



Lincoln University

BA 352 – Advanced System Analysis and Design COURSE SYLLABUS

Fall, 2026

Instructor: Mr. Abhishek Vaidya
Lecture Schedule: Monday, 12:30 PM – 03:15 PM
Credits: 3 units / 45 lecture hours
Level: Mastery 2 (M2)
Office Hours: Before and after class, or by appointment
E-mail: abhishek@lincolnuca.edu
Textbooks: Scott Tilley
System Analysis and Design, 13th Edition Course

(Previous editions are okay.)

Prerequisites: BA 160 or BA 350
Last Revision: August 10, 2026

COURSE DESCRIPTION

Analysis of real-world information systems. Included are requirements analysis, data flow diagrams, data dictionaries, systems proposals, and design. (3 units)

COURSE OBJECTIVES

To introduce students to the concepts, required skills, methodologies, techniques, and tools essential for the successful development of Management Information Systems (MIS). Students will learn system development environment and how to identify, select, initiate, and plan MIS development, determine system requirements, structure system processes, develop system specifications, design user interfaces, and evaluate different costing options.

COURSE LEARNING OUTCOMES

Upon completion of this course, students will be able to:

1. Understand the concepts of computer system and its applications
 - a. *Assessment Activities: Assignments, classroom participation, case studies, quizzes/exams*
2. Understand professional, ethical, legal, security, and social issues and responsibilities in the online platform
 - a. *Assessment Activities: Assignments, classroom participation, case studies, quizzes/exams*
3. Understand the impact of computing technologies in a societal context
 - a. *Assessment Activities: Assignments, classroom participation, case studies, quizzes/exams*
4. Analyze various use of computing techniques and tools necessary for businesses
 - a. *Assessment Activities: Assignments, classroom participation, case studies, quizzes/exams*

COURSE LEARNING OUTCOMES¹

	Course LO	Program LO	Institutional LO	Assessment Activities
	Understand the concepts of computer system and its applications	PLO 1	ILO 1b, ILO 7b	Assignments, classroom participation, case studies, quizzes/exams
	Understand professional, ethical, legal, security, and social issues and responsibilities in the online platform	PLO 5	ILO 3b, ILO 4b	Assignments, classroom participation, case studies, quizzes/exams
	Understand the impact of computing technologies in a societal context	PLO 4	ILO 1b	Assignments, classroom participation, case studies, quizzes/exams
	Analyze various use of computing techniques and tools necessary for businesses	PLO 4	ILO 1b	Assignments, classroom participation, case studies, quizzes/exams

INSTRUCTIONAL METHODS

This is a direct classroom instruction course. Lecture method is used in combination with group discussions, case studies, and outside readings, as assigned. The emphasis will be on learning by

¹ Detailed description of learning outcomes and information about the assessment procedure are available at the [Learning Outcomes Assessment](#) section of LU website.

doing. Every student must participate in an intensive classroom activity. Reading, writing, and computer assignments will be given throughout the course. There may be group presentations by students on the project assignments during class. Student's classroom activities will be graded by the level of class participation and attendance.

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 [LU Library](http://lincolnuca.libguides.com) website (lincolnuca.libguides.com).

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.

ASSIGNMENTS & QUIZZES

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. Each assignment is due at the beginning of the following class. You can return your assignments electronically if you desire. Late submission of assignments will be assessed a penalty of 10%. Quizzes are based on the lecture and material in the assignment and will take place at the beginning of the course.

ASSESSMENT

Attendance and classroom activities	every week	30%
Quizzes	as scheduled	10%
Mid-term exam	as scheduled	20%
Final exam	as scheduled	40%
Total		100%

There will be no make-up for a missed participation in a classroom activity. No make-up exams will be given unless you have the instructor's prior approval obtained in person before the exam date, with the exception of an extreme emergency. Late assignments will get no credit or reduced credit. **Cheating or plagiarism will result in an "F" grade.**

GRADING

Grades will be determined according to the following percentages awarded for completed work:

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

CLASSROOM POLICY

- Students are encouraged to participate in group discussions and class activities.
- Students are required to arrive to class on time.
- If a student misses a class, s/he is 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 be silenced.
- Questions and comments during the class are welcome.

SCHEDULE OF TOPICS

Please read every chapter of the textbook before you come to class.

Dates	Topics	Chapters
Aug 24	Information to System Analysis & Design	1
Aug 31	Analyzing the Business Case	2
Sept 7	Labor Day (Holiday)	
Sep 14	Managing Systems Project	3
Sep 21	Requirement Engineering	4
Sep 28	Data & Process Modeling	5
Oct 05	Object Modeling	6
Oct 12	User Interface Design	7
Oct 19	Data Design	8
Oct 26	Midterm	
Nov 02	System Architecture	9
Nov 09	Development Strategies	10
Nov 16	Managing Systems Implementation	11
Nov 23	Maintenance & Support	12
Nov 30	Managing Systems Security	13
Dec 07	Finals/Presentation	

MODIFICATION OF THE SYLLABUS

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.