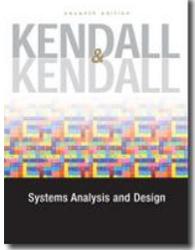


**University of Puerto Rico
Mayagüez Campus**

College of Business Administration

**SICI 4085 – 2008-2009 First Semester
Prof. Wanda Negrón**

A. Course Information	
General Information:	
Course Code: SICI 4085	
Course Title: Information Systems Analysis Methods	
Credit-Hours: 3	
Academic Term: 2008-2009 First Semester	
Course Description:	
Study of the System Development Life Cycle. The student will learn how to investigate and determine the process and data flow in an information system. Discussion includes data collection, information gathering and reporting activities.	
Pre/Co-requisites:	
SICI 3051 – Program Development I	
Textbook:	
	Kendall, Kenneth & Kendall, Julie. (2008) <u>Systems Analysis and Design.</u> Upper Saddle River, New Jersey, Seventh Edition, Prentice-Hall Pub. Co. ISBN: 0-13-615405-0 ISBN-13 978-0-13-615405-1
Course General Learning Goals:	
After completing the course, the student should be able to: <ul style="list-style-type: none">❖ Clearly mention and explain all the phases in the Systems Development Life Cycle.❖ Execute the SDLC phases pertaining to systems analysis, such as data gathering, systems proposal and alternatives, and system specifications.❖ Prepare Context Diagrams.❖ Prepare Data Flow Diagrams for Current and Proposed Systems.	
Content Outline and Time Distribution	
See Appendix B	
Department/Campus Policies:	
Class attendance: Class attendance is compulsory. The University of Puerto Rico, Mayagüez Campus, reserves the right to deal at any time with individual cases of non-attendance. Professors are expected to record the absences of their students. Frequent absences affect the final grade, and may even result in total loss of credits. Arranging to make up work missed because of legitimate class absence is the student's responsibility. (See Undergraduate Studies Information Bulletin, pp. 55 2003-04.)	
Absence from examinations: Students are required to attend all examinations. Student who are absent from an examination for a justifiable reason acceptable to the professor, will be given a make-up exam. If the exam is not taken, the student will receive an F on the missed examination. (See Undergraduate Studies Information Bulletin, pp. 56, 2003-04.)	
Final examinations: Final written examinations must be given in all courses unless, in the judgment of the Dean, the nature of the subject makes it impracticable. The professor evaluates the final examination choosing the method deemed most appropriate and renders an evaluation providing sufficient objective evidence for the grade awarded. If necessary, final examinations scheduled by special arrangements must be given during the examination period prescribed in the Academic Calendar, including Saturdays and Sundays. Change in the date assigned for a final exam may only be effected with the written authorization of the respective Dean and Registrar. (See Undergraduate Studies Information Bulletin, pp. 56, 2003-04.)	
Partial withdrawals: A student may withdraw from a course before the deadline established in the university academic calendar. Partial withdrawal will not be permitted after the established deadline. Federal regulations require that the course professor specify the last day of attendance to class and sign the withdrawal form. After a student completes the established procedure and submits the completed official request to the Office of the	

Registrar. The Registrar will post a “W” (withdrawal) for the particular course or courses on the student’s permanent record.. (See Undergraduate Studies Information Bulletin, pp. 53, 2003-04.)

Complete withdrawals: A student may completely withdraw from UPRM, at any time up to the last day of classes by obtaining written permission from the respective college. After the student completes and submits an official request, the Registrar will post a “W” in every course in the student’s academic program for that semester and will record the official date of withdrawal. Federal regulations require faculty to specify the last day of attendance in each course. (See Undergraduate Studies Information Bulletin, pp. 53, 2003-04.)

Disabilities: After introducing and identifying himself/herself to the instructor and the institution as a student with a disability, the student will receive reasonable accommodations in his/her courses and evaluations. For additional information, contact Services to Students with Disabilities at the Office of the Dean of Students (Q-019), 787-265-3862 or 787-832-4040, Ext. 3250 or 3258.

Ethics: Any academic fraud is subject to the disciplinary sanctions described in Articles 14 and 16 of the revised General Student Bylaws of the University of Puerto Rico contained in Certification 018-1997-98 of the Board of Trustees. The professor will follow the norms established in Articles 1-5 of the Bylaws.

