

LSC Use Only
Number: _____
Action: _____
Date: _____

UWUCC Use Only
Number: 91-8
Action: _____
Date: _____

CURRICULUM PROPOSAL COVER SHEET
University-Wide Undergraduate Curriculum Committee

I. Title/Author of Change

Course/Program Title: IM 241 - Introduction to MIS
Suggested 20 Character Course Title: MIS: Theory & Prac.
Department: MIS and Decision Sciences
Contact Person: Dr. Louise Burky, 357-7785

II. If a course, is it being Proposed for:

Course Revision/Approval Only
 Course Revision/Approval and Liberal Studies Approval
 Liberal Studies Approval Only (course previously has been approved by the University Senate)

III. Approvals

Louise B. Burky
Department Curriculum Committee
SWQ
College Curriculum Committee

[Signature]
Department Chairperson
[Signature]
College Dean *

Director of Liberal Studies
(where applicable)

Provost (where applicable)

*College Dean must consult with Provost before approving curriculum changes. Approval by College Dean indicates that the proposed change is consistent with long range planning documents, that all requests for resources made as part of the proposal can be met, and that the proposal has the support of the university administration.

IV. Timetable

Date Submitted
to LSC: _____
to UWUCC: _____

Semester to be
implemented:
Fall 1991

Date to be
published
in Catalog:

INDIANA UNIVERSITY OF PENNSYLVANIA
SENATE CURRICULUM COMMITTEE B-2

NEW COURSE PROPOSAL

Department: MIS and Decision Sciences

Person to contact for further information: Dr. Louise Burky, 357-7785

Course affected: IM 241 - Introduction to MIS

Desired semester of change: Fall 1991

Approvals:

Department Curriculum Committee Chairperson: _____

Department Chairperson: _____

College Advisory Committee Chairperson: _____

College Dean: _____

A. DESCRIPTION OF ACADEMIC NEED

A1. Catalog Description: (PLEASE SEE ATTACHMENTS- Pages 5-6)

A2. Course Syllabus: (PLEASE SEE ATTACHMENTS- Pages 7-9)

A3. Need Fulfilled: This course will integrate computer knowledge from CO/BE/IM 101 with the theory and practice of information systems in the contemporary business environment. At the 300 level it will serve the needs of future information specialists and future managers.

A4. Effect on other courses: This course replaces IM 241 at the 300 level, where it is customarily placed at other universities. It will, however, remain at branch campuses as Computer and Office Informations (COIS).

A5. Does this course follow traditional offerings in the department? Yes,
however, revising this course to function as an integrated, interdisciplinary
area of study reflects the academic roots of the MIS discipline. This
approach blends the full range of computerized information systems with
management decision making in the organization.

A6. Has this course been offered at IUP on trial basis? In various forms it has
been part of the business core for many years. This version is an upgrade and
reflects the ongoing development of the MIS discipline.

A7. Is this a dual level course? No.

A8. Do other universities offer this course? Yes. Virtually all Colleges of
Business require this course as part of the common body of knowledge as
prescribed by AACSB.

A9. Is this course recommended or required by a professional society? Yes.

AACSB - American Assembly of Collegiate Schools of Business.

ACM - Association for Computing Machinery.

DPMA - Data Processing Management Association

B. INTERDISCIPLINARY IMPLICATIONS

B1. Will the course be offered by one instructor or will there be a team? _____

Single Instructor, Multiple Sections.

B2. Are additional or corollary courses needed? No. However, successful implementation will require explicit points of interface of course content with courses prior and subsequent to IM 300. Professional development for faculty, by the recommended textbook authors, would enhance the IS orientation.

B3. What is the relationship of the content of this course to the content of courses offered by other departments?

This course is specifically designed to fulfill the needs of business students and does not duplicate material taught by other departments.

B4. Is this course applicable in a program of the school of continuing education directed at other than full-time students?

This course should not be taken by non-College of Business, four year degree students.

C. EVALUATION

C1. What procedures are expected to be used to evaluate student progress? Exams, quizzes, software application assignments, class participation, written cases and/or a research paper.

C2. Variable credit? No.

D. IMPLEMENTATION

D1. What resources are needed to teach this course? Since this course is a replacement, no additional faculty complement is needed. The course requires student use of a personal computer. These are provided in university computer labs. It would be desirable to have overhead projection capabilities for computer displays permanently available in all classrooms where this course is taught.

D2. How many sections? Ten (10) sections are offered each term. It is expected that this level will continue since the course is part of the business core required of all MIS and non-MIS majors.

D3. How often will the course be offered? Each semester.

D4. How many students will be accommodated? Forty (40) per section.

I. Catalog Description (A1)

IM 300 Title: Information Systems: Theory and Practice

This course will include basic MIS concepts, fundamentals and practices. Broad areas of coverage are: Principles, the computer as a problem solving tool, Computer Based Information Systems (CBIS), organizational information systems, and IS management. Prerequisites: CO/BE/IM 101, AG 202.

II. Course Objectives

The primary objective of IM 300 is to provide the student with an understanding of how the computer can be used as part of a Decision Support System (DSS) or Management Information System (MIS).

Specific objectives are:

1. To introduce the student to information, its value and characteristics.
2. To demonstrate how the informational needs of managers vary according to their place in the organization's hierarchy.
3. To describe the kinds of information systems that support decisions at the various functional levels of the organization.
4. To contrast and compare information processing capabilities in the human being and computerized systems, the linkages between them, and the problems created by their differences.
5. To create in every business student information literacy as contrasted to, and in addition to, computer literacy. Where every student learns to retrieve, process and evaluate information requirements.
6. To introduce the general business student to the concepts and techniques used to develop a computerized business information system.

