

LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		02-804	App 4/15/03	App 4/29/03

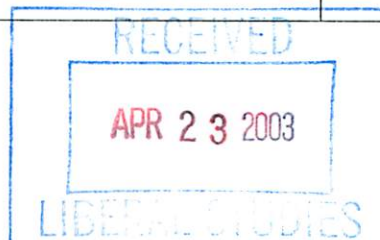
Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

Contact Person Kustim Wibowo	Email Address kwibowo@iup.edu
Proposing Department/Unit MIS and Decision Sciences	Phone 357-2931

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. Course Proposals (check all that apply) ☒ New Course ☐ Course Prefix Change ☐ Course Deletion ☐ Course Revision ☐ Course Number and/or Title Change ☐ Catalog Description Change		
IFMG 475 Project Management and Implementation		
<u>Current Course prefix, number and full title</u>		<u>Proposed course prefix, number and full title, if changing</u>
2. Additional Course Designations: check if appropriate ☐ This course is also proposed as a Liberal Studies Course. ☐ Other: (e.g., Women's Studies, Pan-African) ☐ This course is also proposed as an Honors College Course.		
3. Program Proposals ☐ New Degree Program ☐ Program Title Change ☐ Program Revision ☐ New Minor Program ☐ New Track		
<u>Current program name</u>		<u>Proposed program name, if changing</u>
4. Approvals		
Department Curriculum Committee	<i>[Signature]</i>	4/8/03
Chair(s)	<i>Elizabeth M. Purie</i>	4/8/03
Department Chair(s)	<i>Louise B. Berkey</i>	4/8/03
College Curriculum Committee Chair	<i>[Signature]</i>	9 Apr 03
College Dean	<i>A. Long</i>	4/9/03
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	<i>Gail S. Schust</i>	4/15/03

* where applicable



Syllabus of Record

I. Catalog Description.

IFMG 475 Project Management and Implementation

3 class hours

0 lab hours

Prerequisite: IFMG 460

3 credit hours

(3c-0l-3cr)

Introduces the student to demands made on the project manager and the nature of the manager's interaction with the rest of the parent organization in development of a Business Information System. The students will study the difficult problems associated with conducting a project using people and organizations that represent different cultures, politics, and may be separated by considerable distances. The course will also cover how to implement and carry out the development of the project using several Information Systems development methodologies.

II. Course Objectives.

Students will be able to:

1. Obtain the knowledge of project management and how project management relates to other disciplines.
2. Understand the fundamental project management contexts and processes.
3. Become acquainted with the proper procedures to address several aspects of project management such as: project integration management, project scope management, project time management, project quality management, project human management, and project risk management.
4. Design and implement project development using leading Information System methodologies.
5. Run and maintain the Information System project during its production life time.

III. Detailed Course Outline.

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|----|--------------------------------------|-----------|
| 1. | The Nature of Projects | (3 hours) |
| 2. | Project Initiation | (3 hours) |
| 3. | The Work, The Product, The Resources | (3 hours) |
| 4. | The Project Lifecycle | (4 hours) |
| 5. | Midterm I and Evaluation Testing | (2 hours) |
| 6. | Estimating and Project Design | (4 hours) |
| 7. | Planning Techniques | (3 hours) |
| 8. | Project Management Tools | (3 hours) |
| 9. | Midterm II and Evaluation Testing | (2 hours) |

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|-----|---|-----------|
| 10. | Project Execution, Measurement, and Reporting | (3 hours) |
| 11. | Change, Configuration, and Documentation Management | (2 hours) |
| 12. | Communication and Managing People | (2 hours) |
| 13. | Implementation and Multiple Project Coordination | (2 hours) |
| 14. | Subcontractors and Program Management | (6 hours) |
| 15. | Final Examination | (2 hours) |

IV. Evaluation Methods.

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|----|-----|---|
| 1. | 20% | Homework assignments, class-work, and quizzes. These will be based on materials discussed in class. |
| 2. | 40% | Information Technology projects. Instructor will find the suitable projects from industry or academia to be implemented in the course. The projects will incorporate programming, operating-systems, networking, telecommunication, databases, and decision-making knowledge. |
| 3. | 40% | Examination. The examinations consist of what-if questions, short-essays, analysis, and explanations. Three exams (10%, 10%, and 20%) will be administered during the semester. |

Grading Scale: A: $\geq 90\%$ B: 80-89% C: 70-79% D: 60-69% F: $< 60\%$

V. Course Attendance Policy.

In accordance with University policy, individual faculty will denote an attendance policy on specific course syllabi

VI. Required Textbook(s), Supplemental Books and Readings.

1. McLeod and Smith, Managing Information Technology Projects, Boyd & Fraser Publishing Company.
2. Shwalbe, Information Technology (IT) Project Management, 2nd Edition. Course Technology.
3. Phillips, IT Project Management: On Track from Start to Finish, McGraw-Hill Osborne Media.

VII. Special Resource Requirements.

No special resource requirements.

