

The UNIVERSITY of OKLAHOMA GALLOGLY COLLEGE OF ENGINEERING SCHOOL OF COMPUTER SCIENCE

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2	Course Code	CS5213									
	Course Name	Software Engineering Processes									
3	Version	1.1	la atm. atau				.1				
			Instructor	Mansoor Abd		Emai	1		<u> ⊅ou.edu</u>		
4	Name(s) of		Teaching Assistant	Ajisegiri	SJ	Emai	l <u>olu</u>	wasijibomi.a	ajisegiri@	ou.edu	
	Academic Staff		Teaching Assistant			Emai	I				
5	Semester	Spring									
6	Year	2025									
7	Program Level	MS									
8	Prerequisite Course	C S 3113 or C S 3823 or C S 5005									
	1		elivery Methods	Hour per week	Imple	mentation	Date	Time	Lo	cation	
			Lecture	0 units		s) per week)					
			Tutorial	0 units	, ,	s) per week)					
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10	Course Synopsis	development. Stud development, revid software quality. S	am project course focused on pro dents will learn about effective pro ew, defect tracking, testing, produ students will work in teams to dev ester, students should be able to	ocesses for software act delivery, and prodelop, deliver, and ev	requiremer luct evaluat	ts specification. There is	on, planning some empl	g, design, do	cumentat	tion,	
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Notes: regularly. Your continued use of the platform after changes are made constitutes acceptance of those changes.



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- 1. This Document Details the:
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 Week: Indicates the specific week of the course., b) Topic: The main subject or focus for the given week.,
 Chapters-Reading: Specifies the required reading for the week. Those Chapters reading are reflected from the required book however they can be found at any other online recourses,

