Lincoln University

BA 352
Advanced System Analysis and Design

COURSE SYLLABUS

Spring 2018

Instructor:	Prof. Sergey Aityan
Lecture Schedule:	Monday, 12:30 PM – 3:15 PM
Credits:	3 units
Level:	Mastery 1 (M1)
Office Hours:	Monday 11:15 AM – 12:15 PM

Students are advised to schedule appointments by signing their names on the appointment list which is located on the information board next to the professor's office that will ensure exact appointment time without waiting.

Additional office hours by appointment

e-mail: aityan@lincolnuca.edu

☎**:** (510) 628-8016

Assistant to the Instructor:	TBD e-mail: TBD
Textbook:	**1. Textbook:**

Jeffrey A. Hoffer, Joey F. George, and Joseph S. Valacich, (2007), Modern System Analysis and Design, 5th Edition, Prentice Hall (ISBN: 978-0132240765)

*** Previous editions of this book are okay too ***

Last Revision: January 3, 2018

CATALOG 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

COURSE OBJECTIVES

To introduce business students to the concepts, required skills, methodologies, techniques, and tools essential for the successful development of information and other business software systems. Students will learn system development environment and software design origination process, how to identify, select, initiate, and plan software system development and integration projects, determine system requirements, structure system processes, develop system specifications, and user-machine interaction.

COURSE LEARNING OUTCOMES

	Course LO	Program LO	Institutional LO	Assessment
1	Students are expected to develop familiarity with the theoretical and practical side of Management Information Systems	PLO 1	ILO 1b, ILO 2b	Course project, quizzes, midterm/final exam
2	Students have to be able to identify a problem area and propose an information system to solve the problem.	PLO 2	ILO 1b, ILO 2b, ILO 4b	Course project
3	Students are expected to propose and work on initial specification of an information system	PLO 4	ILO 4b, ILO 5b, ILO 6b	Course project
4	Students are expected to work on a team to identify a problem area and propose a management information system to solve the problem.	PLO 5	ILO 4b, ILO 5b	Course project

PROCEDURES AND METHODOLOGY

Lecture method is used in combination with a supervised business case study. The emphasis will be on learning by doing. Every student must participate in an intensive classroom activity.
This is a direct classroom instruction course.

COURSE PROJECT

Every student must complete and submit a course project. The project includes high level design of a information, transaction or control system.

REQUIREMENTS

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. Plagiarism will result in the grade "F" and a report to the administration.

ATTENDANCE

Students are expected to attend each class session. If you cannot attend a class due to a valid reason, please notify the instructor prior to the class.

EXAMS

Both, midterm and final exams are structured as written essay to answer the given questions. Each exam includes six questions. The essay must be written clearly and easy to read, structurally with clear logical presentation of the answers. Graphs, charts, tables,

and other supporting illustrations are required if needed. Examples to illustrate the answers are required.

Exams will cover all assigned chapters, any additional readings or supplementary materials covered in class. The final exam is comprehensive, i.e. includes the whole course. The exams are neither "open book" nor "open notes."

Cheating in exam results in immediate termination of the exam, grade "F" with ZERO points, and report to the dean.

GRADING AND SCORING

All activities will be graded according to the points as shown below.

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
Points	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	60-66	0-59

In exams every answer is graded by points from 0 to 100 and the total points for an exam are calculated as the average of the points received for all answers in the exam.

The final grade for the course will be given as the total weighted score for all activities according to the percentage shown in the table below.

Activity	Time	Percent
Quizzes, home tasks, and classroom activities	Every week	20%
Course project		20%
Mid-term exam	In the middle of the course	30%
Final exam	Last week of the course	30%

If both grades for the midterm and final exams are "F" the term grade for the course is "F" regardless of the grades for the project and classroom activities.

COURSE SCHEDULE

Lectures #	Date	Topic	Chapters
1	22-Jan	The System Development Environment	Ch. 1
2	29-Jan	The Origins of Software	Ch. 2
3	5-Feb	Managing an Information System Project	Ch. 3
4	12-Feb	Identifying and Selecting Systems Development Projects	Ch. 4
	19-Feb	President's Day – No classes	
5	26-Feb	(a) Initiating and Planning Systems Development Projects	Ch. 5
		(b) Determining System Requirements	Ch. 6
6	5-Mar	Structuring System Process and Logic Requirements	Ch. 7
7	12-Mar	Structuring System Logic and Data Requirements	Ch. 8, 9
8	19-Mar	**Midterm Exam**	Ch. 1 - 9
9	26-Mar	Designing Databases	Ch. 10
10	2-Apr	Designing Forms and Reports	Ch. 11
11	9-Apr	Designing Interfaces and Dialogues	Ch. 12

