

**PROCESS C**

**CURRICULUM PROPOSAL SCC #04-05- 106**

**NEW Programs - MAJOR Program Revisions - PROGRAM Name Changes**

**LIBRARY RESOURCE FORM REQUIRED**

**Deadlines:** October 8, 2004 to be implemented Fall 2005 ~ February 11, 2005 to be implemented Spring 2006

**PROPOSAL TITLE:** Change in Required Courses and Restricted Electives for MIS Specialization within Business Major

**Sponsor(s):** Daniel J. McFarland E-Mail: mcfarland@rowan.edu Ext: 5426  
E-Mail: \_\_\_\_\_ Ext: \_\_\_\_\_

**DEPARTMENT:** Management and MIS

**COLLEGE:** Business

**If Liberal Arts & Sciences CHECK :** History/Humanities Math/Sciences Social/Behavioral Sciences  
XX UNDERGRADUATE GRADUATE

THE ATTACHED **NEW PROGRAM – MAJOR PROGRAM REVISION – PROGRAM NAME CHANGE** IS BEST DESCRIBED BY THE ITEM(S) CHECKED.

- New degree program **XX** Major changes-degree requirements/major/minor or certificate program
- New Major        Changes to College name, School, Department or Degree
- New Minor        Quasi curricular change
- New concentration, specialization, or track
- New Certificate of Graduate Study Program (COGS & COGA)

**THE FOLLOWING SIGNATURES REPRESENT APPROVAL**

**Department Chair:** [Signature] Date: 10/5/04  
**Department Curriculum Chair:** [Signature] Date: 10-5-04  
**Academic Dean:** [Signature] Date: \_\_\_\_\_

**COLLEGE CURRICULUM COMMITTEE**

**CLOSED HEARING** Date: 11/29/2004 Approved  Not Approved   
**COLLEGE CURRICULUM CHAIR:** [Signature]

**UNIVERSITY CURRICULUM COMMITTEE**

**OPEN HEARING** Date: \_\_\_\_\_ Approved \_\_\_\_\_ Not Approved \_\_\_\_\_  
**Senate Curriculum Chair Signature:** \_\_\_\_\_ Date: Senate Announcement/Vote: \_\_\_\_\_  
**Comments:** \_\_\_\_\_

**EXECUTIVE VICE PRESIDENT/PROVOST** Signature: [Signature] Date: 7/5/05

\* USING NEW ed manual \*  Approved  Not Approved

**REGISTRAR**

Date: 7/19/05 Official Copy & Approval Sheet Filed  
Date: \_\_\_\_\_ Course Description Received & Approved ~ Hegis Taxonomy & Course # \_\_\_\_\_  
Course Description Received & Approved ~ Hegis Taxonomy & Course #: \_\_\_\_\_  
Registrar Signature: [Signature]

**NOTIFICATION FORWARD**

- SCC Chair  Academic Dean  Department Chair  Registrar  IR  CAP  VP Student Affairs
- VP Student Affairs  Others

*Trans. 8/16/05*

Rowan University  
CURRICULUM PROPOSAL  
LIBRARY RESOURCE FORM

The purpose of this form is to provide a channel of communication between the library and faculty changing and designing new courses/programs. The information will be used to assess the resources available in the library, and to identify resources the library should acquire to support the course/program. The information will also provide rationale for institutional support for library acquisitions.

This form should be completed in a coordinated effort between the course sponsor(s) and the academic department liaison librarian. THIS FORM MUST BE COMPLETED FOR ALL CURRICULUM PROPOSALS.

- The sponsor(s) complete parts A & B  
If assistance is required to complete parts A & B please notify the liaison librarian.
- Forward this form to the librarian who will complete parts C, D & E

**This form must be completed and attached to the original curriculum proposal before being approved by the Senate Curriculum Committee**

A. College Business Department Management & MIS  
 Proposed by Daniel McFarland Date 11/30/04  
 Course Title \_\_\_\_\_  
 Anticipated Date for Course/Program Offering: \_\_\_\_\_

- B. List specific resources that should be acquired to support this course.
- C. Describe the resources available in the library to support this course/program, including reference, monographic, electronic databases, audio-visual materials, etc. A summary statement is sufficient.