 READ ME d) Weekly Activity: Outlines the tasks or activities that you are expected to complete during the week.
 e) SWEBOK v4.0: Refers to the Software Engineering Body of Knowledge, version 4.0, which outlines the knowledge areas covered this week.,
 f) Assessment Method: The type of assessment (e.g., quiz, assignment) assigned for this week, g) Total Marks: The weight or points assigned to this week's activities
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Week	Topic	Chapters-Reading	Weekly Activity	SWEBOK v4.0	Assessment Method	Total Marks	
			Discussion on Canvas (Introduction) Group Forming (Contact others)				
			3: Form a group of SEVEN students				
		2.1 Challenges of System Development	4: SET YOURS GROUPS IN CANVAS	C-ft	Participation		
		23 Software Project Management 23.1 Project Organization	5: Go to 3.2 Student List 6: Select the weeks you will be in charge as a leader	Software Engineering Professional Practice			
1	Introduction	23.2 Effort Estimation Method	5: Do the Chapters-Reading	(KA)			
		23.3 Project Planning and Scheduling			Ticket 1		
		23.4 Risk Management	1: Do the Chapters-Reading	Software Engineering	Software Development		
		23.5 Process Improvement	2: Complete (Ticket 1)	Professional Practice	Plan (SDP)		
2	Project Management	23.6 Applying Agile Principles Scrum	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		19.2 Software Quality Attributes					
		19.4 Software Verification and Validation Techniques 19.5 Verification and Validation in the Life Cycle		Software Quality (KA)	Ticket 2		
	Software Quality	19.6 Software Quality Functions	1: Do the Chapters-Reading	Software Engineering	Software Quality Assurance		
		22.1 The Baselines of Software Life Cycle	2: Complete (Ticket 2)	Professional Practice	Plan (SQAP)		
3	Management	22.4 Software Configuration Management Functions	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		4.3 Types of Requirements		Software			
		4.4 Challenges of Requirements Elicitation		Requirements (KA)	Ticket 3		
		4.5 Steps for Requirements Elicitation	1: Do the Chapters-Reading	Software Engineering	SRS Standard		
	Software Requirements	4.6 Applying Agile Principles	2: Complete (Ticket 3)	Professional Practice			
4	Specification	4.7 Requirements Management and Tools 7.1 What is an Actor	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		7.1 What is an Actor 7.2 What is a Use Case		Software			
		7.3 Business Process, Operation and Action		Requirements (KA)	Ticket 4		
		7.4 Steps for Driving Use Cases from Requirements	1: Do the Chapters-Reading	Software Engineering	Use Case		
		7.5 Applying Agile Principles	2: Complete (Ticket 4)	Professional Practice			
5	Use Case	7.6 Tool support for Use Case Modeling	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		18.1 Coding Standard					
		18.2 Organizing the Implementation Artifacts 18.3 Generating Code from Design			Ticket 5		
		18.5 Parin Programming	1: Do the Chapters-Reading		Software Testing Plan (STP)		
		18.6 Test-Driven Development	2: Complete (Ticket 5)		Soleware resulting riam (STF)		
6	Implementation	18.7 Applying Agile Principles	3: Do the PeerReview (Evaluation Form)			10	
		20.1 What is Software Testing					
		20.2 Why Software Testing 20.5 Test Coverage		Software Quality (KA)	Ticket 6		
		20.6 A Generic Software Testing Process	1: Do the Chapters-Reading	Software Engineering	Test Case		
		20.7 Object Oriented Software Testing	2: Complete (Ticket 6)	Professional Practice	rest case		
7	Software Testing	20.10 Software Testing In The Life Cycle	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		6.3 Software Design Principles					
		6.5 Architectural Styles		Software Design (KA)	Ticket 7		
		6.6 Architectural Design Process	1: Do the Chapters-Reading	Software Engineering	Architectural Design		
		6.7 Architectural Style and Package Diagram	2: Complete (Ticket 7)	Professional Practice	SDD Standard		
8	Software Architecture	6.9 Applying Agile Principles	3: Do the PeerReview (Evaluation Form)	(KA)		10	
		9.2 UML Sequence Diagram 9.3 Steps for Object Interaction Modeling					
		11.3 Steps for Deriving a Design Class Diagram		Software Design (KA)	Ticket 8		
		11.4 Organize Classes with Package Diagram	1: Do the Chapters-Reading	Software Engineering	Setup Environment		
_		12.3 Graphical User Interface Widget	2: Complete (Ticket 8)	Professional Practice			
	Modeling and Design Spring Break	12.4 User Interface Design Process Spring Break	3: Do the PeerReview (Evaluation Form) Spring Break	(KA) Spring Break	Spring Break	Spring Break	
10	Opining Dieak	24.2 Security Requirement	Opining Dieak	орину втеак	Opining Dieak	opining bleak	
		24.3 Secure Software Design Principles		1			
		24.4 Secure Software Design Pattern			INFORMAL REVIEW		
11	Software Security	24.5 Seven Best Practices of Software Security	1: Do the Chapters-Reading				
- ' '	Conward Occurry	24.6 Software Security in the Life Cycle	2: Prepare for Sprint Execution		Ticket 9		
12	Sprint 1	Research or Industry Project	Sprint Execution		Sprint 1 Execution		
13	Sprint 2	Research or Industry Project	Sprint Execution		Ticket 9 Sprint 2 Execution		
					Ticket 9		
14	Sprint 3	Research or Industry Project	Sprint Execution		Sprint 3 Execution Ticket 9		
15	Sprint 4	Research or Industry Project	Sprint Execution		Sprint 4 Execution		
16	FORMAL Review/ Demo						
10	16 Total Marks						
Notes:	Total Marks Notes: *Nothing for now						



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Read Me

- 1. This document outlines the policies for the course, school, and university.
- ${\it 2. Please \ review it thoroughly before \ beginning \ the \ course \ or \ reaching \ out \ to \ the \ instructor.}$
- 3. Note: If any text is in white color, it indicates content not related to this specific course.

