

# State University of New York

## Academic Program proposal

### PROGRAM SUMMARY

Campus SUNY/College at Old Westbury Date April 24, 1992

Proposed Program Title Management Information Systems

Proposed Degree Bachelor of Science

HEGIS Classification Number 0702

Department(s) or Academic Unit(s) that will offer Program Computer Science

Proposed Beginning Date September 1992

Give a brief summary (250 words or less) of proposal describing purpose, academic content, structure, credits, etc. Attach additional sheet if necessary.

The Management Information Systems Degree is intended to satisfy student demand for programs with greater emphasis on computer applications. The program focuses on the use of computers in a variety of business environments, especially computer-based information systems for management decision making. Completion of this degree requirements include 4n credits in General Education, a core of 44 credits in Computer Science, 16 in Math and 20 credits in Business and Economics.

ENROLLMENT	Year 1	Year 2	Year 3	Year 4	Year 5
Projected number of students in program/major					
Total headcount	<u>50</u>	<u>75</u>	<u>75</u>	<u>75</u>	<u>75</u>
Full-time	<u>30</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
Part-time	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>
Total Annual Average FTE	<u>40</u>	<u>60</u>	<u>60</u>	<u>60</u>	<u>60</u>
Anticipated Student/Faculty Ratio in Program Courses	<u>14:1</u>	<u>15:1</u>	<u>15:1</u>	<u>15:1</u>	<u>15:1</u>

## BACKGROUND

The Computer Science Department was established in 1980 and authorized to offer a B.S. degree in Computer and Information Systems. Almost from the beginning, the CS Department had a distinct orientation: computer applications were treated as seriously as computer theory. This is still true and this is one of the main reasons why the Department frequently updates the curriculum to reflect the latest practices in the computer industry.

This "computer applications" orientation of the Department is reflected in its core course requirements of Software Engineering, Database Management Systems, and Systems Design and Implementation. These courses stress fundamental aspects of analyzing, designing and implementing database-oriented information systems. So, even though the departmental title was changed to "Computer Science," there was always a concentration in information systems available to students who wanted a degree tailored to the needs of industry and business. This concentration was available even when the Business and Management Program offered for a time a similar concentration (recently discontinued).

Students taking this concentration are typically interested in becoming programmers, systems analysts, data processing managers, and eventually directors of MIS. Prospective employers include banks, brokerage firms, insurance companies, utilities, manufacturers, retailers and many others.

## **BACHELOR OF SCIENCE DEGREE IN MANAGEMENT INFORMATION SYSTEMS**

This degree is offered by the Computer Information Science Department with greater emphasis on computer-based information systems applied in a variety of business environments, especially management decision making.

### **REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN MANAGEMENT INFORMATION SYSTEMS**

To earn a Bachelor of Science degree in Management Information Systems, the student must complete 120 credits, including 40 credits in General Education.

<b>A. Computer Science Requirements (44 credits)</b>		<b>Credits</b>
CS2510	Computer Programming I	4
CS2511	Computer Programming II	4
CS3551	Cobol & File Processing	4
CS3620	Computer Architecture	4
CS3810	Data Structures	4
CS4100	Technical Communications	4
CS4501	Software Engineering	4
CS5550	Database Management Systems	4
CS4570	Management Information Systems	4
CS4605	Topics in MIS	4
CS5910	Systems Design & Implementation	4
<b>B. Business Requirements (20 credits)</b>		
BU2420	Principles of Microeconomics	4
BU2430	Principles of Macroeconomics	4
BU3100	Fundamentals of Management	4
BU3502	Principles of Accounting I	4
BU3800	Marketing Principles & Concepts	4
BU4101	Organizational Behavior	4
<b>C. Mathematics Requirements (16 credits)</b>		
MA2090	Pre-calculus	4
MA2310	Calculus & Analytical Geometry I	4
MA3030	Discrete Mathematics	4
MA3210	Probability and Statistics	4

#### Rationale

The proposed B.S. degree in Management Information Systems raises the MIS concentration previously offered in the Computer Science Department to the status of a major. The degree adds another option for students of computer science who want an emphasis on an important area of computing applications.

#### Resolution

Be it resolved that the Faculty Senate approve the B.S. degree in Management Information Systems.