*N/A*

D. List key periodicals available in the library to support this course/program.

E. Librarian comments and recommendations: *This program revision requires no review of library resources.*

Name LIBRARIAN LIAISON Connie Rosenberger Librarian Signature Connie Rosenberger



## DETAILS

**Title:** Change in Required Courses and Restricted Electives for MIS Specialization within Business Administration Major

**Sponsor:** Daniel J. McFarland

**Scope and size of the Program:** The MIS specialization has averaged approximately 60 graduating seniors each year for the past 5 years.

**Need for the Program:** MIS continues to be a popular business specialization. We do not anticipate this changing. If we are successful in implementing this program and in earning the ABET accreditation in IS we will be one of the first institutions to do so within this region, which could give us a competitive advantage in this area.

**Requirements for admission and graduation:** We are not altering the existing admission requirements. We are only altering the graduation requirements in that the students must successfully complete the newly developed courses. The specific course changes are shown below:

- Remove three specialization course requirements for the MIS specialization:
  - Integrated Business Software Tools (0702-300)
  - Seminar in MIS (0702-420)
  - Computer Science & Programming (0704.103)
  
- Add six specialization course requirements for the MIS specialization (4 to be taught by MIS Faculty):
  - Business Systems (0702-3xx)
  - MIS Capstone Experience (0702-4xx)
  - Business Web Applications (0702-4xx)
  - Project Management (0702-4xx)
  - Enterprise Computing I (070x-xxx) (General Education Course developed and taught by the Computer Science Department)
  - Enterprise Computing II (070x-xxx) (Course developed and taught by the Computer Science Department)
  
- Add the following restricted elective courses for the MIS specialization:
  - Seminar in MIS (0702.420)
  - Integrated Business Software Tools (0702.300)
  - New Venture Development (0506.327)
  - Technology Entrepreneurship (0506.450)
  
- Remove the following restricted elective courses for the MIS specialization:
  - Accounting Information Systems (0503.320)
  - Geographic Information Systems II (2206.309)

**Suggested Time and Scale:** We plan to implement this proposed curriculum Fall 2005. These changes will be effective for incoming students. However, we will advise and accommodate every existing student to ensure they graduate within their initial time frame, while obtaining the most appropriate bank of courses to complete their degree.

**Resource Requirements:** The existing facilities will accommodate this proposed curriculum.

**Recommended Library Resources:** The existing library holdings and electronic databases are sufficient to support this proposed curriculum. We have obtained individual library consultation letters for each newly proposed course.

**Staffing Resources:** The current faculty plus the additional faculty member (already approved) are capable of implementing this proposed curriculum. If necessary, as a result of budget limitations putting the new position on-hold for a second year, the current faculty plus adjuncts can deliver this curriculum starting fall 2005.

