Lincoln University

BA 262 – System Analysis and Design

COURSE SYLLABUS
Spring, 2018

Instructor:	
Lecture Schedule:	
Credits:	3 units / 45 lecture hours
Level:	Advanced (A)
Office Hours:	
e-mail:	
Textbooks:	Modern Systems Analysis and Design, 8/E
	by Joseph Valacich, Joey George. ISBN-13: 978-0134204925
	ISBN-10: 0134204921.
Last Revision:	January 3, 2018

COURSE DESCRIPTION
An examination of principles of system analysis design with emphasis on business applications; applications of the systems viewpoint of problem solving, identification of alternatives, and simulation; solving problems by using existing programs and student- designed programs.
(3 units)
Prerequisite: BA 160

EDUCATIONAL 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.

COURSE LEARNING OUTCOMES[1]

	Course LO	Program LO	Institutional LO	Assessment Activities
1	Develop an understanding of the business aspect of the information systems development	PLO 1	ILO 1a, ILO 2a, ILO 3a	Homework, midterm and final exams
2	Be able to determine system requirements, system process structure, logic, and data requirements of the information system	PLO 2	ILO 1a, ILO 6a	Case studies, homework
3	Be able to identify, select, plan, and initiate information system development projects in accordance with the business needs of an organization.	PLO 4	ILO 1a, ILO 2a, ILO 5a	Homework, midterm and final exams

INSTRUCTIONAL METHODS

This is a direct classroom instruction course.
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.

ASSIGNMENTS AND PROJECTS

Case studies, mini projects and other assignments will be given every week. Take a folder and create a Project Notebook. You will put in this folder printouts of the results of all your assignments and projects and storage media (CD disc / DVD disc / USB flash drive) with your work stored on it. The instructor can ask you to turn in this folder and grade your work at any time during the semester. Alternatively, you may upload this folder to your cloud storage of choice.

Assignments and projects require students to actively use resources of the library. Detailed guide to business *resources of the library* as well as the description of Lincoln University approach to *information literacy* are available at the Center for Teaching and Learning website (ctl.lincolnuca.edu).

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[1] Detailed description of learning outcomes and information about the assessment procedure are available at the Center for Teaching and Learning website (ctl.lincolnuca.edu).

GRADING

Proportions – The quality of a student's preparedness for class and the readiness to participate in and contribute toward such group experiences will form part of the student's final grade. Excessive absences, therefore, can only result in grade-diminution.

The rule of thumb on absences is that the maximum of allowable absences for this course shall not exceed <u>two.</u> These should be used prudently, given the level of participation expected in this course. Hence, they should cover the unexpected, such as: accidents, traffic jams, runny noses, dead grandmothers, promising encounters in the library, etc., etc.

Students are firmly advised that if one is registering late for the course and joins the class late, he or she is still responsible for the missed materials and their assignments and the missed class meetings will be counted as absences.

The student's final course grade will be determined as follows:

Classroom activities	every week	10%
Quizzes	every week	10%
Assignments and Projects	every week	30%
Mid-term exam	as scheduled	20%
Final exam	as scheduled	30%

Scoring – All results of tests will employ a numerical scoring system which is convertible as indicated below. Grades on cases and library research will be given letter grades within the same ranges, as below:

100-95	A		76-74	C
94-90	A-		73-70	C-
89-87	B+		69-67	D+
86-84	B		66-64	D
83-80	B-		63-60	D-
79-77	C+		59 or <	F

COURSE SCHEDULE

Week	Topic
1	The systems development environment. The origins of software.
2	Managing the information systems project
3	Identifying and selecting systems development projects
4	Initiating and planning systems development projects
5	Determining system requirements
6	Structuring systems process requirements
7	Structuring systems data requirement
8	Designing databases
9	**Midterm exam**
10	Designing forms and reports

11	Designing interfaces and dialogues
12	Designing distributed and internet systems
13	System implementation
14	Maintaining information systems
15	**Final Exam**