FRESHMEN YEAR SPRING SEMESTER	
__ UNST 110 Critical Writing I	3	__ UNST 221 Thematic Writing & Speaking	3
__ UNST 120 The Contemporary World	3	__ UNST 140 The African American Experience	3
__ UNST 130 Analytical Reasoning	3	__ MATH 112 Calculus for Non-Math Majors	4
__ MATH 111 College Algebra & Trigonometry	4	__ SPCH 250 Speech Fundamentals	3
__ MGMT 220 Business Environment	3	__ MIS 241 Intro to Management Info Systems	3
__ UNST 100 University Experience	1	__ HPED Elective	1
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>17</b>

SOPHOMORE YEAR FALL SEMESTER		SOPHOMORE YEAR SPRING SEMESTER	
__ ECON 200 Principles of Economics (MICRO)	3	__ ECON 201 Principles of Economics (MACRO)	3
__ BUED 360 Business Communications	3	__ MIS 352 Object Oriented Programming	3
__ ECON 305 Elementary Statistics	3	__ UNST Cluster Theme Elective	3
__ ACCT 221 Principles of Accounting I	3	__ ECON 310 Advanced Statistics	3
__ PSYC 320 General Psychology	3	__ ACCT 222 Principles of Accounting II	3
__ HPED Elective	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

JUNIOR YEAR FALL SEMESTER		JUNIOR YEAR SPRING SEMESTER	
__ MGMT 481 Management Science	3	__ MGMT 482 Production Management	3
__ MIS 447 Object Oriented Analysis & Design	3	__ FIN 453 Business Finance	3
__ MGMT 422 Management Concepts	3	__ MGMT 361 Legal Environment of Business	3
__ ACCT 446 Managerial Accounting	3	__ MIS 448 Business Process & Systems Analysis	3
__ UNST Cluster Theme Elective	3	__ UNST Cluster or Non-Business Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

SENIOR YEAR FALL SEMESTER		SENIOR YEAR SPRING SEMESTER	
__ MGMT Elective	3	__ MIS 620 Strategic IT Service Management	3
__ MKTG 430 Marketing Concepts	3	__ MGMT 426 Organizational Behavior	3
__ MIS 449 Advanced Prog. For Business Syst.	3	__ MGMT 520 Strategic Management	3
__ MIS 500 Database App. Development	3	__ MGMT 462 Business Law	3
__ MIS Elective	3	__ Non-Business Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

**Major Code: 0245**

Total Credit Hours 125

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Students in the Department of Management may select a major in Management, Management with a concentration in Management Information Systems (MIS), or Management with a concentration in Entrepreneurship.

Students in the School of Business and Economics must earn a minimum grade of “C” in the following courses: **UNST 110, 221; MATH 111, 112 or MATH 123,131,132; MGMT 220, 520; ACCT 221, 222; ECON 305 and BUED 360.** Additionally, a minimum grade of a “C” must be earned in all **10 (30 hours) courses listed as Major Program Requirements and in each course taken as a Major Program Elective.**

MAJOR PROGRAM REQUIREMENTS	CREDIT HOURS
__ <b>MIS 352</b> Object Oriented Programming	3
__ <b>MIS 447</b> Object Oriented Analysis & Design	3
__ <b>MIS 448</b> Business Process and System Analysis	3
__ <b>MIS 449</b> Advanced Programming for Business Systems	3
__ <b>MIS 500</b> Database Application Development	3
__ <b>MIS 620</b> Strategic IT Service Management	3
__ <b>ACCT 446</b> Managerial Accounting	3
__ <b>MGMT 426</b> Organizational Behavior	3
__ <b>MGMT 482</b> Production Management	3
__ <b>MGMT 520</b> Strategic Management	3
<b>Total Hours</b>	<b>30</b>

**ENDNOTES**

**UNST Cluster Theme Elective:** Students are required to select one cluster theme and select four elective courses within that theme; however, the selection of the Community, Conflict and Society theme will allow MGMT 361 to be used as one of the four theme electives.

**Math Sequence:** Students can take one of three math sequences: MATH 111 & MATH 112, MATH 123 & MATH 131, or MATH 131 & MATH 132.

**HPED Elective:** Recommended electives include: HPED 105, 107, 113, 114, and 115.

**Management Electives:** Recommended electives include: MGMT 320, 483, 522, and 699.

**Non-Business Electives:** Recommended electives include: ENGL 331, HIST 307, SPCH 314, 410, 552; PHIL 315, UNST 220, or Foreign Languages.

**Non-Business Electives cont:**

ENGL 331 Writing for Science and Technology (STS)

HIST 307 The Historical Origins of Environmental Crises (PRS)

PHIL 315 Business Ethics (PRS)

SPCH 314 Intercultural Communications (PRS)

SPCH 410 Ethical Issues in Communications (PRS)

SPCH 552 Persuasive Communication (SPCH 250)

UNST 220 Social Consequences of Scientific and Technological Progress in the African American Experience (CCS)

**MIS Electives:** Recommended electives include: MIS 342 and 440. MIS graduates are needed in every discipline, in every industry, in every type of organization. Therefore, students majoring in MIS can also choose MIS electives that reflect their career interests and goals. Some courses count toward UNST cluster requirements. See electives courses listed below.

