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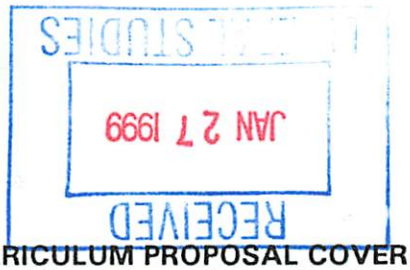

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Submission Date: _____
Action-Date: UWUCC App 1/25/00
Senate App 2/29/00

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

I. **CONTACT**

Contact Person Kenneth L. Shildt Louise Burky Phone 2929

Department MIS and Decision Sciences

II. **PROPOSAL TYPE (Check All Appropriate Lines)**

_____ **COURSE** _____
Suggested 20 character title

____ New Course* _____
Course Number and Full Title

____ Course Revision _____
Course Number and Full Title

____ Liberal Studies Approval+ for new or existing course _____
Course Number and Full Title

____ Course Deletion _____
Course Number and Full Title

____ Number and/or Title Change _____
Old Number and/or Full Old Title

_____
New Number and/or Full New Title

____ Course or Catalog Description Change _____
Course Number and Full Title

__X__ **PROGRAM:** __X__ Major _____ Minor _____ Track

____ New Program* _____
Program Name

__X__ Program Revision* MIS
Program Name

____ Program Deletion* _____
Program Name

____ Title Change _____
Old Program Name

_____
New Program Name

III. **Approvals** (signatures and date)

Louise B. Burky
Department Curriculum Committee

Kenneth L. Shildt
Department Chair

College Curriculum Committee

Robert Lang
College Dean

+Director of Liberal Studies (where applicable)

*Provost (where applicable)

PART II DESCRIPTION OF CURRICULUM CHANGE

1. Catalog description for the revised program in the appropriate form.

Management Information Systems prepares students for careers in Computer Based Information Systems in organizational environments. Areas such as networking and user/manager involvement in the global business environment are integrated with the traditional skills of programming, analysis and design, database development, various architectures and application development. Microprocessor technology, the mainframe environment, and client server applications are included. These adhere to standards for a balanced curriculum as promulgated by the Association for Information Systems (AIS), the technology accrediting arm of the American Assembly of Collegiate Schools of Business (AACSB).

Decision Sciences provides students with a knowledge of statistical and quantitative methods used to enhance the business decision process. The methodologies include linear programming, forecasting, simulation, stochastic process, queuing and network models.

The department creates a learning process that instills in its graduates respect, integrity, excellence and a commitment to life-long learning. Internship experiences facilitate the student's entry into full-time employment in a rapidly changing technological environment.

The department welcomes minors for students who are majoring in other business programs. The minor program offers other business majors a technical enhancement to their area of interest, a necessity for today's business manager.

New Catalog Listing

Bachelor of Science–Management Information Systems

Liberal Studies: As outlines in Liberal Studies section with the following specifications:		55-58
Mathematics: MA121		
Social Sciences: EC121, PC101		
Liberal Studies Electives: MA214, EC122, BE/CO101 no courses with IM prefix		
College: Business Administration Core Required Courses:		33
AD321 Business and Interpersonal Communications	3sh	
AG201 Accounting Principles I	3sh	
AG202 Accounting Principles II	3sh	
BL235 Introduction to Business Law	3sh	
FI310 Finance I	3sh	
IM300 Information Systems: Theory and Practice	3sh	
MG310 Principles of Management	3sh	
MG330 Production and Operations Management	3sh	
MG495 Business Policy	3sh	
MK320 Principles of Marketing	3sh	
QB215 Business Statistics	3sh	
Major: Management Information Systems Required Courses: (24 sh)		33
IM205 Foundations of MIS	3sh	
CO220 Applied Computer Programming	3sh	
IM350 Business Systems Technology	3sh	
CO/IM352 LAN Design and Installation	3sh	
IM370 Advanced COBOL	3sh	
IM450 Data Base Theory & Application	3sh	
IM451 Systems Analysis	3sh	
IM470 Systems Design	3sh	
Controlled electives: (9 sh)		
Select three from the following: CO/IM354, IM372, IM382, IM455, IM480, IM481 IM485, IM493(3sh max), QB380, QB401, CO110, CO300, CO310, CO345, CO362, CO444		
Other Requirements:		0
Free Electives:		2-5
Total Degree Requirements:		126

Distribution Requirement: All ECOB majors (except those majoring in Business Education) must take a minimum of 50 percent of their degree requirements (i.e., at least 63 semester hours) in non-business coursework

