

# Department of Mathematics and Computer & Information Science

## Management Information Systems

### Bachelor of Science (B.S.) Degree in Management Information Systems

#### A. Major Requirements 17 courses (66 credits)

##### 1. All of the following CS courses 9 courses (36 credits)

- CS2510 Computer Programming I
- CS2511 Computer Programming II
- CS3611 Advanced Visual C#
- CS4100 Technical Communications
- CS4501 Software Engineering
- CS4550 Database Management Systems
- CS4720 Internet and Web Technologies
- CS5710 Computer Networks
- CS5910 System Design & Implementation

##### 3. Business Courses: 14 credits (4 courses)

- BU3502 Principles of Accounting I
- BU3511 Principles of Accounting II
- BU3800 Marketing: Principles and Concepts
- BU4110 Organizational Behavior & Management

#### B. Department Requirements

- A grade of C or higher is needed in all required mathematics courses
- A minimum of 28 credits (7 courses) of the required major courses at or above the 3000 level must be completed at Old Westbury.

#### C. Liberal Education Requirements

Refer to the Liberal Education Curriculum Guidelines

#### D. General Electives In consultation with academic advisor, for a total of 120 credits

#### E. College Wide Requirements

- 120 credits overall (40 credits at Old Westbury, may transfer a maximum of 80 credits)
- 45 Upper Division credits (3000, 4000, or 5000 level courses)
- 60 Liberal Arts credits
- Cumulative Grade Point Average of 2.0

#### 4. Economics & Analytics: 8 credits (2 courses)

##### 4a. Take two of the following

- PE2420 Principles of Microeconomics
- PE2430 Principles of Macroeconomics
- MA3250 Business Analytics

#### 5. Mathematics Courses: 8 Credits (2 courses)

##### 5a One of the following:

- MA2300 Calculus for Business & Economics
- MA2310 Calculus & Analytic Geometry I
- MA3030 Discrete Mathematics

##### 5b. One of the following:

- MA2000 Applied Statistics
- MA3210 Intro. to Probability and Statistics

## Prerequisite Guide

COURSES	PREREQUISITE Grade of C or better
CS2510 Computer Programming I	MA1020
CS2511 Computer Programming II	CS2510
CS3611 Advanced Visual C#	CS2510
CS4100 Technical Communications	Junior Standing in CIS/MIS, ECII
CS4501 Software Engineering	CS2511, CS3810 or CS3611, EC II
CS4550 Database Management Systems	CS2511, CS3810 or CS3611, EC I
CS4720 Internet and Web Technologies	CS4550
CS5710 Computer Networks	CS4501 or CS4550, MA2000 or MA3210
CS5910 Systems Design & Implementation	CS4501, CS4550, CS4720, ECII
<b>Mathematics</b>	
MA2000 Applied Statistics	MA1010 or Placement Exam
MA2300 Calculus for Business & Economics	MA2080 or MA2090
MA2310 Calculus and Analytic Geometry I	MA2090
MA3030 Discrete Mathematics	MA2090 or MA2080
MA3210 Introduction to Probability & Statistics	MA2310 or MA2300
MA 3250 Business Analytics	(MA2000 or MA3210) and (MA2080 or MA 2090)
<b>Business, Economics and Analytics Courses</b>	
PE2420 Principles of Microeconomics	EC II
PE2430 Principles of Macroeconomics	EC II
BU3502 Principles of Accounting I	MA1020
BU3511 Principles of Accounting II	BU3502
BU3800 Marketing: Principles and Concepts	EMS - English Mastery Satisfied
BU4110 Organizational Behavior & Management	EMS - English Mastery Satisfied