Ī	1		it indicates content not related to this s	Mansoor Abdulhak
Instructor	2		classroom and experiential learning thre	of up-to-date techniques including active participation via an inverted bugh project-based instruction and assessment. Through these methods, I environment as much as possible in order to best prepare students for
	1	Home Page	Login with your 4+4 using your standard software provides a number of useful fe	our home page. The URL for the home page is http://canvas.ou.edu. d OU password. If you have difficulty logging in, call 325-HELP. This atures, including a list of assignments and announcements, an electronic as course site will be used for all updates. You should check the site
	2	Grade Checking	crucial that you routinely verify the accuror disagreement, promptly notify me via address and rectify the matter. Keep in	that preserves the raw data utilized for computing your course grade. It is iracy of your recorded grades. In the event of any identified discrepancies a email (follow the policy of Communication), and I shall promptly mind Notifications must be submitted within the same week as the grade processed.
Course	3	Deadlines	designated date in the Ticket instruction beyond the specified deadline. This pol as software engineering professionals,	fied in writing, please ensure all assignments are submitted by the as. In the event of a delay, a 10% deduction will be applied for each day icy is in place to maintain fairness and consistency. It's worth noting that, it's our responsibility to ensure timely submission, avoiding any delays e.
	4		given that AI tools are not fully matured and learn how to effectively work with A to adapting and utilizing emerging techr that any direct copy-pasting without rea	ools, I encourage their use to improve your skills on using them. However, it is the responsibility of the student to evaluate the content generated I tools to achieve optimal results. This approach reflects our commitment nologies responsibly in the learning environment. It is essential to note ding, understanding, analyzing, and actively working to enhance your onduct.
	-		Follow the University Final Even Relici	05
	5	LAGIIIS		
	6	Ownership of Course Materials	lectures, quizzes, handouts, protocols,	s owned by Mansoor Abdulhak. This includes but is not limited to exams, electronic documents, and syllabi. Original or transcribed content may not ted online, or sold without her and/or her expressed, written consent.
	1	Communication	related to the learning outcomes, Ticker 2.Urgent announcements will be common Canvas for updates. 3.For formal communication, please usuchat you include the semester, the course	n will be through Discussion threads in Canvas. All general questions is or reference are encouraged to be discussed openly within. Unicated through Canvas. It is your responsibility to regularly check the email to contact me. To facilitate this communication PLEASE, Ensure see code ID, the group ID and your Sooner ID (e.g. Spring25-CS5213-in your email. Without this information, your message may not be noticed
		Communication	exam policy, is designed to support stu- option allows students to demonstrate t have commitments that prevent consist to succeed, regardless of their individual	tracess, I offer two attendance tracks to accommodate diverse traditional attendance policy. The second track, known as the double dents who may face challenges in regular attendance. This alternative heir understanding through exams, providing flexibility for those who may ent attendance. Our aim is to ensure that all students have an opportunity all circumstances. It's important to note that the cut-off for selecting your additional switching tracks won't be allowed unless exceptional circumstances.
Class	2		Attendance (Track 1)	This course follows a synchronous format, requiring your attendance at all scheduled class sessions and labs in person. Exceptions are made for illness, unforeseen caretaking duties, or if you feel uncomfortable being in group settings at the moment. In addition to the aforementioned policy, you have the option to opt for the Double Exam (Track 2) policy.
				Attendance to classes and participation in group activities are not mandatory and won't be calculated. However, your final grade will be determined by a combination of an individual assignments scores and telephone. This calculation will contribute to your overall assessment for the course, with the maximum achievable grade capped
		Class Attendance	Double Exam (Track 2)	at a 'C'. As you will only be evaluated based on the ASO 4 & ASO 6 outcomes
		1 2 2 3 4 5 6 1 1	Instructor 1	Teaching Philosophy