2. Summary of Changes

a. Table comparing old and new programs:

Bachelor of Science - Management Information Systems

Old Program		New Program	
Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MA121 Social Science: EC121, PC101 Liberal Studies electives: MA214, EC122, BE/CO101, no courses with IM prefix	54-56	**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: Mathematics: MA121 Social Science: EC121, PC101 Liberal Studies electives: MA214, EC122, BE/CO101, no courses with IM prefix	55-58
College: Business Administration Core	33	**College: Business Administration Core**	33
Required courses:		**Required courses:**	
AD321 Business and Interpersonal Communications	3sh	AD321 Business and Interpersonal Communications	3sh
AG201 Accounting Principles I	3sh	AG201 Accounting Principles I	3sh
AG202 Accounting Principles II	3sh	AG202 Accounting Principles II	3sh
BL235 Introduction to Business Law	3sh	BL235 Introduction to Business Law	3sh
FI310 Finance I	3sh	FI310 Finance I	3sh
IM300 Information Systems: Theory and Practice	3sh	IM300 Information Systems: Theory and Practice	3sh
MG310 Principles of Management	3sh	MG310 Principles of Management	3sh
MG330 Production and Operations Management	3sh	MG330 Production and Operations Management	3sh
MG495 Business Policy	3sh	MG495 Business Policy	3sh
MK320 Principles of Marketing	3sh	MK320 Principles of Marketing	3sh
QB215 Business Statistics	3sh	QB215 Business Statistics	3sh
Major: Management Information Systems	27	**Major: Management Information Systems**	33
Required courses:		**Required courses:** (24 sh)	
		IM205 Foundations of MIS	3sh
CO220 Applied Computer Programming	3sh	CO220 Applied Computer Programming	3sh
IM350 Business Systems Technology	3sh	IM350 Business Systems Technology	3sh
IM370 Advanced COBOL	3sh	CO/IM352 LAN Design and Installation	3sh
IM450 Data Base Theory and Application	3sh	IM370 Advanced COBOL	3sh
IM451 Systems Analysis	3sh	IM450 Data Base Theory & Application	3sh
IM470 Systems Design	3sh	IM451 Systems Analysis	3sh
		IM470 Systems Design	3sh
Controlled electives:		**Controlled electives:** (9 sh)	
At least one course from list: CO110,250,300,310,345	3sh	Select three from the following:	
Two courses from list: IM382, IM480, IM481, QB380 or above CO courses (1)	6sh	CO/IM354, IM372, IM382, IM455, IM480, IM481, IM485, IM493(3sh max), QB380, QB401 CO110, CO300, CO310, CO345, CO362, CO444	
Other Requirements:	0	**Other Requirements:**	0
Free Electives:	8-10	**Free Electives:**	2-5
Total Degree Requirements:	124	**Total Degree Requirements:**	126
(1) One course from AG300, AG301, AG311 may be substituted		**Distribution Requirement:** All ECOB majors (except those majoring in Business Education) must take a minimum of 50 percent of their degree requirements (i.e., at least 63 semester hours in non-business coursework)	

b. List of all associated course changes (new or revised courses, number, title, or description changes, and deletions).

(1) Additions

(a) to Required (increase from 18-24sh):
IM 205 Foundations of MIS
CO/IM 352 LAN Design and Installation (new course)

(b) to Controlled Electives (9sh):
CO/IM 354 Testing and Controlling LANs (new course)
CO 362 UNIX and C
CO 444 Productivity Tools and Fourth Generation Language
IM 372 Microcomputer Applications
IM 455 Data Warehousing and Mining (new course)
IM 485 Seminar: IS Current Topics (new course)
IM 493 Internship in MIS
QB 401 Forecasting Methods for Business

(2) Deletions from Controlled Electives List
CO 250 Introduction to Numerical Methods
One course from AG300, AG301, AG311 may be substituted.

3. Rationale for Change:

In order to receive AACSB accreditation, Eberly College of Business Major Programs may not require students to have more than fifty percent of the total credits in business courses. Historically, MIS majors have taken more than fifty percent of their total in business classes in order to complete minors and internship experiences. By raising the total number of credits to 126, the MIS major will be balanced with 63 credits in non-business courses and 63 which consist of the business core, thirty credits, and major program, thirty-three credits. QB 215 Business Statistics is counted as a non-business course by AACSB.

