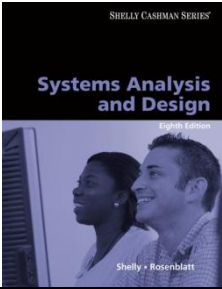


**University of Puerto Rico  
Mayagüez Campus**

**College of Business Administration**

**SICI 4085 – 2012-2013 First Semester  
Prof. Wanda Negrón**

A. Course Information	
<b>General Information:</b>	
Course Code: SICI 4085 Course Title: Information Systems Analysis Methods Credit-Hours: 3 Academic Term: 2012-2013 First Semester	
<b>Course Description:</b>	
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.	
<b>Pre/Co-requisites:</b>	
SICI 3051 – Program Development I	
<b>Textbook:</b>	
	Shelly, Gary B. & Rosenblatt, Harry J. (2010) <u>Systems Analysis and Design 8<sup>th</sup> edition.</u> Boston, MA Course Technology ISBN-13 978-0-324-59766-0
<b>Course General Learning Goals:</b>	
After completing the course, the student should be able to: <ul style="list-style-type: none"><li>❖ Clearly mention and explain all the phases in the Systems Development Life Cycle.</li><li>❖ Execute the SDLC phases pertaining to systems analysis, such as data gathering, systems proposal and alternatives, and system specifications.</li><li>❖ Prepare Context Diagrams.</li><li>❖ Prepare Data Flow Diagrams for Current and Proposed Systems.</li></ul>	
<b>Content Outline and Time Distribution</b> See Appendix B	
<b>Department/Campus Policies:</b>	
<b>Class attendance:</b> 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.) <b>Absence from examinations:</b> 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.) <b>Final examinations:</b> 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.) <b>Partial withdrawals:</b> 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	
<b>General Information:</b>	
Instructor:	Prof. Wanda I. Negrón
Office:	AE-323
Phone:	832-4040 ext. 5352, 5353, 5356
Office Hours:	TuThu 9:45-12:00m, 1:30-2:15PM
E-mail / URL:	wandai.negron@upr.edu
<b>Instructional Strategies:</b>	
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.	
<b>Minimum Required or Available Resources:</b>	
Textbook, and access to the Internet to answer online quizzes or exams. <i><b>The student must bring the textbook to class.</b></i>	
<b>Evaluation/Grade Reporting:</b>	
80% 4 Exams, 1 Attendance grade, 1 Project 20% Quizzes, homework, class work Grading will be as follows: [A 100-90] [B 89-80] [C 79-70] [D 69-60] [F 59-0]  Homework is due at the beginning of the class upon roll call. Quizzes will be given at the beginning of the class. A tardy student forfeits the opportunity to: hand in homework, and/or take the quiz. A student arriving late to an exam will not be granted extra time to complete it.	
<b>Assessment of Learning:</b>	
During the semester we will be using several techniques that will help us determine your level of learning. The 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.	
<b>Attendance, Behavior and Course Policies</b>	
<ul style="list-style-type: none"> <li>The student is expected to come to every class on time and to bring the book to class when the professor requests it.</li> <li>Many exercises and problems will be developed in class, and they will all count towards the class work grade.</li> <li>Students missing a class need not present an excuse unless to request a make-up exam.</li> <li>The student will obtain from a peer the material and handouts for the session missed.</li> <li>In case of a prolonged absence, the student must inform the professor as soon as possible of the situation that requires his/her absence.</li> <li>The use of <b>portable computers</b> will not be allowed. The student does not need a computer to listen to the lecture or to do the class work.</li> <li>The use of <b>Cellular Phones</b> in the classroom is prohibited, both to talk and for texting. <ul style="list-style-type: none"> <li>Cell phones should be kept in a book bag or pocket, not on the desk.</li> <li>Cell phones must be in silent mode. An interruption to the class due to the use of a cell phone, be it to talk or to text, will result in a penalty for the whole group in the next exam.</li> </ul> </li> <li>Make-ups: <ul style="list-style-type: none"> <li>A student absent from an exam will receive 0 points (F) for that exam.</li> <li><b>The professor decides</b> whether the student will be given the opportunity to take a make-up exam.</li> <li>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.</li> <li>Make-ups will be given <b>only for exams</b> (not for homework, class work, attendance or quizzes) and will be given on a specific date the professor will choose.</li> <li>The make-up exam could be: 1) a different/more difficult exam or 2) the same exam with a <b>20%</b> penalty. A grade lower than 60% in a makeup exam will not count and a 0 will remain.</li> </ul> </li> </ul>	

- ATHLETES who will miss class while representing the University 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	Introduction to Systems Analysis and Design
2	Analyzing the Business Case
3	Managing Systems Projects
	<b>First Partial Exam Chapters 1-3</b>
4	Requirements Modeling
5	Data and Process Modeling
	<b>Second Partial Exam Chapters 4-5</b>
6	Object Modeling
7	Development Strategies
	<b>Third Partial Exam Chapters 6-7</b>
	<b>Final Exam Chapter 10</b>

**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](http://wps.prenhall.com/bp_kendall_sad_6/0,9729,1636069-,00.html)  
 Dennis, Wixom & Tegarden Textbook Web Site  
[http://jwsedcv.wiley.com/college/bcs/redesign/student/0,,\\_0471348066\\_BKS\\_2027\\_\\_\\_\\_,00.html](http://jwsedcv.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](http://www.umsl.edu/~sauter/analysis/analysis_links.html)