## Rationale

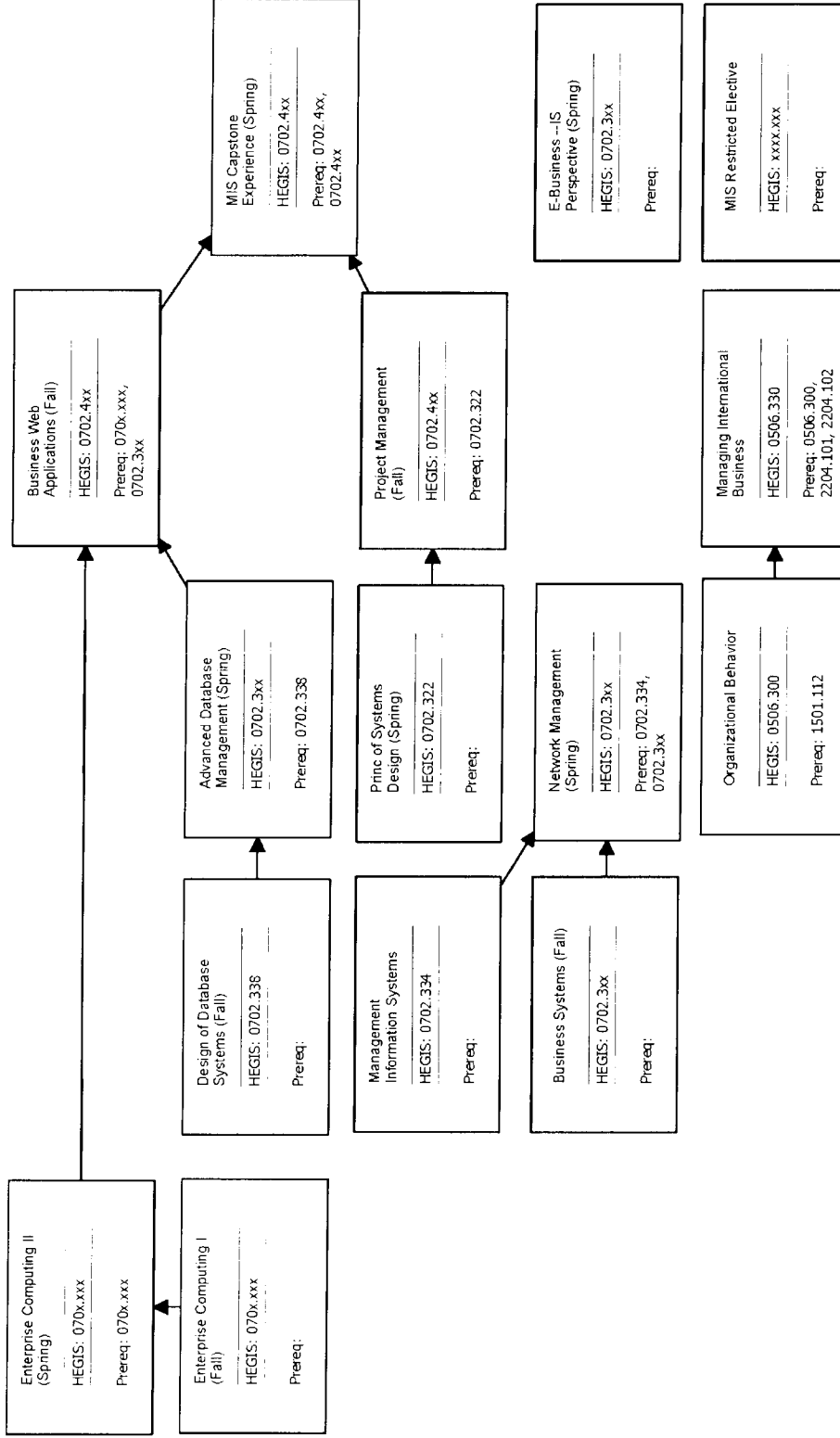
The Management and MIS department is committed to improving the educational experience of students through the process of continuous improvement and outside verification of progress. As such, the MIS faculty are preparing to apply for the newly established ABET accreditation in IS. To earn this accreditation, the MIS curriculum must satisfy the learning objectives of an accepted, standardized curriculum model. There is only one standardized MIS curriculum model namely, the IS 2002 Model. This curricular change proposal is designed to more closely resemble the IS 2002 Curriculum Model.

## Essence of the Program

- A. **Program Mission Statement:** The mission of the MIS program is to prepare students for careers in a rapidly changing technological world by preparing them to develop business solutions through the use of information and information technology.
- B. **Existing Program Goals & Objectives:** The M.I.S. specialization aims to prepare students who:
- Are competent in the analysis and design of information systems and understand what is involved in systems implementation;
  - Are experienced with at least one third generation programming language;
  - Exhibit good business communication and interpersonal skills;
  - Are proficient in the use of a database management system and have experience creating database solutions;
  - Understand computer networking and have experience setting up and administering a LAN;
  - Understand e-commerce and have experience in web site development; and
  - Understand project management and have experience with project management software.

