

# MANAGEMENT INFORMATION SYSTEMS CONCENTRATION - BUSINESS ADMINISTRATION (B.S.)

Information systems play a critical role in all areas of business. The **Management Information Systems concentration in the Business Administration major** focuses on using methods and tools, such as Python, SQL, cloud computing, database systems, and systems analysis and design, to solve business problems and make businesses more efficient. Students will apply what they have learned in an internship.

In the Management Information Systems profession, individuals analyze business situations and leverage technology to create innovative business solutions and opportunities, transform business operations, improve business performance, and manage business processes and resources. They help businesses implement new information technologies on time and on budget.

## Admission Criteria:

# Overall GPA – 3.0

120 credits of coursework is required for the baccalaureate degree with a minimum 2.0 overall GPA, and a minimum 2.0 major GPA.

## Program Requirements Overview

Code	Title	Credits
	General Education Requirements	30
	World Languages and Cultures Requirements	3-9
	Major Requirements	42
	Concentration Requirements	21
	Free Electives	24-18
	<b>Total Credits</b>	<b>120</b>

## Major Requirements

Code	Title	Credits
<b>Business Administration Required Core</b>		
<i>Business Fundamentals</i>		
ACCT 204	Fundamentals of Accounting (Students in the Finance concentration take ACCT 201)	3
or ACCT 201	Fundamentals of Financial Accounting	
BSLW 235	Legal, Ethical, and Global Environment of Business	3
BUGN 280	Strategic Business Communications	3
INFO 290	Technology in Business	3
MGMT 201	Business Ethics and Social Impact	3
MGMT 439	Applied Business Strategy	3
<i>Integrated Core</i>		
FINC 300	Integrated Core: Finance	3
INFO 300	Integrated Core: Operations Management	3
MGMT 300	Integrated Core: Management	3
MKTG 300	Integrated Core: Marketing	3
<i>Collateral Courses</i>		
ECON 101	Applied Macroeconomics	3

ECON 102	Applied Microeconomics	3
INFO 173	Spreadsheet Modeling for Business Decisions	3
INFO 240	Statistical Methods in Business	3
<b>Business Administration Career Learning</b>		
BUGN 310	Campus to Career Transition I	0
BUGN 320	Campus To Career Transition II	0
<b>Total Credits</b>		<b>42</b>

## Management Information Systems Concentration Requirements

Code	Title	Credits
<b>Required Concentration Courses</b>		
INFO 210	Database Systems	3
INFO 342	Information Technology Infrastructure	3
INFO 257	Programming for Business	3
INFO 360	MIS Co-Op	3
or INFO 361	Information Technology Projects	
INFO 496	Advanced Systems Analysis and Design	3
<b>Concentration Electives</b>		
Complete 6 credits from the following:		
INFO 265	Foundations of Business Analytics and Artificial Intelligence	6
INFO 266	Data Analysis and Visualization	
INFO 351	Fundamentals of Project Management	
INFO 414	Information Security System Management	
INFO 416	Business Process Analysis and Enterprise Systems	
INFO 470	Electronic Commerce: Creating Business Value Using Information Technology	
INFO 491	Independent Study in Information Systems	
INFO 492	Special Topics in Information Systems	
<b>Total Credits</b>		<b>21</b>

## General Education Requirements

Click here for a list of courses that fulfill General Education categories. (<http://catalog.montclair.edu/programs/general-education-requirements-ba-bs/>)

Code	Title	Credits
<b>A. New Student Seminar</b>		
Complete a 1 credit New Student Seminar course.		1
<b>C. Communication</b>		
1. Writing		3
2. Literature		3
3. Communication		3
<b>D. Fine and Performing Arts</b>		
Complete a 3 credit Fine and Performing Arts course.		3
<b>F. Humanities</b>		
1. Great Works and Their Influences		3
2. Philosophical and Religious Perspectives		3
<b>G. Computer Science</b>		
INFO 173	Spreadsheet Modeling for Business Decisions (Fulfilled in the major.)	

H. Mathematics	
INFO 240	Statistical Methods in Business (Fulfilled in the major.)
I. Natural Science Laboratory	
Complete a 4 credit Natural Science Laboratory course.	
4	
J. Physical Education	
Complete a 1 credit Physical Education course.	
1	
K. Social Science	
1. American and European History	
3	
2. Global Cultural Perspectives	
3	
3. Social Science Perspectives	
ECON 101	Applied Macroeconomics (Fulfilled in the major.)
L. Interdisciplinary Studies	
ECON 102	Applied Microeconomics (Fulfilled in the major.)
<b>Total Credits</b>	
<b>30</b>	

## World Languages and Cultures Requirements

Click here for a list of courses that fulfill World Languages and Cultures categories. (<http://catalog.montclair.edu/programs/world-languages-and-cultures-requirements/>)

Code	Title	Credits
World Languages		
Based on language placement exam, complete one or two sequential courses in the same language. <b>Requirement is automatically fulfilled by language major courses.</b>		3-6
World Cultures		
Requirement may be fulfilled by course selected in General Education - Social Science: Global Cultural Perspectives. Requirement may also be fulfilled by major coursework. See list of courses.		0-3
<b>Total Credits</b>		<b>3-9</b>

## Recommended Roadmap to Degree Completion

This four-year plan is provided as an outline for students to follow in order to complete their degree requirements within four years. This plan is a recommendation and students should only use it in consultation with their academic advisor.

First Year			
Fall	Credits	Spring	Credits
GENERAL EDUCATION: (A) New Student Seminar	1	GENERAL EDUCATION: (C2) Literature	3
GENERAL EDUCATION: (C1) Writing	3	ECON 101 (Fulfills General Education K3 category)	3
GENERAL EDUCATION: (C3) Communication	3	INFO 240	3
ECON 102 (Fulfills General Education L category.)	3	INFO 290	3

INFO 173 (Fulfills General Education G category.)	3	MGMT 201	3
MATH 100	3		
<b>16</b>		<b>15</b>	

Second Year			
Fall	Credits	Spring	Credits
ACCT 204		3 BUGN 310	0
BUGN 280		3 FINC 300	3
BSLW 235		3 INFO 300	3
INFO 210		3 MGMT 300	3
INFO 342		3 MKTG 300	3
		Concentration Elective	3
<b>15</b>		<b>15</b>	

Third Year			
Fall	Credits	Spring	Credits
GENERAL EDUCATION (I) Natural Science Laboratory		4 GENERAL EDUCATION (D) Fine and Performing Arts	3
World Language 1		3 GENERAL EDUCATION (K1) Social Science – American and European History	3
INFO 257		3 World Language 2	3
INFO 360 or 361		3 Concentration Elective	3
Free Elective		3 Free Elective	3
<b>16</b>		<b>15</b>	

Fourth Year			
Fall	Credits	Spring	Credits
GENERAL EDUCATION (F1) Humanities – Great Works and Their Influences		3 GENERAL EDUCATION (F2) Humanities – Philosophical and Religious Perspectives	3
GENERAL EDUCATION (K2) Social Science – Global Cultural Perspectives		3 World Cultures	3
GENERAL EDUCATION (J) Physical Education		1 INFO 496	3
BUGN 320		0 Free Elective	3
MGMT 439		3 Free Elective	3
Free Elective		3	
<b>13</b>		<b>15</b>	

**Total Credits 120**