In addition to AACSB requirements, the *IS'97 Model Curriculum and Guidelines for Undergraduate Degree Programs in Information Systems* has been reviewed in the preparation of this proposal. The IS'97 document is a joint effort of the major professional associations in the information systems and computer science disciplines. The associations include the following:

- Association for Computing Machinery (ACM)
- Association for Information Systems (AIS)
- Association for Information Society Professionals (AITP) (formerly DPMA)

An overview of the IS'97 curriculum model appears in the Appendix of this proposal. The entire document can be reviewed in the MIS and Decision Sciences office.

The MIS major is being expanded from twenty-seven to thirty-three credit hours. The expansion of credits will enable MIS majors to have an exposure to the breadth and depth of skills required for entry into the profession of Information Systems. The curriculum as proposed will include twenty-four credit hours of required courses and nine credit hours of controlled electives. The required list will be expanded to include the following courses:

IM 205, Foundations of Information Systems, is being inserted into the set of required courses in MIS in order to provide students with a survey of the professional activities associated with a career in Information Systems. It also will help in the retention of majors since it gives students an opportunity to meet the MIS faculty much earlier in their scheduling of classes. It is recommended as the first major requirement in the IS'97 document.

CO/IM 352, LAN Design and Installation, is being proposed jointly as a cross-listed course by the Computer Science and MIS and Decision Sciences Departments. This course is also being required in the Technology Support Major. A course in networking and communication technology also is recommended in the IS'97 document.

The following courses are being **added** to the controlled elective list: (these are course that have been added to the catalog since our last MIS program revision)

- CO/IM 354 Testing and Controlling LANs
- CO 362 UNIX and C
- CO 444 Productivity Tools and Fourth Generation Language
- IM 372 Microcomputer Applications
- IM 455 Data Warehousing and Mining
- IM 485 Seminar: IS Current Topics
- IM 493 Internship in MIS
- QB 401 Forecasting Methods for Business

In addition, the list of controlled electives will continue to include courses from the Computer Science Department. These courses will enable MIS majors to have more flexibility in developing a minor in Computer Science and take advantage of the growing breadth of knowledge in the computer and information fields.

The MIS curriculum revision and detailed course proposals which follow reflect many hours of reviewing the curriculum materials included in the IS'97 document, Internet sources and the curriculum guidelines of the AACSB accreditation standards. The help and support of the Office Systems and Computer Science Departments was also solicited and received. The MIS and Decision Sciences Department wishes to acknowledge the quantity and quality of work done by the members of these departments in the final design of this proposal.

The cross-listed courses in Networking (352 and 354) are the result of the efforts of the Computer Science and MIS and Decision Sciences Departments to share both faculty and physical resources to provide the students majoring in information technology disciplines an opportunity to learn valuable networking concepts needed in their professional careers.

PART III IMPLEMENTATION

1. **How will the proposed revision affect students already in the existing program?**

   Only students entering the MIS program, freshmen and transfers, will be required to begin the MIS major using the proposed program. Students who are presently enrolled as MIS majors will continue to follow the current curriculum model. However, the new courses which are being added may be used as controlled electives by these students.

2. **How will the proposed revision affect faculty teaching loads? Have additional faculty been authorized? If you are adding requirements, how will adequate seats be provided?**

   Faculty teaching assignments will be adjusted internally to cover these changes. In addition, complement previously used for the Computer and Office Information Systems (COIS) program at the branch campuses will now be available for reassignment. The COIS program at the branches has been discontinued.

   Note on Faculty Resources: At present, we are doing much of the new program with two and one half faculty vacancies. When these positions are filled again, we will be able to offer more sections and more electives. I have no way at present to speculate on schedules until the new people have been hired, and I know their capabilities. Given the need for flexibility in growing programs and the inevitable changes that must occur, I feel this is an unreasonable request and outside the parameters of the UG Curriculum guidelines. Bear in mind that all courses being added are not taught all the time but done on a rotating, as needed, basis.

3. **Are other resources adequate? (Space, equipment, supplies, travel funds)**

   The facilities of the Eberly College of Business including computer labs, software and related resources are adequate for implementing this proposal. Room and hardware facilities have been approved by the Eberly College of Business for the Networking and Client Server classes. Accommodations for training have been made available by the University and the College.

4. **Do you expect an increase or decrease in the number of students as a result of these revisions? If so, how will the department adjust?**

   Enrollments have increased significantly during the past two years in response to the increasing number of opportunities for students majoring in Information Technology. The response to the new courses that have been offered as Special Topics on a trial basis has been excellent. The proposed program changes will provide students with a wider variety of courses and greater program stability as permanent courses replace a series of special topics offerings which have been taught over the past several years.