



Management Information Systems

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

A. MIS Major Course Requirements: 66 credits (17 courses)

1. Computer Science Courses: 36 credits (9 courses)

| | | |
|--------|--|---|
| CS2510 | Computer Programming I | 4 |
| CS2511 | Computer Programming II | 4 |
| CS3611 | Advanced Visual Basic and Database Application Programming | 4 |
| CS4100 | Technical Communications | 4 |
| CS4501 | Software Engineering | 4 |
| CS4550 | Database Management Systems | 4 |
| CS4720 | Internet and Web Technologies | 4 |
| CS5551 | MIS Topics (CS5810 or CS5710 serves as a substitute) | 4 |
| CS5910 | System Design & Implementation | 4 |

3. Mathematics Courses: 8 credits (2 courses)

3a. One of the following:

| | | |
|--------|-----------------------------------|---|
| MA2300 | Calculus for Business & Economics | 4 |
| MA2310 | Calculus & Analytic Geometry I | 4 |
| MA3030 | Discrete Mathematics | 4 |

3b. One of the following:

| | | |
|--------|--------------------------------------|---|
| MA2000 | Applied Statistics | 4 |
| MA3210 | Intro. to Probability and Statistics | 4 |

2. Business & Economics Courses: 22 credits (6 courses)

| | | |
|--------|--------------------------------------|---|
| PE2420 | Principles of Microeconomics | 4 |
| PE2430 | Principles of Macroeconomics | 4 |
| BU3502 | Principles of Accounting I | 3 |
| BU3511 | Principles of Accounting II | 3 |
| BU3800 | Marketing: Principles and Concepts | 4 |
| BU4110 | Organizational Behavior & Management | 4 |

B. Department Requirements

- A grade of **C** or higher is needed in all required computer science, business, economics, and 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 Elective Courses

In consultation with academic advisor, for a total of 120 credits

E. College Wide Requirement

- **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**

Prerequisites Guide

| COURSE | | PREREQUISITE Grade of C or higher |
|--------|--|---|
| CS2510 | Computer Programming I | MA1020 |
| CS2511 | Computer Programming II | CS2510 |
| CS3611 | Advanced Visual Basic and Database Application Programming | CS2510 |
| CS4100 | Technical Communications | Junior Standing in CIS/MIS, ECII |
| CS4501 | Software Engineering | CS2511, CS3611 or CS3810, EC II |
| CS4550 | Database Management Systems | CS2511, CS3611 or CS3810, EC I |
| CS4720 | Internet and Web Technologies | CS4550 |
| CS5551 | MIS Topics | CS4550, EC II |
| CS5710 | Computer Networks | CS4501 or CS4550, MA2000 or MA3210 |
| CS5810 | Data Mining | CS4550, MA2000 or MA3210, ECII |
| CS5910 | Systems Design & Implementation | CS4501, CS4550, CS4720, ECII |

| | | |
|--------|--------------------------------------|---------------------------------|
| 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 |

| | | |
|--------|--|--------------------------|
| 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 |