12	16-Apr	(a) Finalizing Design Specifications	Ch. 13
		(b) Designing Distributed and Internet Systems	Ch. 14
13	23-Apr	(a) System Implementation	Ch. 15
		(b) Maintenance of Information Systems	Ch. 16
14	30-Apr	**Comprehensive Final Exam**	Ch. 1 – 16
15	7-May	Course Project Presentations	

CHEATING AND PLAGIARISM

Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit. Acts of cheating include, but are not limited to, the following:
(a) plagiarism;
(b) copying or attempting to copy from others during an examination or on an assignment;
(c) communicating test information with another person during an examination;
(d) allowing others to do an assignment or portion of an assignment;
(e) using a commercial term paper service.
Penalties for cheating and plagiarism range from a 0 or F on an assignment, through an F for the course, to expulsion from the university. Anyone caught cheating or plagiarizing will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Dean of Students, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action.

LETTERS OF RECOMMENDATION

Letters of recommendation will be provided upon request to students, who have completed all course requirements and received grade "A" for the course.

OTHER COMMENTS

- Please participate. What you put into the class will determine what you get out of it – and what others get out of it.
- Please come on time. Late arrivals disturb everyone else.
- If you miss a class, you are responsible for getting notes/slide printouts on the material covered from a classmate or the instructor.
- To avoid distracting noise in class, cellular phones must be turned off or the ringing mode silenced.
- Questions and comments during the class are welcome. Do not hesitate to ask questions – do not leave anything unclear for you.

MODIFICATION OF THE SYLLABUS.

The instructor reserves the right to modify this syllabus at any time during the semester. Announcements of any changes will be made in a classroom.

APPENDIX A. PROGRAM AND INSTITUTIONAL LEARNING OUTCOMES.

Institutional Learning Outcomes (ILOs)	
MBA Graduates of Lincoln University should be able to:	
1b	Recognize and be able to work with the components of reasoning and problem solving; understanding concepts, assumptions, purpose, conclusions, implications, consequences, objections from alternative viewpoints, and frame of reference.
2b	Gather and assess relevant information, using abstract ideas to interpret it effectively; being able to develop well-reasoned conclusions and solutions, and testing them against relevant criteria and standards
3b	Be exemplary business professionals and try to ensure that the products of their efforts will be used in socially responsible ways, will meet social needs, and will avoid harmful effects to health and welfare
4b	Lead by example in order to create highly collaborative organizational environment, and be able to develop and use strategies to encourage employees at all organizational levels to do the same.
5b	Set goals and have a vision of the future. The vision should be owned throughout the organization. As effective leaders, they should habitually pick priorities stemming from their basic values.
6b	Continually look for, develop, and offer new or improved services, and be able to use original approaches when dealing with problems in the workplace.
7b	Demonstrate fluency in the use of tools, technologies and methods in the field. They should know how to evaluate, clarify and frame complex questions or challenges using perspectives and scholarship from the business discipline.

Program Level Outcomes (PLOs)	
Students graduating our MBA program will be able to:	
1	Develop and exhibit applied and theoretical knowledge in the field of management and business administration
2	Use theoretical knowledge and advanced problem solving skills to formulate solutions and identify risks in the following fields: international business, finance management, general business, human resources management, management information systems, marketing management
3	Communicate within a highly specialist environment that allows the presentation of critiques of complex strategic matters
4	Demonstrate autonomy, creativity, and responsibility for managing professional practices
5	Demonstrate leadership and set strategic objectives for team performance
6	Identify ethical issues/problems in business organizations and reach decisions within ethical framework

APPENDIX B. CLASSIFICATION OF LU CURRICULUM COURSES:

Code	Classification	Description
Courses 300 level w/o graduate prerequisites	**Mastery 1 (M1)**	**Mastery 1 courses introduce graduate level concepts and ideas in a specific field of study and provide an opportunity to initiate the development of graduate level competences.**
Courses 300 level with graduate prerequisites	Mastery 2 (M2)	Mastery 2 courses build upon students' execution of Mastery 1 learning outcomes and allow for further development of students' mastery of concepts, ideas, and competences in the specific field of study.
Courses 398, 399	Mastery 2 / Assessment (M2A)	Mastery 2/Assessment courses are structured to provide opportunity to assess students' achievements of set program learning outcomes.
Courses 400 level	Mastery 2 / Research (M2R)	Mastery 2/Research courses employ individual research project to deepen students' understanding of the subject developed in lower level courses and to equip students with knowledge and skills required by MS and DBA degree programs.
Courses 500 level	Doctorate Assessment (DA)	Doctoral Assessment courses are doctorate level seminars and research activities fostering the highest level of professional expertise by providing continuous assessment and development of students' ideas and analytical skills in the context of the doctorate program.