System Analysis and Design (ITSE 1350)

CREDIT
3 Semester Credit Hours (2 hours lecture, 2 hours lab)

MODE OF INSTRUCTION
Face to Face

PREREQUISITE/CO-REQUISITE:
There are no Prerequisite/Co-requisites for this course.

COURSE DESCRIPTION
Encourages interpersonal skill development with clients, users, and personnel involved in development, operation, and maintenance of a system. Quality issues such as software testing, configuration management, quality management, and process improvement are addressed throughout the course.

COURSE OBJECTIVES
Upon completion of this course, the student will be able to
• Define and use common System Analysis and Design fundamental terminology.
• Utilize current Analysis and Design tools to graphically characterize processes and flows in a business system.
• Design and create effective Input/Output including Web pages/forms.
• Design Logical Databases.
• Demonstrate the technical and communication skills required for developing a Systems Proposal.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Abhinav Kamatham
Email:	Akamatham@lit.edu
Office Phone:	409-257-0058
Office Location:	TC-230
Office Hours:	Monday & Wednesday 8:00 a.m. – 9:00 p.m.
	Tuesday & Thursday 8:00 a.m. – 11:00 a.m.
	Friday 8:00am – 1:00pm

REQUIRED TEXTBOOK AND MATERIALS
Systems Analysis and Design, 12th Edition, Scott Tilley, ISBN-13: 9780357117811

Approved: Initials/date

ATTENDANCE POLICY
Attendance is recorded in Starfish for each class meeting.

DROP POLICY
If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

STUDENT EXPECTED TIME REQUIREMENT
For every hour in class (or unit of credit), students should expect to spend at least two to three hours per week studying and completing assignments. For a 3-credit-hour class, students should prepare to allocate approximately six to nine hours per week outside of class in a 16-week session OR approximately twelve to eighteen hours in an 8-week session. Online/Hybrid students should expect to spend at least as much time in this course as in the traditional, face-to-face class.

COURSE CALENDAR

DATE	TOPIC	ASSIGNMENTS /Quizzes (Due on this Date)
Week 1	**Overview & Syllabus**	
Week 2	Chapter 1. Introduction to Systems Analysis and Design	1/31/2025
Week 3	Chapter 2. Analyzing the Business Case	2/7/2025
Week 4	Chapter 3. Managing Systems Projects	2/14/2025
Week 5	Chapter 4. Requirements Engineering	2/21/2025
Week 6	Chapter 5. Data and Process Modeling	2/28/2025
Week 7	Chapter 6. Object Modeling	3/7/2025
Week 8	Chapter 7. Development Strategies	3/21/2025
Week 10	**Midterm Exam**	**3/19/2025**
Week 11	Chapter 8. User Interface Design	3/28/2025
Week 12	Chapter 9. Data Design	4/4/2025
Week 13	Chapter 10. System Architecture	4/11/2025
Week 14	Chapter 11. Managing Systems Implementation	4/19/2025
Week 15	Chapter 12. Managing Systems Support and Security	4/25/2025
Week 16	**Final Exam**	**5/02/2025**

Final grades will be calculated according to the following criteria:
- Assignments 40%
- Midterm   25%
- Finals   35%

GRADE SCALE

- 90-100   A
- 80-89   B
- 70-79   C
- 60-69   D
- 0-59   F

TECHNICAL REQUIREMENTS

The latest technical requirements, including hardware, compatible browsers, operating systems, etc. can be online at https://lit.edu/online-learning/online-learning-minimum-computer-requirements. A functional broadband internet connection, such as DSL, cable, or WiFi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at Special Populations - Lamar Institute of Technology (lit.edu).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these

emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

AI STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into the classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses.

ADDITIONAL COURSE POLICIES/INFORMATION
- Students should log onto Blackboard and access this course at least 3 times a week to keep on track with assignments. And do the assignments by each due date. There are 11 Units. For each unit, there will be a unit quiz in class, students should take it in person.
- Students should come to class to take Midterm and Final exams in person.
- Students should turn assignments in by the posted due date and time. The due dates are to keep you on track to a successful finish.
- Cheating of any kind will not be tolerated.
- Internet Usage – Students are expected to use proper net etiquette while participating in course emails, assignment submissions, and online discussions.
- Students should turn assignments in by the posted due date and time. Late work is not accepted. All assignments and quizzes stay open the entire term.
- If you wish to drop a course, the student is responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an 'F' in the course.
- If you need to contact the instructor, you can send an e-mail to akamatham@lit.edu. Your e-mail will be answered within 48 hours Monday – Thursday and within 72 hours Friday - Sunday. Be sure to include specific details and your section number, which chapter, assignment, and question you are working on. It is always extra helpful if you can include screenshots so I can see what you are referring to.

- ABSOLUTELY NO ASSIGNMENTS, EXAMS, PROJECTS OR TESTS WILL BE REOPENED. I strongly encourage you to complete all work well in advance of the Due Date, so you don't miss anything. The entire course is available from day 1 for you to work as fast as you can. Once all the work is completed, you are through with the class.
- Assignment may NOT be submitted via email.