

87/88-17

TO: Earl Roberts, Chairman
College of Business Curriculum Committee

FROM: John C. Shepherd, Chairman
Finance/MIS Department Curriculum Committee

DATE: November 24, 1986

Earl, please have the College of Business curriculum committee vote to approve (or disapprove!) the attached course description. A letter is being drafted to send to Computer Science informing them about the course. Please respond to me when you've discussed this matter.

cc: Kenneth L. Schildt

INDIANA UNIVERSITY OF PENNSYLVANIA
SENATE CURRICULUM COMMITTEE B-2

NEW COURSE PROPOSAL

Department: Finance/MIS

Person to Contact for Further Information: Dr. John Shepherd, ext. 4631

Course Affected: FS 372 Advanced Microcomputing Applications

Desired Effective Semester for Change: Fall 1987

Approvals:

Department Undergraduate Committee Chairperson

John C. Shepherd

Department Chairperson

Kenneth L. Sweet

College of Business Undergraduate Committee Chairperson

W. E. Roberts for 87-88
HARRY

College Dean

C. H. [Signature]

A. DESCRIPTION AND ACADEMIC NEED

- A1. Catalog Description (attached)
- A2. Course Syllabus (attached)
- A3. Need Fulfilled

Since 90% or more of large businesses use microcomputers, the College of Business must address this need. It is a natural progression for MIS students who will already have several main-frame-oriented courses. MIS

A7. Is this a dual level course?

The course is not to be dual listed.

A8. Do other universities offer this course?

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

The DPMA (Data Processing Management Association) suggests such a course in their model curriculum.

B. INTERDISCIPLINARY IMPLICATIONS

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

D. IMPLEMENTATION

D1. What resources are needed to teach this course?

The course can be taught using existing faculty, but will require the

Business and the Computer Science Department

One or two sections would be offered each semester.

D3. How often will the course be offered?

The course would be offered Fall, Spring, and Summer.

D4. How many students will be accomodated?

Enrollment should be limited to 20 students per section

INDIANA UNIVERSITY OF PENNSYLVANIA
SENATE CURRICULUM COMMITTEE B-2

COURSE SYLLABUS

Course Syllabus: FS 372, Advanced Microcomputing Applications

Date Submitted:

Submitted by: Dr. John C. Shepherd

Department: Finance/MIS

I. Course Identification

FS 372: Advanced Microcomputing Applications: 3 credits.

The primary objective is to show how microcomputers are being integrated into a main-frame business environment. Specific emphasis will include:

1. A review of microcomputer hardware
2. Microcomputer operating systems
3. Data communications
4. Word processing
5. Spreadsheet programming
6. Relational data base manipulation
7. Graphics
8. Integrated software

IV. Course Outline:

Approximate

C. File Concepts

2 - 3

1. File types
2. Viewing the directory

3. Copying files
4. Dumping files in ASCII

6. Setting up and using sub-directories

D. Data Communications

2 - 3

1. Asynchronous, Synchronous
2. Downloading data from mainframes

E. Word Processing

6 - 10

1. Intro, moving the cursor, entering text, deleting text
2. Modifying text: insert and delete
3. Creating table of contents and creating an index

F. Spread Sheet programming

12 - 14

1. Intro, moving cursor, entering titles, entering/editing data
2. Computations
3. Logic
4. Printing
5. Interfacing with word processor
6. Macros
7. Graphics
8. Database capabilities
9. Business Applications

G. Relational Data Base Programming

15 - 18

1. Intro, creating a data base, using a data base
2. Screen generation
3. Report generation
4. Data manipulation
5. Programming/procedures
6. Interfacing with other languages

INDIANA UNIVERSITY OF PENNSYLVANIA
~~GENERAL CATALOG~~

CATALOG DESCRIPTION

FS 372 Advanced Microcomputing Applications

Prerequisites: FS 350, CO 220, AG 201, or by permission

This course demonstrates how to utilize the microcomputer in business and how to provide technical assistance to users. Emphasis will be placed on

integrating software and interfacing with a main-frame computer. Topics will

include hardware, operating systems, data communications, word processing,

spreadsheets and database systems.