III. Justification for Change

1. The transfer of hardware and software fundamentals to IM 101, Computer Literacy, necessitates a restructuring of course content for IM 241 - Introduction to MIS.
2. AACSB, DPMA and various recent surveys place emphasis on organizational patterns of information utilization, particularly by the end user. These suggest a change in focus of course content.
3. Information Systems (IS) as an academic discipline has its roots in multiple fields of study and research. "The major fields which intersect with information systems are behavioral science, organization and management, organizational functions, management accounting, decision science and computer science. The intersection is defined by MIS topics to which the intersecting field of study directly applies. Some are reference disciplines; others are utilizing fields." (Davis, 1980)

MIS is therefore distinct from programming, per se, or what is sometimes known as an MIS.

IV. Methodology

Teaching methods will include lecture, case studies, and exercises using one each of the types of end user systems discussed in the course. These will include Database, Lotus 1-2-3, a DSS, a simple Expert System, and a User Oriented Design Package. Case studies will be written, thereby fulfilling the writing requirement. At least one of these areas will be approached experientially.

V. Suggested Evaluation

Three examinations will be given. Exams, quizzes, software application assignments, class participation, written cases and/or a research paper.

Suggested point distribution:

	<u>Points</u>
Major Exams	500
Case assignments and/or paper(s)	500
Software Assignments (4 or 5)	400
Quizzes (15 each)	150
Participation - 10% of total points	

VI. Recommendation to the Instructor

Although mainly a lecture-oriented course, students should be informed that a substantial amount of lab-time is required. (3-4 hours a week) for developing solutions to assignments.

Software application assignments should vary, each assignment requiring student to implement the concepts and approaches covered in class. These should correspond to textbook content. The instructor should encourage students to allocate their time equally between class, individual and group effort as an effective means to learn the material. Group activities may be extended to projects and introduction of group decision support systems (GDSS).

VII. Required Text

Laudon, Kenneth C. and Laudon, Jane Price, Management Information Systems, New York, NY: MacMillan, (1991).

McLeod, R., Management Information Systems, Fourth Edition, MacMillan, (1990).

McLeod, R. and Schell, Management Information Systems Case Book, Fourth Edition, MacMillan, (1990).

VIII. Course Outline (A2)

TOPIC	Text Chapters	% of coverage
I. Information Management	1, 2	8
A. Importance		
B. The Modern Manager		
C. Management Skills		
D. Manager and Systems		
E. Data vs. Information		
F. Role of the Computer		
II. Systems Theory	3, 4	7
A. The General Model		
B. Use of the Model		
C. Concept of Resource Flows		
D. Systems Approach		
E. Problem Solving		
Preparation, Definition, Solution		
III. The Computer as a Problem Solving Tool	5	8
A. Computer Architecture		
1. Mainframe		
2. Microcomputer		
B. I.P.O.		
C. Software		
Systems vs. Application		
D. User Friendliness		
E. Cost Justification		
IV. The Data Base	6	10
A. Information Data Management		
B. Storage		
1. Media and their uses		
2. Secondary storage		
C. The Database Era		
D. The Database		
1. Concept		
2. Structure		
3. Software		
4. Use of		
5. Creation of		
E. The Database Administration		
V. Communications	7	8
A. The Model		
B. Equipment		
C. Software		
D. Networks		
1. Topologies		
2. Protocols		
3. Architecture		
E. The Network Manager		
F. The Role of Datacommunications		

TOPIC

Text
Chapters % of coverage

VI.	CBIS	8, 9	8
	A. DP Tasks		
	B. Systems overview		
	C. MIS and Functional Subsystems		
	D. Behavioral Influences in Design		
	E. Use in Problem Solving		
VII.	Decision Support Systems	10	8
	A. The Concept		
	B. Objectives		
	C. Decision Making		
	D. Group DSS		
VIII.	Office Automation	11	5
	A. Factory		
	B. Office		
	C. Role in Problem Solving		
IX.	Expert Systems	12	8
	A. Artificial Intelligence		
	B. Parts of an Expert System		
	1. User Interface		
	2. Knowledge Base		
	3. Inference Engine		
	4. Development Engine		
	C. Applications		
	D. Evaluation		
X.	Executive Information Systems	13	5
	A. Unique Information Needs of Executives		
	B. Implementation Decisions		
	C. Critical Success Factors		
	D. Intelligence Systems		
XI.	Organizational Systems		15
	A. Marketing	14	
	B. Manufacturing	15	
	C. Financial	16	
XII.	Systems Management	17	10
	A. Development Strategies		
	B. Security and Control		
	C. Information Management		

REFERENCES

1. Burch, J., Strater, F. and Grudnitsic, G., Information Systems: Theory and Practice, New York, NY: John Wiley and Sons, (1989).
2. Cohen, Alan, A Guide to Networking, Boston, MA: Boyd and Fraser, (1991).
3. Davis and Olsen, Management Information Systems, New York, NY: McGraw-Hill, (1982).
4. Dickson and Wetherbe, Management of Information Systems, New York, NY: McGraw-Hill, (1985).
5. Kronke, David, Management Information Systems, Santa Cruz, CA: Mitchell Publishing, (1989).
6. Lucus, Managing Information Services, New York, NY: MacMillan, (1989).
7. McLeod, R., Management Information Systems, Chicago, IL: SRA, (1990).
8. O'Brien, James, Management Information Systems: A Managerial End-User Perspective, Chicago, IL: Irwin, (1990).
9. Stallings, William, Business Data Communications, New York, NY: MacMillan, (1990).
10. Turban, Efraim, Decision Support and Expert Systems, New York, NY: MacMillan, (1990).
11. Wysocki, Robert K. and James Young, Information Systems: Management Principles in Action, New York, NY: John Wiley and Sons, (1990).