LSC Use Only Number: Submission Date: Action-Date:			UWUCC USE Only Number: Submission Date: Action-Date:  Senate App 2/29/06		
l.	CURRICULUM PROPOSAL COVER SHEET University-Wide Undergraduate Curriculum Committee CONTACT				
	Contact PersonPhone_5773				
	Department MIS and Decision	n Sciences		·	
II.	PROPOSAL TYPE (Check All Appropriate Lines)				
	XCOURSEI	X COURSE Business Systems Analysis and Design Suggested 20 character title		gn	
	New Course*		Course Number and Full Title		
	X Course Revision IM 251 Business Systems Analysis and Design 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 C	hange	Old Number and/or Full Old Title		
			New Number and/or Full New	/ Title	
	Course or Catalog De	scription Change	Course Number and Full Title		
	PROGRAM:	Major	Minor	_ Track	
	New Program*		Program Name		
	Program Revision*		Program Name		
	Program Deletion*		Program Name		
	Title Change		Old Program Name		
			New Program Name		
III.	Approvals (signatures and date Department Curriculum Committee College Curriculum Committee	Depar	ment Chair  Manage Dean	Busky	
	+ Director of Liberal Studies (where a	pplicable) *Prov	vost (where applicable)		

# Part II Description of the Curriculum Change

1. New syllabus of record, including catalog description with course title, number of credits, prerequisites and an appropriately written course description.

Syllabus of Record: IM 251 Business Systems Analysis and Design

# I. Catalog Description

IM 251 Business Systems Analysis and Design

3 credits 3 lecture hours 0 lab hours (3c-0l-3sh)

Prerequisites: AG201 Principles of Accounting I and IM205 Foundations of MIS

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

### II. Course Objectives

By the end of this course, students will have:

- Explored the System's Development Life Cycle as a problem solving methodology.
- Explored information processing concerns from the perspectives of management, users, and computer specialists.
- Analyzed the key aspects comprising a computer information system, including hardware, software, personnel, documentation and training.
- Applied the tools and techniques of systems analysis and design to business problemsolving scenarios.
- Utilized business software in the design and development of systems.

#### III. Detailed Course Outline

A. Intro to Course, Systems Theory
Systems Development Life Cycle
Preliminary Investigation
Determining Requirements
Analyzing Requirements

(12 hours)

Logical Modeling

B. Generating / Evaluating Alternatives

(15 hours)

Prototyping, CASE, Object-Oriented Design

Output Design

Input Design

MS Access Software Tools

File Concepts

File and Database Design

C. Software /Interface Design, Systems Architecture Application & System Development System Implementation & Evaluation Project Management Systems Operation & Support

(15 hours)

#### IV. Evaluation Methods

66% - Exams (3) @ 22% each

24% - Major Project

10% - Minor Assignments

Grading Scale: 90-100=A; 80-89=B; 70-79=C; 60-69=D; below 60=F

### V. Required Textbook

Shelly, Cashman, Rosenblatt, <u>Systems Analysis and Design</u>, 3rd ed., Course Technology (ITP), 1998.

### VI. Special Resource Requirements

The coure will utilize existing PC labs in the Eberly College of Business.

### VII. Bibliography

Bradley, Julia Case & Anita C. Millspaugh. <u>Programming in Visual Basic 5.0</u>, McGraw-Hill, 1998.

Burrows, William E. & Joseph D. Langford. <u>Programming Business Applications with Microsoft Visual Basic 5.0</u>, McGraw-Hill, 1998.

Capron, H.L. Computers: Tools for an Information Age, 5th ed., Addison-Wesley, 1998.

Carey, Patrick. Creating Web Pages with HTML, Course Technology, 1998.

Davis, William S. Business Systems Analysis and Design, Wadsworth Publishing, 1994.

Ekedahl, Michael V. & William A. Newman. <u>Microsoft Visual Basic 5.0 for Windows: An Object-Oriented, Data-Driven Approach</u>, Course Technology, 1998.

Grauer, Robert T & Maryann Barber. Exploring Microsoft Windows 98 and Essential Computing Concepts, Prentice Hall, 1998.