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		4	Grade	Your grade will be determined through 1: The assessment method detailed in the 1. Course Syllabus 2: Peer evaluations of teamwork • your contributions to the team homework • your enabling others to make contributions • may significantly impact your letter grade
			Crade	
		5	Outline Olere	See the Online Learning at OU
			Online Class	Long before the University of Oklahoma was established, the land on which the University now resides was the
4	University	1	Land Acknowledgement	traditional home of the "Hasinais" Caddo Nation and "Kirikir?i:s" (audio available when opened in Chrome) Wichita & Affiliated Tribes. We acknowledge this territory once also served as a hunting ground, trade exchange point, and migration route
		2		Support is available for any student experiencing mental health issues that are impacting their academic success. Students can either been seen at the University Counseling Center (UCC) located on the second floor of Goddard Health Center or receive 24/7/365 crisis support from a licensed mental health provider through TELUS Health. To schedule an appointment or receive more information about mental health resources
			Mental Health Support Services	<u>University Counseling Center</u>
				The University of Oklahoma faculty are committed to creating a safe learning environment for all members of our community, free from gender and sex-based discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking, in accordance with Title IX. There are resources available to those impacted, including: speaking with someone confidentially about your options, medical attention, counseling,
		3		OU Advocates
				University Counseling Center
			Title IX Resources and Reporting Requirement	Institutional Equity Office
				The University of Oklahoma (OU) is committed to the goal of achieving equal educational opportunity and full educational participation for students with disabilities. If you have already established reasonable accommodations with the Accessibility and Disability Resource Center (ADRC), please submit your semester accommodation request through the ADRC as soon as possible and contact me privately, so that we have
				submit your semester accommodation request through the ADRC
		4		ADRC's pre-registration form
				Register with the ADRC
			Reasonable Accommodation Policy	www.ou.edu/adrc
		5		It is the policy of the University to excuse the absences of students that result from religious observances and to reschedule examinations and additional required classwork that may fall on religious holidays, without penalty.
			Religious Observance	See Faculty Handbook 3.15.2
		6	Academic Integrity	See Academic Integrity Policy
		7	Adjustments for Pregnancy/Childbirth Related Issues	Contact me or the Accessibility and Disability Resource Center at 405/325-3852 as soon as possible. Also, see the Institutional Equity Office FAQ on Pregnant and Parenting Students' Rights for answers to commonly asked questions.
		8		Pre-finals week will be defined as the seven calendar days before the first day of finals. Faculty may cover new course material throughout this week. For specific provisions of the policy please refer to OU's
		•	Final Exam Preparation Period	Final Exam Preparation Period policy.
		9	Emergency Protocol	<u>During an emergency, there are official university procedures that will maximize your safety.</u>

10	Severe Weather	Look for severe weather refuge location maps located inside most OU buildings near the entrances Seek refuge inside a building. Do not leave one building to seek shelter in another building that you deem safer. If outside, get into the nearest building. Go to the building's severe weather refuge location. If you do not know where that is, go to the lowest level Weather Safety Information
11	The University of Oklahoma Active Threat Guidance	The University of Oklahoma embraces a Run, Hide, Fight strategy for active threats on campus. This strategy is well known, widely accepted, and proven to save lives. To receive emergency campus alerts, be sure to update your contact information and preferences in the account settings section at one.ou.edu . 1. RUN: Running away from the threat is usually the best option. If it is safe to run, run as far away from the
12	Fire Alarm/General Emergency	LEAVE the building. Do not use the elevators. KNOW at least two building exits ASSIST those that may need help PROCEED to the emergency assembly area OU Fire Safety on Campus
13	Office of Access and Opportunity's Belonging Statement	Why You Belong at the University of Oklahoma: The University of Oklahoma fosters an inclusive culture of respect and civility, belonging, and access, which are essential to our collective pursuit of excellence and our determination to change lives. The unique talents, perspectives, and experiences of our community enrich the learning, and working environment at OU, inspiring us to harness our innovation, creativity, and collaboration for
14	Copyright Syllabus Statement for In-Person or Online Courses	Sessions of this course may be recorded or live-streamed. These recordings are the intellectual property of the individual faculty member and may not be shared or reproduced without explicit, written consent of the faculty member. In addition, privacy rights of others such as students, guest lecturers, and providers of copyrighted material displayed in the recording may be of concern. Students may not share any course recordings with
15	Pre-Finals Week Policies	During pre-finals week, all normal class activities will continue; however, no assignment, test, or examination accounting for more than 3% of the course grade may be assigned, unless it is assigned in advance of pre-finals week and worth less than 10%, or scheduled at least 30 days prior if worth more than 10%. No activity or field trip may be scheduled that conflicts with another class.