

ISDS 406-50: Systems Analysis and Design

Spring 2021 | Online Section



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Office Hours: Tuesday & Thursdays; 6:30 pm - 7:30 pm by Appointment

Course Website: Access through Canvas

Required Text: *Systems Analysis & Design* (6th Edition), by Dennis, Wixom, & Roth
ISBN-10: 1118897846 ISBN-13: 978-1118897843

Recommended Software: Microsoft Visio (2013, or 2016 version)

Software: Microsoft Project (2013, or 2016 version)

Available to Cal State Fullerton students in SGMH computer labs. You can also download the software onto your personal machine. See instructions on Canvas.

Course Description:

ISDS 406 is an upper-division course in information systems analysis and design (SAD). The overarching goals of this course are:

- Introduce students to basic concepts of SAD, including project selection and management, requirements analysis, use case analysis, process modeling, data modeling, architecture design, user interface design, program design, data storage design, and system implementation.
- Introduce students to methods and tools used in planning, designing, developing, and implementing an information system that satisfies a business information need.
- Enable students to gain practical experience by following the systems development life cycle (SDLC) approach through a semester-long project.
- Help students gain an in-depth understanding of how information systems support the complexities in today's competitive business world.

Class Communication

Please make sure that you check your CSUF email account and Canvas regularly.

I welcome and encourage you to ask questions and seek clarification about both content and course structure. If you need to reach me, please do not hesitate to email me, or attend office hours. However, please respect the following guidelines:

- When emailing your professor or classmates, follow standard rules of network etiquette ("netiquette"). Here are some helpful email netiquette tips: <http://emailcharter.org>.
- I will respond to all emails **before the end of the next business day**. If I do not, please send a respectful reminder. I am not available on Sundays.
- Before you email me or come to my office hour with a question, make sure you have made at least minimal effort to first look for the answer on your own (e.g., syllabus, textbook, websites found through Google search, etc.). Self-sufficiency is important in IT work!

Teaching Method and Online Course Organization:

This course will be taught using various methods including textbook, recorded lecture videos, online discussion forums, and homework assignments. Lecture videos are intended to supplement and reinforce the text.

The course is organized week-by-week. Each week, you will be required to complete the following steps (with occasional exceptions), as outlined in detail on the course schedule and on Canvas:

- read the assigned pages from the textbook.
- view online lecture video segments (and potentially other online materials). These will be shorter than 60 minutes in total.
- post at least 2 questions or comments on the week's discussion forums. This replaces the valuable interaction with the instructor and other students that you would normally have in the classroom.
- complete an online timed quiz (via Canvas) to ensure that you studied the week's material (HINT: quizzes are based on textbook material).
- complete a homework assignment or project milestone.

Each week, all materials will be posted before Saturday morning 12:01 am, and all due dates are the following Sunday night at 11:59 pm (9 days later). Thus, each weekend the materials for both the previous week and the new week will be simultaneously available. Any exceptions will be clearly communicated on Canvas. **Please note that I do not work on Sundays, so you cannot expect last minute help from me right before deadlines.**

Evaluation:

Quizzes	11 x 10 pts each (drop 1 lowest)	10%
Discussion Forums	20 x 2 pts/post	4%
Participation Assignments	2-3 pts each	2%
Homework	10 assignments (some 20 pts, some 30 pts)	24%
Semester Project	100 pts mid-semester; 150 pts for final deliverable	25%
Exams	175 points for Midterm 1; 175 points for Final Exam	35%

93.00%- 100.00%	A	73.00% -76.99%	C
90.00% -92.99%	A-	70.00% -72.99%	C-
87.00% -89.99%	B+	67.00% -69.99%	D+
83.00% -86.99%	B	63.00% -66.99%	D
80.00% -82.99%	B-	60.00% -62.99%	D-
77.00% -79.99%	C+	0% -59.99%	F
A = outstanding; B = good; C = acceptable; D = poor; F = fail			

Class Requirement Details:

Quizzes. Quizzes are designed to ensure that students read the assigned textbook chapter, which is the main source of knowledge for the course. Quizzes are not meant to be “tricky” or excessively difficult—rather, I want to make sure you have read the chapter carefully. There will *generally* be one quiz for each chapter of the textbook, with some exceptions. The lowest quiz score will be dropped. Quizzes are due Sunday nights at 11:59 pm.