C. Structure of the Program:

Proposed MIS Curriculum Fall 2005



**D. Identification of courses with brief description and credit hours for each:**

PROPOSED NEW CURRICULUM	COURSE DESCRIPTION
Enterprise Computing I (070x-xxx), 4 credits ?	A course proposal for this general education course is simultaneously submitted by the Computer Science Department.
Enterprise Computing II (070x-xxx), 3 credits ✓	A course proposal for this course is simultaneously submitted by the Computer Science Department.
Business Web Applications (0702-4xx), 3 credits ?	Students will learn how to create web pages with various types of functionality as required in the business environment. Students will create web pages to display a business' catalog, allow customers to select and place items in a shopping cart, etc. Human factors will be considered for all design aspects.
Business Systems (0702-3xx), 3 credits ?	This course is designed to introduce business students to the terminology and administrative issues that arise when simultaneously managing multiple systems in a business environment. Students must demonstrate effective communications and a clear understanding of the organization implications when working with each of the business disciplines when supporting and administering systems.
MIS Capstone Experience (0702-4xx), 3 credits ?	This course integrates the material covered in the MIS specialization courses, so that students can understand how each of the elements work together. It also affords an opportunity for students to complete a complex, realistic project where they must utilize and hone skills they learned in prerequisite courses (i.e., project management concepts, systems analysis and design methodologies, data modeling and database design, programming skills, interpersonal skills, writing skills, and problem solving skills.) This course will also reinforce ethical awareness and good decision making in IS situations, and discuss the specific professional and ethical responsibilities of the IS practitioner.
Project Management (0702-4xx), 3 credits ?	In this course, students will learn the Project Management Body of Knowledge (PMBOK) as put forward by the professional association, the Project Management Institute (PMI). Students will not only study the various phases and documents of project management, they will also have experience creating each of the documents for a given project.
Network Management (0702-3xx), 3 credits ?	This course will make students familiar with the areas of information systems planning and network management. Students will apply the theoretical aspects of these topics by analyzing case studies and completing other projects. Students will learn about network administration using the Novell LAN system.
E-Business: An IS Perspective (0702-3xx), 3 credits ?	The course explores the nature of electronic business including such topics as current business models, various ethical implications, international issues in e-business, and e-commerce payment mechanisms. Students will also gain practice implementing interactive web pages that process form data, such as provide the foundation for electronic-business.
Principles of Systems Design (0702-322), 3 credits ✓	This course explores the methodology and techniques in analysis and design of computer information systems. The systems analyst, the architect of information systems, is a liaison between user and programmer. The roles and responsibilities of the systems analyst are emphasized at all stages of the systems development life cycle.
Design of Database Systems (0702-338), 3 credits ✓	This course explores the fundamentals of designing a database for a business organization. Item emphasizes the relational model; however, the course also explores the hierarchical and network models. Additionally, the course covers such topics as recovery, integrity, security, concurrency, distributed databases, data dictionaries and the role of the database administrator.
Advanced Database Management (0703-3xx), 3 credits ?	This course provides students with an understanding of client-server databases, and the skills to develop one using a reputed database development. Students learn to use Structured Query Language (SQL) extensively to create an integrated database application. Knowledge of a programming language and a basic understanding of relational database concepts are expected.
Managing International Business (0506-330), 3 credits ✓	Students will learn about the evolution and current environment for international trade and investment and understand the challenges and issues facing business organizations with international operations. They will apply these insights to the analysis of actual business decision-making situations by means of case studies and research projects.

**E. Sequence of course work with description of major and general education requirements. Include an example of courses that would typically be taken term by term, pointing out any course prerequisites:**

**FRESHMAN YEAR (31 s.h.)**

Fall Semester (1 <sup>st</sup> Semester) 15 s.h.	Spring Semester (2 <sup>nd</sup> Semester) 16 s.h.
College Composition I (1501.111) 3 s.h. Calculus T/A (1703.125) or Calculus I 3 s.h. History, Humanities, & Language 3 s.h. Social & Behavioral Science 3 s.h. Introduction to Economics – Macroeconomics Perspective (2204.101) 3 s.h.	College Composition II (1501.112) 3 s.h. Statistics I (1703.260) 3 s.h. History, Humanities, & Language Lab Sciences 4 s.h. Introduction to Economics – Microeconomics Perspective (2204.102) 3 s.h.

**SOPHOMORE YEAR (31 s.h.)**

Fall Semester (3 <sup>rd</sup> Semester) 16 s.h.	Spring Semester (4 <sup>th</sup> Semester) 15 s.h.
Enterprise Computing I (070x.xxx) 4 s.h. Public Speaking (1506.202) 3 s.h. Principles of Accounting I (0503.210) 3 s.h. History, Humanities, & Language 3 s.h. Fine Arts 3 s.h.	Enterprise Computing II (070x.xxx) 3 s.h. Principles of Marketing (0509.200) 3 s.h. Principles of Accounting II (0503.211) 3 s.h. Legal Environment of Business (1498.242) 3 s.h. General Education or Non-Business Elective 3 s.h.