VIII. Bibliography.

1. Kersner, Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 7th Edition, Wiley Publishing, 2001.
2. Meredith & Mantel, Project Management: A Managerial Approach, 5th Edition, Wiley Publishing, 2003.
3. Walford, Business Process Implementation for Its Professionals and Managers, Artech House Publisher, 1999.

COURSE ANALYSIS QUESTIONNAIRE

Section A: Details of the Course

- A1 How does this course fit into the programs of the department? For what students is the course designed? (majors, students in other majors, liberal studies). Explain why this content cannot be incorporated into an existing course.

This course will replace IFMG 470 Systems Design. This course is required for students majoring in MIS. Other students in the Eberly College of Business and IT may take this course as an elective.

- A2 Does this course require changes in the content of existing courses or requirements for a program? If catalog descriptions of other courses or department programs must be changed as a result of the adoption of this course, please submit as separate proposals all other changes in courses and/or program requirements.

Separate proposals of courses and program are submitted in conjunction with this course proposal.

- A3 Has this course ever been offered at IUP on a trial basis (e.g. as a special topic)? If so, explain the details of the offering (semester/year and number of students).

This course has never been offered as a special topic.

- A4 Is this course to be a dual-level course? If so, please note that the graduate approval occurs after the undergraduate.

This course is not intended to be dual level.

- A5 If this course may be taken for variable credit, what criteria will be used to relate the credits to the learning experience of each student? Who will make this determination and by what procedures?

This course is not intended to be taken for variable credit.

- A6 Do other higher education institutions currently offer this course? If so, please list examples (institution, course title).

A number of institutions offer similar back-end office programming for MIS students. For example:

University of Texas, Austin: MIS 374. Business System Development.

Provides background in business system analysis, evaluations, design, and implementation, using basic business knowledge and computer skills. Offered on the letter-grade basis only. Prerequisite: Management Information Systems 333K and credit or registration for Management Information Systems 373.

University of Texas, Austin: MIS 373. Topics in Management Information Systems.

Provides in-depth treatment of business data processing concerns such as database management, telecommunications, and development of commercial systems. May be repeated for credit when the topics vary. Offered on the letter-grade basis only. Topic 6: Advanced Application of Software Development. Prerequisite: Management Information Systems 333K and consent of instructor.

University of Connecticut: OPIM 223. Advanced Business Application Development. Three credits. Prerequisite: OPIM 203C, 220, 221, and OPIM 222. Open to MIS majors only. Open only to juniors and seniors. Course designed to cover structured and object-oriented programming methodologies for developing business applications. Program design techniques and logic emphasized. Students participate in a business application design and implementation project.

- A7 Is the content, or are the skills, of the proposed course recommended or required by a professional society, accrediting authority, law or other external agency? If so, please provide documentation.

The Association for Computing Machinery (ACM), the Association for Information Systems (AIS) and the Association for Information Technology Professionals (AITP) all recommend this course.

Section B: Interdisciplinary Implications

- B1 Will this course be taught by instructors from more than one department? If so, explain the teaching plan, its rationale, and how the team will adhere to the syllabus of record.

The course is designed to be taught by one MIS instructor per semester.

- B2 What is the relationship between the content of this course and the content of courses offered by other departments? Summarize your discussions (with other departments) concerning the proposed changes and indicate how any conflicts have been resolved. Please attach relevant memoranda from these departments that clarify their attitudes toward the proposed change(s).

This course does not overlap with any other courses at this university. Although other departments may offer courses with similar topics, this course is specifically designed for the needs, interests, and context required for our MIS majors. This course already exists. The update of the syllabus of record is mostly an updating of the tools and methods used to implement the content of the course. The basic nature and purpose of this course has not been changed.

- B3 Will this course be cross-listed with other departments? If so, please summarize the department representatives' discussions concerning the course and indicate how consistency will be maintained across departments.

This course is proposed by the MIS-DS Department and will not be cross listed.

- B4 Will seats in this course be made available to students in the School of Continuing Education

Seats will be made available to Continuing Education students meeting the prerequisite.

Section C: Implementation

- C1 Are faculty resources adequate? If you are not requesting or have not been authorized to hire additional faculty, demonstrate how this course will fit into the schedule(s) of current faculty. What will be taught less frequently or in fewer sections to make this possible? Please specify how preparation and equated workload will be assigned for this course.

Faculty resources are adequate.

- C2 What other resources will be needed to teach this course and how adequate are the current resources? If not adequate, what plans exist for achieving adequacy? Reply in terms of the following:
- *Space The Eberly classrooms are adequate for this course.
 - *Equipment The Eberly computer labs are adequate for this course.
 - *Laboratory Supplies and other Consumable Goods The MIS-DS Department has enough software and computer supplies to support this course. However, the computer hardware and software will require periodic updates to meet the technological advancements and requirements.
 - *Library Materials The Stapleton Library has enough reading material for this course.
 - *Travel Funds No travel funds are needed.
- C3 Are any of the resources for this course funded by a grant? If so, what provisions have been made to continue support for this course once the grant has expired? (Attach letters of support from Dean, Provost, etc.)
- No resource for this course will be funded by a grant.
- C4 How frequently do you expect this course to be offered? Is this course particularly designed for or restricted to certain seasonal semesters?
- Once a semester.
- C5 How many sections of this course do you anticipate offering in any single semester?
- At least one section.
- C6 How many students do you plan to accommodate in a section of this course? What is the justification for this planned number of students?
- Approximately 30 students will be accommodated in a section of the course.
- C7 Does any professional society recommend enrollment limits or parameters for a course of this nature? If they do, please quote from the appropriate documents.
- No professional society recommends enrollment limits or parameters for this course.
- C8 If this course is a distance education course, see the Implementation of Distance Education Agreement and the Undergraduate Distance Education Review Form in Appendix D and respond to the questions listed.
- Presently, this course is not a distance education course.