**Accounting Information Systems**

ACCT 444 Cost Accounting (ACCT 222, junior standing)

ACCT 491 Fundamentals of Governmental and Not-for-Profit Accounting (ACCT 221, ACCT 222, senior standing)

ACCT 545 Advanced Accounting (ACCT 441)

**Contracts and Procurement**

UNST 208 Foundations of Negotiation and Conflict Resolution (CCS)

MGMT 463 Commercial Law (MGMT 361)

TSCM 670 Purchasing and Supply Management

TSCM 672 Materials Management

**Customer Relationship Management**

MKTG 498 Customer Relationship Marketing and Management Internship

MKTG 535 Customer Relationship Marketing and Management Concepts (MKTG 432 or MKTG 434)

MKTG 536 Customer Relationship Marketing and Management Technologies (MKTG 535)

MKTG 539 Special Topics in Customer Relationship Marketing and Management (MKTG 535)

**Entrepreneurship**

MGMT 425 Entrepreneurship (junior standing)

MGMT 460 Special Topics in Entrepreneurship

MGMT 468 Entrepreneurial Financing (MGMT 425, MGMT 453)

MGMT 470 Marketing for Entrepreneurs (MGMT 425)

MGMT 472 Entrepreneurship Consulting (MGMT 425)

MGMT 475 New Venture Creation (MGMT 475)

MGMT 499 Internship in Entrepreneurship

**Financial Information Systems**

FIN 455 Investments (FIN 453)

FIN 550 Financial Analysis (FIN 453)

FIN 551 Financial Management (FIN 453)

FIN 553 International Business Finance (FIN 453)

ECON 415 Money and Banking (ECON 200, ECON 201, junior standing)

FIN 556 Financial Markets (FIN 453, ECON 415)

**Health Information Systems**

MIS 441 Health Information Management

NURS 415 Health Care in a Global Society (junior standing) (HLS)

UNST 214 Maps, Mapping and Environmental Health (HLS)

UNST 225 Epidemiology (HLS)

UNST 227 Global Health and Socio-Economic Development (HLS)

UNST 228 Contemporary Issues in Public Health (HLS)

Industrial Engineering

GEEN 100 Engineering Design and Ethics

GEEN 103 Computers in Engineering

GEEN 160 Computer Programming in C++ for Engineers

GEEN 161 Computer Programming in MatLab for Engineers

INEN 102 Graphical Visualization for Industrial Engineers

INEN 286 Engineering Teams and Leadership (GEEN 100, UNST 110)

Information Systems

UNST 210 Ethics in Information Technology (STS)

COMP 390 Social Implications of Computing (ENG 331) (STS)

POLI 410 Public Policy and Technology (STS, EES)

MIS 342 Business Decisions and Processes Using IT

MIS 440 Management of Information Resources

MIS 640 MIS Topics

Information Systems Auditing

ACCT 441 Intermediate Accounting I (ACCT 222, junior standing)

ACCT 442 Intermediate Accounting II (ACCT 441)

ACCT 561 Auditing Principles (ACCT 442)

Information Systems Security

ITT 315 Network Security Applications for Information Technology Professionals (sophomore standing)

COMP 620 Information, Privacy and Security

COMP 621 Web Security

COMP 627 Wireless Network Security

Information Technology

ITT 340 Introduction to Mainframe Operations (junior standing)

ITT 355 Network Servers (junior standing)

ITT 385 Economic and Social Impacts of Information Technology (junior standing)

TECH 218 Introduction to Technology

TECH 219 Technological Invention and Innovations

BUED 444 Data and Communications Networks

BUED 624 E-Commerce Design and Implementation

International Business

MTMG 320 Global Business Environment (MGMT 220)

MGMT 526 International Business Management (senior standing)

MKTG 537 International Marketing (MKTG 430)

FIN 553 International Business Finance (FIN 453)

Marketing and Sales

MKTG 432 Consumer Behavior (MKTG 430)

MKTG 433 Retailing (MKTG 430)

MKTG 434 Business-to-Business Marketing (MKTG 430)

MKTG 435 Selling and Sales Management (MKTG 430)

MKTG 438 Marketing Communications (MKTG 432)

MKTG 527 International Marketing (MKTG 430)

MKTG 538 Marketing Research (ECON 310, MKTG 430)

Mathematics

MATH 132 Calculus II (MATH 131)

MATH 223 Discrete Mathematics II (MATH 123 or MATH 311)

MATH 231 Calculus III (MATH 132)  
MATH 240 Introduction to the Programming of Digital Computers  
MATH 311 Mathematical Logic and Proof Techniques (MATH 112 or MATH 131)  
MATH 431 Introduction to Differential Equations (MATH 132)  
MATH 450 Linear Algebra and Matrix Theory (MATH 132)

Real Estate, Risk and Insurance

FIN 464 Risk and Insurance (junior standing)  
FIN 465 Real Estate (junior standing)  
FIN 466 Real Estate Finance (FIN 453, FIN 465, or instructor consent)

Supply Chain Management

TSCM 340 Introduction to Supply Chain Management  
TSCM 431 Supply Chain Analysis (ECON 310, MIS 341)  
TSCM 580 International Logistics and Supply Chain Management (TSCM 340)  
TSCM 670 Materials Management  
TSCM 672 Purchasing and Supply Management

Transportation

TSCM 360 Introduction to Transportation  
TSCM 425 Economics of Transportation (ECON 200, ECON 201 and junior standing)  
TSCM 450 Carrier Management (TSCM 425 or instructor consent)  
TSCM 470 Urban Transportation Concepts  
TSCM 600 Special Topics in Transportation and Logistics  
TSCM 650 Transportation Law (MGMT 361 or instructor consent)  
TSCM 660 National Transportation Policy  
TSCM 665 Transportation Regulation and National Policy (MGMT 361)

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- In order to meet graduation requirements, a student majoring in Management Information Systems must maintain a 2.0 overall GPA and a 2.0 in the major program requirements. A grade of "Passing" must be earned in MIS 201, 202, 301, and 302.
- After completing 88 semester hours of course work, a student must request a Degree Audit from the Department of Management and make an appointment with the Chairperson for review.