Advanced Systems Analysis and Design
Course Syllabus

Course No:	BA 352	**Instructor:**	Prof. Leonid Romanyuk
Semester:	Fall 2012	**Phone:**	(510) 628-8024
Units:	3 units (= 45 lecture hours)	**E-mail:**	lromanyuk@lincolnuca.edu
Class hours:	Monday 12:30 pm – 3:15 pm	**Office Hours:**	Monday, Wednesday 11:50 am -12:25 pm
Class Room:	TBA	**Office Room:**	402

COURSE DESCRIPTION:

Analysis of real world information systems. Included are requirements analysis, data flow diagrams, data dictionaries, systems proposals and design. (3 units) Prerequisite: BA 260 or BA 350

REQUIRED MATERIALS:

TEXTBOOK:	**Modern Systems Analysis and Design,** 6th Edition, by Jeffrey Hoffer, Joey George, Joseph Valacich, Prentice Hall, 2011, ISBN: 013608821X
REQUIRED TOOLS:	Microsoft Office 2003, 2007, or 2010 and the Internet resources. Scientific or graphing calculator
OPTIONAL:	Publisher's Web resources at http://www.prenhall.com/hoffer/

LEARNING OBJECTIVES:

To introduce students from a business, rather than a technology, perspective to the concepts, skills, methodologies, techniques, tools, and perspectives essential to successfully develop information systems. The students will learn about the systems development environment and the origins of software, learn the skills for managing the information systems project, identifying, selecting, initiating, and planning systems development projects, determining system requirements, structuring system process, logic, and data requirements. The students will learn how to design databases, forms, reports, interfaces, dialogues, and finalize design specifications, how to design distributed and the Internet systems, and how to implement and maintain information systems.

INSTRUCTIONAL METHODS:

Lecture method is used in combination with the practical use of the Internet and system development software tools to solve analysis and design problems. The emphasis will be on learning by doing. Every student must participate in an intensive classroom activity. Reading, writing, "business case study", and project assignments will be made throughout the course.

OTHER REQUIREMENTS:

All students are required to attend the class. Continuous assessment is emphasized. Written or oral quizzes will be given every week. Students must complete all assignments and take all quizzes, mid-term exam and final exam ON THE DATES DUE. Talking in class, using cell phones, coming late, leaving the room at times other than at break time is not allowed. Plagiarism/cheating will result in the grade "F" and a report to the administration.

TESTING:

Classroom activities	every week	10%
Quizzes	every week	10%
Assignments	every week	10%
Mid-term exam	as scheduled	30%
Final exam	as scheduled	40%

There will be no make-up for a missed quiz or participation in a classroom activity. No make-up exams will be given unless you have the instructor's <u>prior</u> approval obtained in person <u>before</u> the exam date, with the exception of an extreme emergency. Late assignments will get no credit or reduced credit. *Students will not be allowed to use computers or cellular phones during tests.*

GRADING:

Less than 50% total is an "F"; 75% total is "C+". Other grades will be calculated "on the curve" from the scores above.

COURSE SCHEDULE:

Daily schedule of topics is attached. Students should read every chapter of the textbook on the topic to be discussed in class before they come to class. Be ready to answer in writing all review questions and to solve problems at the end of the chapter.

ASSIGNMENTS:

Each assignment is due on the Monday of the next week after it is assigned. Additional assignments based on the Internet and library resources can be given during the semester. Take a folder or a notebook and create an Assignment Notebook. You will put in it the solutions and other results of all your assignments. The instructor can ask you to turn in this folder / notebook and grade your work at any time during the semester.

MODIFICATION OF THE SYLLABUS:

This syllabus was updated on July 25, 2012.   The instructor reserves the right to modify this syllabus at any time during the semester. An announcement of any changes will be made in the classroom.

FALL 2012 SCHEDULE OF TOPICS

PLEASE READ EVERY CHAPTER BEFORE YOU COME TO CLASS

Date	Topics	Chapters
8/20/12	The Systems Development Environment.	1
	The Origins of Software	2
8/27/12	Managing the Information Systems Project	3
9/03/12	Labor Day (Holiday)	
9/10/12	Identifying and Selecting Systems Development Projects.	4
	Initiating and Planning Systems Development Projects	5
9/17/12	Determining System Requirements	6
9/24/12	Structuring System Process Requirements	7
10/01/12	Structuring System Data Requirements	8
10/08/12	Review.	1 - 8
	MIDTERM EXAM	
10/15/12	Designing Databases	9
10/22/12	Designing Forms and Reports	10
10/29/12	Designing Interfaces and Dialogues	11
11/05/12	Designing Distributed and Internet Systems	12
11/12/12	Veterans Day (Holiday)	
11/19/12	System Implementation.	13
	Maintaining Information Systems	14
11/26/12	Review	1 - 14
12/03/12	**COMPREHENSIVE FINAL EXAM**	