Section D: Miscellaneous

Include any additional information valuable to those reviewing this new course proposal.

1. **Justification for the change.**
IFMG 475 is designed to replace IFMG 470 under the new streamlined 120 credit program. Due to the increase of topics and subject areas in the management information systems discipline, we have found it necessary to offer this course as a culmination

course that will require behavioral and technical knowledge of management information systems.

2. The syllabus for IFMG 470 is attached for reference.

**MIS & DECISION SCIENCES DEPARTMENT
SPRING, 2003
IFMG 470 SYSTEMS DESIGN**

Instructor: Dr. James Solak
Office: 207-A Eberly College of Business
Phone: 724-357-7780
E-mail: jsolak@iup.edu
Office Hours: 11:30 – 1:00 M-W-F and 7:30 – 8:00 W

Prerequisites: IFMG 451 Systems Analysis

Beginning with the Summer 2000 term, there will be absolute enforcement of every prerequisite requirement for the course-work offered by the Eberly College of Business & Information Technology. This means that students cannot postpone prerequisites and take them after the course in question.

The dean's office is responsible for monitoring course prerequisites. Students who manage to register for coursework in spite of the fact that they do not have the appropriate prerequisites will be subject to unilateral withdrawal after the course has commenced. At that time, no appeal will be accepted and adding a class after the official registration period will not be approved.

Beginning Spring Semester 2003, the university individual course withdrawal deadline date of Tuesday, March 25, 2003, will be enforced. A request for a deadline waiver must be sought through the Assistant Dean for Academic Services in Room 208. Requests will only be granted: 1) contingent upon documentation of catastrophic circumstances as stated in the IUP Undergraduate Catalog; and/or 2) through written feedback from the instructor noting advisement to the student to postpone withdrawing pending an additional test or assignment.

Course Description: Students learn tools and techniques for the design of a business system. Along with classroom discussion of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

Textbook: Systems Analysis and Design, 5th Edition, by Kendall and Kendall

Course Outline:

Chapter 15	Designing Effective Output
Chapter 16	Designing Effective Input
Chapter 17	Designing Databases
Chapter 18	Designing User Interfaces
Chapter 19	Designing Accurate Data-entry Procedures
Chapter 20	Quality Assurance Through Software Engineering
Chapter 21	Successfully Implementing the Information System
Chapter 22	Object-oriented Systems Analysis and Design and UML

GRADING PROCEDURES

The student's grade in Systems Design is based on the following:

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|---|---------|
| 1. Test 1 (evening exam) CH. 15-16 TEXT, and HANDOUTS | 50 PTS |
| 2. Test 2 (evening exam) CH. 17-19 TEXT, and HANDOUTS | 50 PTS |
| 3. Final exam - CH. 20-22 TEXT, and HANDOUTS | 50 PTS |
| 4. Group Project | 100 PTS |

Students will complete a team project composed of various parts. In completing these segments, individual students will be required to complete writing assignments which will not be graded separately. All written assignments, plus graphs, tables, charts, etc. will be combined to form one completed group project. All students in the team will receive the same grade provided each student completes his part of the project. Thus, in completing the project, the students will be responsible for writing assignments that are combined and graded as a whole.

- Classroom Participation - Student attendance is mandatory for each class period. Three absences are permitted. Each absence above three will result in a reduction of 3 points.
- Grading Scale: 90-100=A; 80-89=B; 70-79=C; 60-69=D; below 60=F
In order for the student to receive a grade for this course each student must take the midterm, final exam, and complete their part in the group project, including participation in the oral presentation of the group project. Otherwise, the student will receive an incomplete grade (I), and will be required to make up the work the next term that the course is offered.

Supplemental Readings (Optional):

Systems Analysis and Design, 4th Ed., Gary Shelly, Thomas Cashman, & Harry Rosenblatt. Course Technology, 2001.

Microsoft Visual Basic for Applications, Diane Zak, Course Technology, 2001.

Principles of Web Design, Joel Sklar, Course Technology, 2000.

Programming in Microsoft Visual Basic 6.0, Paul Thurrott. Prentice Hall, 2000.

An Introduction to Programming Using Visual Basic 6.0, 4th Ed., David Schneider. Prentice Hall, 1999.

Developing Applications with Microsoft, Visual Basic, Advanced Topics, Michael Ekedahl. Course Technology, 1999.

Systems Analysis and Design in a Changing World, 4th Ed. by Satzinger, Jackson, & Burd. Course Technology, 2000.