FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL

UUPC APPROVAL _____
SCNS SUBMITTAL _____
CONFIRMED _____
BANNER POSTED _____
CATALOG POSTED _____
WEB POSTED _____

DEPARTMENT NAME: INFORMATION TECHNOLOGY & OPERATIONS MANAGEMENT	COLLEGE OF: BUSINESS

RECOMMENDED COURSE IDENTIFICATION:	INSTRUCTIONAL METHOD (V, BB, IC, EC, ETC.):
PREFIX _ISM _____ COURSE NUMBER _____6133_____ LAB CODE (L or C) __ ___	BB
COMPLETE COURSE TITLE: ADVANCED SYSTEMS ANALYSIS AND DESIGN	
EFFECTIVE DATE (first term course will be offered): FALL 011	

CREDITS: 3	LAB/DISCUSSION:	TEXTBOOK INFORMATION:	SEE ATTACHED SAMPLE SYLLABUS
LECTURE: Y	FIELD WORK:		

GRADING: REGULAR ___X___ PASS/FAIL _____ SATISFACTORY/UNSATISFACTORY _____

COURSE DESCRIPTION, NO MORE THAN 3 LINES: The general aim of this course is to examine the design and application of systems in business for routine data processing, management reporting, and decision support at various levels within the organization.

PREREQUISITES: ISM 6212 or equivalent and graduate standing	COREQUISITES:	OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL):
O Check box to enforce*	O Check box to enforce*	O Check box to enforce*

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: TERMINAL DEGREE IN RELATED FIELDS
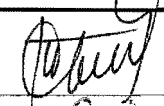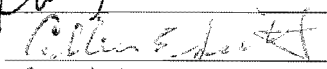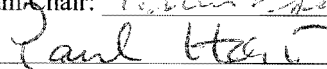
Other departments, colleges that might be affected by the new course must be consulted. List entities that have been consulted and attach written comments from each.

NONE

Faculty Contact, Email, Complete Phone Number
Dr. Pauline Chin, pchin@fau.edu, (954)236-1355

SIGNATURES

SUPPORTING MATERIALS

Approved by:	Date:
Department Chair: _____	3|23|11
College Curriculum Chair: _____	3-24-2011
College Dean: _____	3.28.11
UGPC Chair: _____	
Dean, Graduate Studies _____	

Syllabus—must include course objectives.

Written Consent—required from all departments affected.

Go to: *http://graduate.fau.edu/gpc/*
to download this form

* "Enforce" prerequisites or other registration controls adds these restrictions to the course schedule; students whose academic careers do not show these prerequisites or other details will not be able to register. When box is not checked, restrictions show in catalog description only.

Email this form and syllabus to Graduate Studies one week *before* the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

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ISM 6133 - ADVANCED SYSTEMS ANALYSIS & DESIGN

COURSE OVERVIEW

The general aim of this course is to examine the design and application of systems in business for routine data processing, management reporting, and decision support at various levels within the organization. The main focus of the course will be on the non-programming components of the systems development process. The tools and processes used by systems developers to analyze, design, manage and construct information systems will be presented. The course will take the format of lectures and discussions, as well as two oral presentations by students. One of the student presentations will consist of brief discussions on a current information technology topic chosen by the student. Each presentation should be no more than ten minutes and will be done at the beginning of the class session. The other presentation will be the group project presentation which should be no more than 30 minutes. Teamwork is heavily emphasized in the course. This allows the students to develop their interpersonal, conflict resolution and management skills in a simulated project environment. Lecture material can be downloaded from the class website on Blackboard.

LEARNING GOALS

Content Knowledge (Declarative, Technical, and Research). Students understand systems analysis and design concepts and are able to apply knowledge acquired in the course to a specific situation. Students will be introduced to the analytical and design methodologies as well as the skills necessary to become a successful systems analyst, practice and integrate database and software development concepts learnt. Students will practice their skills to research, analyze and design a working solution to the organizations problem utilizing appropriate systems analysis and design techniques.

Communication (Written, Oral, Team). Students will reinforce their writing skills by preparing and submitting a written comprehensive systems analysis and design project documentation package for a proposed computer-based system for an organization. Each project member will reinforce their oral skills by delivering in-class oral presentations on the design project and effectively communicating the organizations' problem(s) and the methodologies used to obtain solution(s). Students will reinforce their team communication skills by working in teams of 4 or 5 on a semester long project for a proposed computer-based system for an organization with a real world business problem.

Critical Thinking and Problem Solving. Students will reinforce proficiency in this area by fully and clearly identifying and defining the problem that the system is being designed to solve, identifying solutions relevant to the business problem reviewed. The solution demonstrates appropriate application of database, software development, and telecommunication concepts.