**JUNIOR YEAR (30 s.h.)**

Fall Semester (5 <sup>th</sup> Semester) 15 s.h.	Spring Semester (6 <sup>th</sup> Semester) 15 s.h.
Operations Management (0506.305) 3 s.h. Organizational Behavior (0506.309) 3 s.h. Management Information System (0702.334) 3 s.h. Design of Database Systems (0702.338) 3 s.h. Business Systems (0702.3xx) 3 s.h.	Advanced Database Management (0702.3xx) 3 s.h. Principles of Finance (0504.300) 3 s.h. Network Management (0702.3xx) 3 s.h. Principles of System Design (0702.322) 3 s.h. General Education or Non-Business Elective 3 s.h.

**SENIOR YEAR (30 s.h.)**

Fall Semester (7 <sup>th</sup> Semester) 15 s.h.	Spring Semester (8 <sup>th</sup> Semester) 15 s.h.
Project Management (0702.4xx) 3 s.h. Managing International Business (0506.330) 3 s.h. Business Web Applications (0702.4xx) 3 s.h. MIS Restricted Elective 3 s.h. General Education or Non-Business Elective 3 s.h.	MIS Capstone Experience (0702.4xx) 3 s.h. Business Policy (0506.402) 3 s.h. Electronic Business – IS Perspectives (0702.3xx) 3 s.h. General Education or Non-Business Elective 3 s.h. General Education or Non-Business Elective 3 s.h.



**F. Describe to what extent courses from other units in the institution will be used and include evidence of agreement from those units to provide such services.**

MIS students will no longer be required to take two courses taught by the Computer Science Department, namely Computing Environments (0701.200) and Computer Science & Programming (0704.103). We anticipate a reduction in enrollments translating to 2 less sections of each course each academic year.

MIS students will be required to take two new courses taught by the Computer Science Department, namely Enterprise Computing I (070x-xxx) and Enterprise Computing II (070x-xxx). We anticipate needing 2 sections of each course taught each academic year. The MIS curriculum committee members met with the Computer Science curriculum committee, the Computer Science curriculum committee has agreed to prepare new course proposals for both courses to be submitted during this same cycle.

**G. Compare and contrast the program with similar programs of high quality.**

This curriculum change proposal will make our program much more consistent with the IS 2002 standard MIS curriculum model. The IS 2002 Model has been designed by and is supported by the major professional MIS organizations.

We asked Drexel University to review our proposed curriculum and to comment on its merits, distinctiveness, and rigor. The response is attached to this change proposal.

**H. Administration (describe the administrative organization of the program with details of the specific role of each group and/or department):**

The MIS Specialization will remain within the Management and MIS Department within the College of Business.

**I. Program Evaluation: Procedures that will be used to assess the success of the program in meeting its goals and objectives.**

The MIS Program Review process will continue to be used to internally assess and evaluate the program each year. In addition, this curriculum change proposal is designed to support our efforts in achieving ABET accreditation. The ABET accreditation will provide outside certification that our MIS program is rigorous and effective.

J. Results of Consultation:

From: Jennifer Kay <kay@elvis.rowan.edu>

To: ROWANDOM.GWIA."harper@rowan.edu", ROWANDOM.GWIA."Rusu@rowan.edu",  
ROWANDOM.GWIA."mcfarland@rowan.edu", ROWANDOM.GWIA."Fleming@rowan.edu",  
ROWANDOM.GWIA."baliga@rowan.edu", ROWANDOM.GWIA."Amer@rowan.edu",  
ROWANDOM.GWIA."nlt@elvis.rowan.edu", ROWANDOM.GWIA."hartley@elvis.rowan.edu",  
ROWANDOM.GWIA."hamilton@rowan.edu"

Date: Wednesday - October 6, 2004 2:01 PM

Subject: Consultation for MIS program

To: Bob Fleming, Chair, Management/MIS Department  
From: Computer Science Curriculum Committee  
Re: MIS major curriculum proposal