Discussion Forums. There will be a separate discussion forum open for each topic/week of the course. I will post some prompting questions at the beginning of the week. Sometime during the week, you are required to post on the forum at least twice. These posts could be replies to my

prompts or to other students, or they could be new questions/prompts of your own. No points are given for posting after the deadline. Points may be reduced if you consistently wait until Sunday to post.

Participation. Points for participation (20 pts total) will be given through simple assignments that will make the class more meaningful and fair for yourself, your classmates, and the instructor. These include evaluating team member performance for project deliverables, creating two or three practice questions for an exam, etc. These will be given by the instructor throughout the semester with clearly communicated due dates.

Homework. Homework should be completed individually unless noted otherwise (there are some team-based homework), though you may ask clarifying questions to the instructor or classmates. Most of the homework are project milestones. Instructions for homework assignments will be posted at the beginning of each week (sometimes earlier) and are due at the end of the week, Sundays at 11:59 pm. (I don't work on Sundays, so if you have questions or need help on homework, you'll have to start before the day of the deadline.)

Project. The project will be a comprehensive team-based assignment, designed to give you hands-on experience with analyzing and designing a system that is based on a real-world case. Most of your homework assignments are project milestones, so if you do well on those, the project deliverables will be very straightforward. Halfway through the semester, your team will submit a draft paper of your progress (largely focusing on the *analysis* portion). At the end of the semester, your team will submit a document detailing the full *analysis* and *design*. Team evaluations will be included as part of the grading. These team evaluations could affect individual grades.

Exams. There will be two exams during the course of the semester. Each exam will be given *in person* on the Saturdays noted. Exams are not comprehensive. If you have an unavoidable scheduling conflict on one or more of these Saturdays, please contact me about alternative test dates—you must contact me at least two weeks in advance of the exam date.

Late Work / Missing Assignments:

Late work is not acceptable. Quizzes are available only during the assigned week; they are timed and can only be taken once. All work is due at 11:59 p.m. on the dates indicated.

Technology failure is not an excuse for missing or late work. Save often and create backups whenever you use technology.

I understand that sometimes emergencies happen—for this reason, your lowest-scored quiz will not be included in your final grade calculation. Also, I will make one and only one exception per student for submitting a late homework assignment; you may submit it within 48 hours of the due date by emailing it to me along with the reason you are submitting late. Students should not miss exam dates. If you have a known scheduling conflict, you must contact me ASAP. I will do my best to accommodate documented emergencies.

Grade Appeals:

If you have a grading dispute, you must provide written details (i.e., in an email, not in person) of your dispute to your professor within one week of your grade being posted in order for your concerns to be considered and addressed. No appeals will be accepted after one week of posted grading.

There will be no rounding up to the next letter grade (e.g., just because you were less than 1% from the next higher grade). All grading is final unless appealed in a timely manner (i.e., not at the end of the course), documenting a specific instance of incorrect or perceived unfair grading. It would not be fair to you or fellow students to grant extra points just to round you up to the next grade. I'm willing to help you in many ways, but special unearned favors is not one of them. No exceptions.

Extra Credit:

No extra credit will be available, at this time.

CBE Assessment Statement:

The programs offered in College of Business and Economics (CBE) at Cal State Fullerton are designed to provide every student with the knowledge and skills essential for a successful career in business. Since assessment plays a vital role in College's drive to offer the best, several assessment tools are implemented to constantly evaluate our program as well as our students' progress. Students, faculty, and staff should expect to participate in CBE assessment activities. In doing so, CBE is able to measure its strengths and weaknesses and continue to cultivate a climate of excellence in its students and programs.

