



Lincoln University

Course Title	Advanced Systems Analysis & Design	Instructor: Dr. Walter Kruz
Course No.	BA 352	Hours:By arrangement
Units	3 (45 lecture hours)	wrkruz@lincolnuca.edu
Class Hours	Tues 6:30PM – 9:15PM	
Semester	Fall 2016	

Textbook:

- Modern Systems Analysis and Design, Hoffer et al, Pearson 6th Edition, 2011, ISBN 13: 978-0-13-608821-9, ISBN 10 0-13-608821-X
- Various other resources from industry publications

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 (3 units). Prerequisite: BA 146, CS 10.

Learning Objectives:

By taking this course students will gain a basic understanding of the concepts, skills, methods, techniques, and tools to develop information systems.

Methodology:

This class offers a highly interactive learning environment. All students will participate in class discussions, research findings, and class exercises. Short oral presentations may also be assigned. Assignments will be given weekly and may consist of textbook exercises and research questions. Attendance is highly encouraged as exams include questions from class discussions. Students will benefit from using a laptop, the computer lab, and the school library.

Standards:

Standards for this class are similar to those found in professional organizations. Punctuality and deliverables are very important. All assignments are due on the date indicated and collected during the first 10 minutes of the class. Late assignments will not be collected or graded. Make-up exams are allowed only due to a documented medical excuse. Students are encouraged to study and work in groups for enhanced learning.

Project:

Project work, if assigned, is designed to familiarize students with issues of current information systems. Projects may be assigned individually or as a group project. If as a group, the grade is the same for all members. Drafts may be evaluated on an agreed upon schedule during the semester. Final deliverable will be turned in as a hard copy. Plagiarism is not allowed; all sources must be referenced. APA standard is recommended.

Testing:

Typically, the class will consist of two or three exams of equal weight throughout the semester. All exams are individual deliverables. They consist of short answers related to the material being discussed. The exam format is closed book with no electronic devices allowed. Failure to follow instructions during exams will result in 0 points earned for that exam.

Grading:

Quizzes, homework assignments, exams, and the project allow a student to accumulate points throughout the semester. These total earned points are added and compared against the total possible as a percentage.

Exams and Project are typically worth 100 pts each (~ 75% of the total points). Homework and quizzes from 5-10 pts (~ 25% of the total points). Assuming that 2 exams, one project, and 10 homework/quiz assignments are given, this will mean a total possible of 400 points could be accumulated. The student grade will be calculated as follows:

$$\text{Grade} = (\text{Student's score} / \text{Total possible points}) * 100 = \%$$

A final grade is then assigned as follows:

95 – 100%	A
90 – 94%	A-
87 – 89%	B+
84 – 86%	B
80 – 83%	B-
76 – 79%	C+
70 – 75%	C
66 – 69%	C-
60 – 65%	D
Less than 59%	F

Classroom Protocol:

Students are expected to arrive on time and be prepared to participate. Laptop use is allowed only for a class purpose. No cell phones allowed.

Schedule:

This is a proposed schedule. It will change according to class progress or student interests.

Session	Chapter to be discussed	Assignments/Homework
Session 1	Chapter 1 –Business driven MIS	Write short research paper.#1 “Best business model”
Session 2	Chapter 2 – Value driven business	Turn in research paper
Session 3	Chapter 3 – E business 1	Write research paper #2

		"Why EBay successful"
Session 4	Chapter 3 – E Business 2	Turn in research paper
Session 5	Review	Exam #1
Session 6	Chapter 4 – Ethics and security	Write research paper #3 "Security vs privacy"
Session 7	Chapter 5 - Infrastructure	Turn in research paper
Session 8	Chapter 6 – Business intelligence	Write research paper #4 "Business value of BI"
Session 9	Review	Turn in Research paper Exam #2
Session 10	Chapter 7 – Mobile business	Write research paper #5 "Success factors of mobile business"
Session 11	Chapter 8 – Enterprise applications	Turn in research paper
Session 12	Chapter 9 – Systems development	Do Homework "SDLC"
Session 13	Special Lecture 1 – Basics of Big data	Do Homework " Big Data"
Session 14	Special Lecture 2 - Big data tools and architecture	Do Homework "Big data tools"
Session 15	Review	Exam #3

Faculty Information:

Academic: BA/BS Physics/Mathematics, MS Engineering, MBA, DBA.

Professional: Dr. Kruz is an industry consultant. His expertise includes senior management experience in operations, engineering, project management, and information systems. He participates in international projects focusing on systems integration. His research area includes competitiveness, innovation, and business performance.

Update:

July 20, 2016