Thank you for giving the Computer Science Department the opportunity to review and comment on the following proposals:

- New Course: Business Systems
- New Course: Business Web Applications
- New Course: Project Management
- New Course: MIS Capstone Experience
- Change in Math/Science Gen Ed Requirements for Business Administration Major
- Change in Prereqs, Name, Hegis, and Description for Information Systems Planning and Network Management
- Change in Prereqs for Management Information Systems
- Change in Prereqs for Design of Database Systems
- Change in Prerequisites and Hegis Number for Advanced Database Management
- Change in Prerequisites for Seminar in MIS
- Change in Prerequisites for E-Business: IS Perspective
- Major Curricular Change, Change in Required Courses and Restricted Electives for MIS Specialization.

We support these proposals.

We understand that there is no accreditation in MIS available, and therefore you have decided to apply for accreditation in Information Systems which falls under the "Computing" area of the Accreditation Board for Engineering and Technology. It is our belief that you should further increase the number of Computer Science courses in the MIS specialization beyond simply Business Programming 1 and 2 in order to support your accreditation, but we recognize that you prefer not to do so at this time.

While we support your application for accreditation, we would NOT be supportive of a change in the name of your department or degree to Information Systems. We believe that a degree in Information Systems should be a joint program of both Computer Science and Management / MIS.

--

Jennifer Kay, Chair

Rowan University

Computer Science Department

201 Mullica Hill Road

Glassboro, NJ 08028

email: kay@elvis.rowan.edu

voice: 856-256-4806


fax: 856-256-4741

web: <http://www.rowan.edu/~kay/>

## Mail Message

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**From:** "Bay Arinze" <arinzeob@drexel.edu>  
**To:** ROWANDOM.GWIA."hamilton@rowan.edu", ROWANDOM.GWIA."mcfarland@rowan.edu"  
**Date:** Thursday - October 7, 2004 7:17 PM  
**Subject:** Consultation for Rowan University's proposed MIS curriculum  
 Mime.822 (3268 bytes) [\[View\]](#) [\[Save As\]](#)

### EVALUATION STATEMENT FOR ROWAN UNIVERSITY'S PROPOSED MIS CURRICULUM

I recently reviewed the proposed MIS curriculum from the Management/MIS Department at Rowan University. To arrive at a professional, expert opinion, I carefully studied all the courses and their sequencing.

I proceed, first of all, to briefly describe my own credentials. I have taught in LeBow College of Business at Drexel University for over sixteen years. I also served as the Head of the Management Department for over two years and currently serve as the Coordinator of the Management Information Systems (MIS) program. I have been involved in College-wide curriculum reviews and redesign and have served as a course advisor to students from all majors in the college. Therefore, I am very familiar with the structure of undergraduate MIS programs in Colleges of Business.

My earned MS and Ph.D. degrees in information systems are from the London School of Economics (LSE), a world-renowned program. LSE is a part of the University of London system. I have also taught courses that include all types of business college majors, at both undergraduate and graduate levels.

Rowan University's MIS program has created a curriculum that has all the necessary ingredients to enable students to succeed in the IT industry. I note the new courses in Business Web Applications, Business Systems, Project Management and the MIS Capstone. These are excellent developments for the program. The new emphasis on the use of Java as the recommended programming language is also laudable. I am in agreement regarding the sequencing of courses in the concentration as well as the specific courses included in the concentration. The key elements of analysis/design, networking, databases, and web development are covered appropriately. This superb curriculum proposal reflects a modern MIS curriculum that would be a model for other universities seeking to offer a leading-edge MIS education to its students.

Sincerely,

Dr. Bay Arinze  
Professor of Management and  
MIS Program Coordinator  
Drexel University  
Philadelphia, PA 19104  
215 895 1798

## Mail Message

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**From:** Berhe Habte-Giorgis (Berhe Habte-Giorgis)  
**To:** Daniel J. McFarland  
**Date:** Friday - October 8, 2004 10:56 AM  
**Subject:** Re: Consultation request: MIS Curriculum Changes

Dan

The Marketing Department supports your course proposals. The hegis number for Principles of Marketing is 200 level, as pointed out by Manny.

Berhe Habte-Giorgis  
Chair, Department of Marketing