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REQUIRED TEXTBOOK

Essentials of Systems Analysis and Design, Fourth Edition, Valachich, George, Hoffer, 2008, Prentice Hall, ISBN: 18-978-0-13-608-496-0

PREREQUISITES FOR THIS COURSE

ISM 6212 (Database Management Systems)

GRADING

Exam 1	25%
Group Project Documentation	25%
Homework	5%
Project Evaluation	1%
Project Presentation (individual)	5%
Current I.S. Topic Presentation/ Graduate Case Analysis	7%
Attendance/Participation	3%
Online Quizzes	4%
Final Exam	25%
Total	100%

Grading Structure

A	= 93 – 100	C+	= 77 – 79
A-	= 90 - 92	C	= 73 - 76
B+	= 87 - 89	C-	= 70 - 72
B	= 83 - 86	D+	= 67 - 69
B-	= 80 - 82	D	= 63 - 66
		D-	= 60 - 62

GROUP/INDIVIDUAL ASSIGNMENTS/PROJECTS

Students in groups of 3 or 4 will conduct a systems analysis project consisting of studying and documenting a system in a real-world organization. Individual projects will not be allowed. Each TEAM must submit in writing team membership and two project preferences per group by August 30th, numbered one and two in order of preference. Team member evaluations will be conducted. A team may decide to dismiss a member from the group before the final course drop date for lack of participation or poor performance. This must be the consensus of all the other members of the group and must be communicated to the affected student and then to the

instructor in writing, followed by a meeting with all the members of the group. A formal written report is to be handed in by the stated due date and an oral presentation will be done on the stipulated date by each group. Each member of the group is expected to participate in the presentation. Each student is expected to attend all presentations. Oral presentations will be graded based on clarity, creativity and originality. Skits and humor are encouraged. Individual projects are not allowed. A late penalty of 15% will be assessed for any assignment turned in after the time it was due, up to and including the day following the due date. No assignments will be accepted beyond one week after the due date.

Current topic presentations will consist of brief discussions on a current information technology topic. Each presentation should be no more than fifteen minutes and will be done at the beginning of each meeting. You should inform as to what topic you plan to cover in advance.

Topics of interest includes:

1. Security
2. Financial integrity
3. Web services
4. Telecommunications
5. Artificial intelligence
6. CASE tools
7. Expert Systems
8. Database management system
9. Outsourcing
10. IT management
11. Terrorism/Disaster Planning
12. Customer Service
13. Enterprise application
14. Wireless technology
15. New uses of the Internet
16. Software for the Analyst

Your presentation will be graded based on:

1. How clearly you explain the topic
2. Depth of your discussion
3. interest generated
4. how you identify points that are of relevance to the systems analyst, CIO, IS consultant, etc
5. Answer questions regarding the topic

EXAMS

There are two exams in this course. Both exams will cover material from lectures, current topics discussed, case studies discussed in class as well as the assigned readings from the textbook. They will include multiple-choice, short answer and essay questions. No make-up exams and quizzes will be given. If exams and quizzes are missed for valid reasons such a

comprehensive final will be given. All assignments are due at the start of class on the scheduled due dates. Homework assignments will have the due dates stated on them.

INCOMPLETES

University policy states that an "I" may be given only if a student has a passing grade in the course. An incomplete is meant for students who are unable to complete the course due to severe hardships beyond their control. If an "I" is given, work must be completed within the time period specified by the instructor - a period not exceeding 12 months from the ending date of the course.

ATTENDANCE

Attendance will be taken. You are responsible for any and all information provided in class. This includes schedule changes as well as lecture and assignment materials.

Religious Accommodation Policy: http://www.fau.edu/academic/registrar/catalog/academics.php (Listed under the "Policies for all students" section)

ACADEMIC HONESTY & INAPPROPRIATE BEHAVIOR

Academic honesty includes, but is not limited to: plagiarism, cheating on examinations, unauthorized collaboration, multiple submission of work, misusing resources for teaching and learning, falsifying information, forgery, bribery, and any other acts that deceive others about one's academic work record. Cheating, plagiarism, and unauthorized collaboration are unacceptable for both in-class examinations and take-home assignments. Such offenses are subject to disciplinary action. Disciplinary actions may range from a zero on the assignment or exam, to an "F" in the course and a letter of fact in your student record, following the rules of the University and the College of Business.

Inappropriate behavior distracts other students and interferes with their learning experience. Inappropriate behavior may include arriving late, leaving early, talking, surfing the net, etc. Rude and inappropriate behavior will not be tolerated. Points will be deducted from the final grade of a student who chooses to repeatedly distract others. In particularly egregious cases, the student will be permanently removed from the class.

University policy states that cellular telephones, pagers, beepers and other personal communication devices must be disabled during class sessions.

Code of Academic Integrity:
http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf

STUDENTS WITH DISABILITIES

In compliance with the American Disabilities Act (ADA) students who require special accommodations due to a disability to properly execute coursework must register with the Office

for Students with Disabilities (OSD) located on any of the three campuses Boca or Davie and follow all OSD procedures.

ADA policy: http://www.fau.edu/cop/ada/ada_policy.php

GRADUATE STUDENTS:

Graduate students will be assigned Case studies and research articles as additional work.

Additional Readings: Cases & Journal Articles

James J Cappel (2002). "A system analysis and design case: ABC church". Journal of Information Systems Education, Vol. 12, Iss. 4; p. 233 – 244.