Grauer, Robert T. & Maryann Barber. Exploring Microsoft Office 97 Professional, Volume II, Prentice Hall, 1998.

Kendall, Kenneth E. & Julie E. Kendall. Systems Analysis and Design, 3rd ed., Prentice Hall, 1995.

- Kroenke, David M. <u>Database Processing: Fundamentals, Design, and Implementation</u>, 6<sup>th</sup> ed., Prentice Hall, 1998.
- Laudon, Kenneth C. & Jane P. Laudon. <u>Management Information Systems: New Approaches</u> to Organization & Technology,5<sup>th</sup> ed., Prentice Hall, 1998.
- Nickerson, Robert C. Business and Information Systems, Addison-Wesley, 1998.
- Pratt, Philip J. & Joseph J. Adamski. <u>Database Systems Management and Design</u>, 3<sup>rd</sup> ed., Boyd & Fraser, 1994.
- Pratt, Philip J. A Guide to SOL, 3rd ed., Boyd & Fraser, 1995.
- Shelly, Gary B. & Thomas J. Cashman & Steven G. Forsythe. Windows 95: Complete Concepts and Techniques, Boyd & Fraser, 1997.
- Stallings, William & Richard Van Slyke. <u>Business Data Communications</u>, 3<sup>rd</sup> ed., Prentice Hall, 1998.
- Stern, Nancy & Robert A. Stern. Structured COBOL Programming, 8th ed., Year 2000 Update Version, John Wiley & Sons, Inc., 1998

# 2. A summary of the proposed revisions.

Prerequisites are changing to AG 201 and IM 205.

#### 3. Justification for the revision.

- (a) IM 241 is no longer being offered. Its deletion was submitted in 1997.
- (b) A 300 level course should not be a prerequisite for a 200 level course.
- (c) IM 205 is the appropriate prerequisite to replace IM 241 or IM 300.
- (d) AG 201 ensures students have had some exposure to business accounting systems.

## 4. The old syllabus of record.

IM 251 Business Systems Analysis and Design

Prerequisite: IM 24l Management Information Systems

### Catalog Description:

This course involves teaching the tools and techniques required for the analysis and the design of business systems. Along with the in class discussions of the principles and techniques for analyzing, designing, and constructing the system, the students will also formulate system teams in order to analyze a business information system, and to design an improved system.

Pre-requisites: IM 241 (Intro to MIS)

#### Course Objectives

1. To teach the student to utilize methods by which systems may be analyzed and developed.

- 2. To teach the student the functional subsystem of a firm together with procedures for designing and controlling the implementation of such systems.
- 3. To develop the student's ability to analyze the problems of a business information system and to design an improved system.
- 4. To teach the student the role of a systems analyst in business problems solving procedures.

#### Course Outline

Overview of Systems Concepts
 Business Systems and Information Systems
 The Systems Approach
 Systems Analysis
 System Life Cycle
 The Process of Systems Analysis
 Review Functional Sub-Systems of Organizations

II. The Investigation Phase
Problem Recognition
Initial Investigation
Information Gathering
Feasibility Study
The Process and Products of Analysis
Cost/Benefit Analysis
Communication

III. Analysis and General Design Phase

Existing System Review
System Modeling Tools
New System Requirements
Output Design
Input Design
Logical Data Analysis
New System Design
File Design
Control and Reliability Design
Implementation and Installation Planning

- IV. Implementation, Installation, and Review Phases
   Detailed Design and Implementation Phase
   Installation
   Project Management
- V. System Analysis Project
  Formation of System Teams
  Existing System Review
  New System Requirements
  New System Design
  System Presentation

VI. The Importance of MIS to Business Organizations Transaction Processing

Data Base Management

Systems Security

**Decision Support Systems** 

Communications

Evaluations: Evaluations will consist of quizzes, examinations, and a term project.

Text: Computer Information Systems Development: Design and Implementation by Adams,

Powers, and Owles; Southwestern Publishing

5. Liberal Studies course approval form and checklist (if appropriate).

Not applicable.