B. Instructor Information	
General Information:	
Instructor:	Prof. Wanda I. Negrón
Office:	AE-323
Phone:	832-4040 ext. 5356
Office Hours:	MW 9:50 AM – 11:00 AM, W 12:50 PM – 2:00 PM, TuThu 8:00 – 8:30 AM & 9:45 AM – 10:30 AM
E-mail / URL:	prof.wnegron@gmail.com
Instructional Strategies:	
Lectures, and online presentations using Powerpoint. Practice exercises and discussion in class. Student activities include: reading, questions, problems and exercises for homework, online quizzes, independent study, class discussion, group and individual problem solving and cases, brainstorming, teamwork, questioning, and active listening.	
Minimum Required or Available Resources:	
Textbook, and access to the Internet to answer online quizzes or exams.	
<i>The student must bring the textbook to class.</i>	
Evaluation/Grade Reporting:	
80% 4 Exams and 1 Project 20% Quizzes, homework, class work, attendance Grading will be as follows: [A 100-90] [B 89-80] [C 79-70] [D 69-60] [F 59-0]	
Every homework should be prepared in duplicate – one to hand in at the beginning of class, one to keep and review as problems are discussed in class.	
Assessment of Learning:	
During the semester we will be using several techniques that will help us determine your level of learning. Our main purpose is to help students identify how much and how well he/she is learning and to detect areas that may need reinforcement before the final grade is determined. These techniques will also help the professor use more effective teaching strategies.	
Attendance, Behavior and Course Policies	
<ul style="list-style-type: none"> • The student is expected to come to every class on time. • The use of portable computers will not be allowed. The student does not need a computer to listen to the lecture or to do the class work. • Many exercises and problems will be developed in class, and they will all count towards class work. • Students missing a class need not present an excuse unless to request a make-up exam. • The student will obtain from a peer the material and handouts for the session missed. • The use of Cellular Phones in the classroom is prohibited. If a cell phone is brought into the classroom it must be in vibrate or silent mode. An interruption to the class will result in a penalty for the whole group in the next exam. • In case of a prolonged absence, the student must communicate as soon as possible to inform the professor of the situation that requires his/her absence. • Make-ups: <ul style="list-style-type: none"> ○ A student absent from an exam will receive 0 points (F) for that exam. ○ The professor decides whether a make-up exam will be given. ○ The student must request the makeup in writing up to 1 week after the exam missed. The request can be in the form of a letter or an e-mail. Supporting documents, such as a medical excuse, court citation or the like must also be included. ○ Make-ups will be given only for exams (not for homework or quizzes) and will be given on a specific date the professor will choose. ○ The make-up exam could be: 1) a different/more difficult exam or 2) the same exam with a 20% penalty. A grade of 60 or less in a makeup exam will not count and a 0 will remain. ○ ATHLETES who will miss class while <u>representing the University</u> in sports events must present a letter from the department BEFORE the event. Failure to do so could result in denial of a makeup request. ○ Make-up for the Final Exam must be requested on the day of the final examination 	

or beforehand, if possible.

- Attendance:
 - The students attending every class will receive points toward a full attendance grade that will be considered as a 100 points quiz.
 - Excuses for missed classes will be accepted, but these do not grant the student attendance points for that day. Attendance points are given only to the students that actually attended class.

Class Itinerary

Chapter	Topic
	Introduction to the course
1	Assuming the role of the Systems Analyst
2	Understanding Organizational Style and its impact on Information Systems
3	Determining Feasibility and Managing Analysis and Design Activities
First Partial Exam Chapters 1-3	
4	Information Gathering: Interactive Methods
5	Information Gathering: Unobtrusive Methods
6	Agile Modeling and Prototyping
Second Partial Exam Chapters 4-6	
7	Using Data Flow Diagrams
8	Analyzing systems using Data Dictionaries
9	Describing Process Specifications and Structured Decisions
Third Partial Exam Chapters 7-9	
10	Preparing the System Proposal
Final Exam Chapter 10	

Bibliography

Dennis, Alan, Wixom, Barbara Haley, & Tegarden, David (2005).
Systems Analysis and Design with UML version 2.0
Hoboken NJ, Second Edition, John Wiley & Sons.
ISBN: 0471348066

Whitten, Jeffrey L. & Bentley, Lonnie D. (2004).
Systems Analysis and Design Methods.
Boston, MA, Sixth Edition, Irwin McGraw-Hill.
ISBN: 0072474173

Satzinger, John W., Jackson, Robert & Burd, Stephen D. (2004).
Systems Analysis and Design in a Changing World.
Boston, MA, Sixth Edition, Irwin McGraw-Hill.
ISBN: 0619213256

Shelly, Gary B, Cashman, Thomas J. & Rosenblatt, Harry J. (2003).
Systems Analysis and Design.
Cambridge, MA, Third Edition, Course Technology – International Thompson.
ISBN: 0789566494

Additional Internet References:

Textbook Web Site http://wps.prenhall.com/bp_kendall_sad_6/0,9729,1636069-,00.html
Dennis, Wixom & Tegarden Textbook Web Site

http://jws-edcv.wiley.com/college/bcs/redesign/student/0,,_0471348066_BKS_2027____,00.html
Chapter on Analysis and Design

<http://www.scsite.com/dc2005/index.cfm?action=review&chapter=12>

Systems Analysis Web Sites http://www.umsl.edu/~sauter/analysis/analysis_links.html