Kokolakis, S.A., Demopoulos, A.J. Kiountouzis, E.A. (2000). "The use of business process modelling in information systems security analysis and design". Information Management & Computer Security. Vol. 8, Iss. 3; p. 107.

Shen, Hui, Wall, Brian, Zaremba, Michal, Chen,Yuliu and Browne, Jim (2004). "Integration of business modelling methods for enterprise information system analysis and user requirements gathering",Computers in Industry Volume 54, Issue 3, August 2004, Pages 307-323.

Lindstrom, Lowell; Jeffries, Ron (2004, Summer), "Extreme programming and agile software development methodologies". Information Systems Management, Vol. 21 Issue 3, p. 41-52.

Sergio de Cesare, Chaitali Patel, Nicola Iacovelli, Antonio Merico and Mark Lycett (2008, Sept.), "Tailoring software development methodologies in practice: a case study. CIT Journal of Computing and Information Technology, Vol. 16.3, p. 157 (12).

Germain ,Éric, Robillard, Pierre N.(2005, February) "Engineering-based processes and agile methodologies for software development: a comparative case study", Journal of Systems and Software Volume 75, Issues 1-2, 15, Pages 17-27.

Wu, B; Looks, V; Kay, JM; Bennett, M (2000); "The design of business processes within manufacturing systems management." International Journal of Production Research, Vol: 38 Pages: 4097 – 4111.

Gonzalez, Reyes; Gasco, Jose and Lopis, Juan; (2006, October) "Information systems outsourcing: A literature analysis", Information & Management, Volume 43, Issue 7, Pages 821-834.

Chen, Injazz J.(2001), "Planning for ERP systems: analysis and future trend", Business Process Management Journal Vol: 7 Issue: 5 ISSN: 1463-7154 Date: 2001 Pages: 374 - 386

Madhusudan N. Rao, (2007) "Entrepreneurship, globalization, and information technology: A case study of Webject Systems, Inc.", International Journal of Emerging Markets, Vol. 2 Iss: 2, pp.181 – 197.

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Tentative Calendar

8/23 Introduction to the Course. Systems Project and Presentations	**8/30** The Systems Development Environment. (Chap 1).	**9/6** **Labor Day Holiday** **No Classes**
9/13 The Sources of Software (Chap. 2)	**9/20** **Quiz 1** Managing the Information Systems Project (Chap. 3)	**9/27** Systems Planning and Selection (Chap. 4)
10/4 Determining Systems Requirements (Chap. 5) **PHASE 1 DUE**	**10/11** **Quiz 2** Appendix B – Agile Methodologies Structuring Systems Requirements: Process Modeling (Chap. 6)	**10/18** **EXAM 1 (Chaps. 1-5 & Appendix B)**
10/25 Structuring Systems Requirements: Conceptual Data Modeling (Chap. 7)	**11/1** **Quiz 3** Designing the Human Interface (Chap. 8) **PHASE 2 DUE**	**11/8** Case Tools in Design Methodology
11/15 Designing Databases (Chap. 9)	**11/22** **Quiz 4** Systems Implementation and Operation (Chap. 10)	**11/29** **PHASE 3 DUE** **PROJECT PRESENTATIONS**
12/6 **Final Exam (Chaps. 6-10)**		

FAU
FLORIDA ATLANTIC UNIVERSITY

Information Technology & Operations Management Department
College of Business
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MEMORANDUM

TO: College of Business Graduate Council

FROM: Tamara Dinev, Associate Professor and Acting Department Chair

RE: Creation of Foundation Courses for the MSITM program

DATE: March 23, 2011

A major obstacle for the MSITM (Master of Science in Information Technology and Management) students turns out to be taking the MIS undergraduate deficiency courses. Since students come from various educational and professional backgrounds, they may have a need, evaluated on per-student basis, to complete one or more of our undergraduate courses before enrolling or continuing with their MSITM course flow.

There are many obstacles for them to do that, including not being able to register for the undergraduate courses on time since they have to register as non-degree seeking students, as well as a general confusion of them discovering that they have to do something additional that has not been pointed in the MSITM flow chart. Also, as it currently stands, they cannot be admitted to the program before they take these courses.

Per the recommendation of the Graduate office, ITOM has voted to propose a solution adopted by the other departments' graduate programs. The solution is to create a group of FOUNDATION COURSES that are level 6 but are identical to the undergraduate courses as follows:

ISM 4212 - > ISM 6212
ISM 4220 - > ISM 6220
ISM 3230 - > ISM 6230
ISM 4133 - > ISM 6133

The syllabi are identical to the undergraduate corresponding classes, and the students will be in the same classroom as the undergraduate ones. The Foundation courses cannot be taken for a credit, and the passing grade for each is C. These courses are in addition to the 30 credits required for the MSITM degree. Foundation courses may be waived if equivalent courses (will be shown in parentheses) have been taken at the undergraduate level. The great advantage is that since these foundation courses will become part of the MSITM flowchart, the students will be able to take them when they are admitted in the program, not before as it is now.