Special Accommodations:

The University requires students with disabilities to register with the Office of Disability Support Services (DSS), located in GH-101 and at (657) 278 - 3112, in order to receive prescribed accommodations appropriate to their disability. Students requesting accommodations should inform the instructor during the **first week** of classes about any disability or special needs that may require specific arrangements/accommodations related to attending class sessions, completing course assignments, writing papers or quizzes/tests/examinations.

Emergency Procedures:

- Earthquakes – Duck and Cover. When shaking has ended, exit the building through the stairs and walk to the front of the University (south).
- Fire – Leave immediately through the stairs and walk to the front of the University (south).

Academic Integrity:

Academic dishonesty includes, but is not limited to, cheating on examinations or assignments, unauthorized collaboration, plagiarism, falsification/fabrication of university documents, and acts designed to give unfair academic advantage to the student, assisting or allowing any of these acts, or the attempt to commit such acts. Academic dishonesty, when detected, will result in a lower letter grade for the work at hand, and may result in an F for the course plus additional university level disciplinary action. See your catalog for detailed information. As an CBE student, you are required to make an ethical and professional commitment to act appropriately in all academic activities and to not tolerate any dishonorable or disrespectful behavior from yourself or from your classmates. This requirement includes both online and face-to-face behavior and applies unambiguously to this course.

Additional Resources:

The college and the university provide many resources to students (e.g., IT, career services, clubs, counseling, academic advisement, physical and mental wellness, etc.). If you are facing any issue, there is likely a resource on campus to help you! Please don't hesitate to contact me and I can point you to the right resource. Another good starting place is the business advising center (at the college level) or the dean of students (university level).

University Policies can be found at: <http://fdc.fullerton.edu/teaching/syllabus.php>

Schedule (subject to change)

SDLC	Dates	Topic	Reading*	Forum**	Assignments**	
Planning	1/23-1/31	Systems Analyst & IS Development	Ch 1	Forum 1	HW#1	
	1/30-2/7	Development Methodologies	Ch 2 (check Canvas) *	Forum 2 (due 2/14)	HW#2	
	2/6-2/14	Project Selection and Management	Ch 2 (check Canvas) *		HW#3	
Analysis	2/13-2/21	Requirements Analysis	Ch 3	Forum 3	HW#4 (due 2/28)	HW#5 (due 3/7)
	2/20-2/28	Use Case Analysis	Ch 4	Forum 4		
	2/27-3/7	Process Modeling	Ch 5	Forum 5	HW#6 (due 3/14)	
	3/6-3/13	Prepare for and take MIDTERM EXAM (March 13 th , TBD)				
	3/13-3/21	Data Modeling; work on project	Ch 6 (check Canvas) *	(no forum nor quiz)	HW#7	
	3/20-3/28	WORK ON TEAM PROJECT			Project Mid-Semester Deliverable due 3/28	
	3/29-4/2	SPRING BREAK				
Design	4/3-4/11	Moving into Design; Architecture Design	Chs 7-8	Forum 6	HW#8	
	4/10-4/18	User Interface Design	Ch 9	Forum 7	HW#9	
	4/17-4/25	Program and Database Design; Object-Oriented Analysis and Design	Ch 10, 11 (check Canvas) *	Forum 8	HW#10 (due 5/2)	
Implementation	4/24-5/2	Moving to Implementation	Ch 12, 14 (check Canvas) *	Forum 9		
	5/1-5/9	Transition to New System	Ch 13	Forum 10	Work on final project deliverable	
	5/8-5/15	Prepare for and take FINAL EXAM (Sat May. 15 th , TBD)				
	5/15-5/20	PROJECT FINAL DELIVERABLE DUE on Thurs 5/20 at 11:59 pm				

*For Chs 1,3,4,5,7,8,9,12,13 you should read the full chapter. For Chs 2,6,10,11,14 I will post on Canvas which pages of the chapter you should read. **Quiz will be given each week on required readings** unless instructor notifies otherwise and is **due at 11:59 p.m. on Sunday**.

** Homework and forum posts are due at **11:59 p.m. on Sunday, unless otherwise indicated**.