

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

1.0 Course Syllabus

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1. This Document Details the Course Content
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1	Course Code	CS3203									
2	Course Name	Software Engineerin	g								
3	Version	1									
			Instructor	Abdulhak, Mar	isoor	Email		m.hak@	ou.edu_		
4	Name(s) of		Teaching Assistant	Ajisegiri S	J	Email	olu	wasijibomi.aj	isegiri@ou.e	du	
	Academic Staff		Teaching Assistant	, ,		Email				-	
5	Semester	Fall	-								
6	Year	2024									
7	Program Level	BS									
	Prerequisite	ВО									
8	Course	CS 2413 or CS 2414 and CS 2813 or Math 2513									
		Deliver	ry Methods	Hour per week	Implen	nentation	Date	Time	Loca	tion	
								11:00 am			
		S	Lecture	3 units	(3 hour(s	s) per week)	MWF	12:00 pm	Gallogly Ha	ıll 127	
		/itie	Tutorial	0 units		s) per week)			ounogry		
		∖ctiv	Laboratory	0 units	_ ` _ `	s) per week)					
		/ (Bi	Supervision	0 units	(0 hour(s) per week)					
9		ri ri	Online Learning	0 units	(0 hour(s	s) per week)					
		Геа	Out Class	6 units	(6 hour(s	s) per week)					
		n-Person Student Center Learning) Activities						09:30 am			
		Cen						-	<u>Devan Ener</u>		
		nt (Students Hour	2 units	(2 hour(s	s) per week)	MW	10:30 am	234 or Virtu	ally	
		n-Person (Student (М	01:30 pm -			
	Contact Hours	In- (St	Final Exam	0 units	(2 hour(s	s) per Sem)	Dec 9	03:30 pm	Gallogly H	all 127	
11		ASO 3 ASO 4 ASO 5	Communicate effectively in a variety of professional contexts. Recognize professional responsibilities and make informed judgments in computing practice based on le ethical principles. Function effectively as a member or leader of a team engaged in activities appropriate to the program's of Apply computer science theory and software development fundamentals to produce computing-based so							ipline.	
		N/A		e tneory and software	developme	nt fundamenta	ais to produc	ce computing-	-based soluti	ons.	
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			N/A								
	Outcomes	N/A	N/A								
			N/A	Weighting	ASO 3	ASO 4	ASO 5	ASO 6	Letter G	irades	
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12	Outcomes	N/A Methods Presentations Sprints Midterm Exam	N/A (Ticket 1-4) 5%*4	0% 20% 10%	V	√	V	√	≥ 90 80-89 70-79	A B C	
12		N/A Methods Presentations Sprints Midterm Exam Project	N/A (Ticket 1-4) 5%*4	0% 20% 10% 30%	√ √	√ √	√ √	√ √	≥ 90 80-89 70-79 60-69	A B C D	
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Instructor reserve the right to modify or update the content on this platform at any time without prior notice. Users are encouraged to check for updates $regularly. \ Your \ continued \ use \ of the \ platform \ after \ changes \ are \ made \ constitutes \ acceptance \ of \ those \ changes.$



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

2.0 Topics

- 1. This Document Details the:

- a) Week: Indicates the number of the week., b) Chapter: The chapter from the required textbook, c) Syllabus: The specific topic to be discussed.,
 d) Class Activity: We have 3 sessions each week; the number indicates the session (e.g., 1 indicates activities during the 1st session).
 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
 2. Cells with a red triangle contain a note; hover to read it.

Week	Chapter/Topic	Syllabus	Class Activity	SWEBOK v4.0	Assessment Method	Total Marks
1	Software Products	1.1 The product vision 1.2 Software product management 1.3 Product prototyping	1.1 Introduction 1.2 Communication Activity 1.3 Group forming 2.1 Group Meeting to complete tasks 3.1 Presenting (Ticket 1) 1.1 Introduction	Software Engineering Professional Practice (KA)	Ticket 1 Group Presentation Evaluation	5
2	Agile Software Engineering	2.1 Agile methods 2.2 Extreme programming 2.3 Scrum	2.1 Group Meeting to complete tasks 3.1 Football week no Class (Submission Ticket 2)	Software Engineering Management (KA)	Ticket 2 Scrum Plan	5
3	DevOps and Code Management	10.1 Source code management	1.1 Labor day no Class 2.1 Introduction & Group Meeting to complete tasks 3.1 Preparing (Ticket 3) Prepare the Git Repository Practice Branching and Merging	Software Configuration Management (KA)	Ticket 3 Branching & Merging Video Tutorial	5
4	DevOps and Code Management	10.2 DevOps automation 10.3 DevOps measurement	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Reviewing (Ticket 3)	Software Configuration	Review Ticket 3	
5	Cloud-based Software	5.3 Devolps incastration and containers 5.2 Everything as a service 5.3 Software as a service 5.4 Multitenant and multi-instance systems 5.5 Cloud software architecture 6.1 Microservices	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Preparing Infrastructure as Code	Software Construction (KA) Software Engineering Operations (KA) Software Construction		
6	Microservices Architecture	6.2 Microservices architecture 6.3 RESTful services 6.4 Microservice deployment	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Reviewing (Progress Sprint 1-1)	(KA) Software Engineering Operations (KA)	Project Code Review Form-1-1	5
7	Features, Scenarios and Stories	3.1 Personas 3.2 Scenarios	1.1 Introduction 2.1 Group Meeting to complete tasks 2.2 Writing Requirements: Stories and Features 2.3 Writing User-Experience Scenarios Clarifying User Goals 3.1 Midterm	Software Requirements (KA)	Midterm	10
8	Features, Scenarios and Stories	3.3 User stories 3.4 Feature identification	1.1 Introduction 2.1 Group Meeting to complete tasks 2.2 Discuss the product backlog 3.1 Preparing USE CASE component	Software Requirements (KA)	Assignment 1 Use Case Template (PeerReview Form)	10
9	Software Architecture	4.1 Why is architecture important? 4.2 Architectural design 4.3 System decomposition	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Design the product architecture	Software Architecture (KA)	Ticket 4 Architectural Design	5
10	Software Architecture	4.4 Distribution architecture 4.5 Technology issues 9.1 Functional testing 9.2 Test automation	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Presenting (Ticket 4) 1.1 Introduction 2.1 Group Meeting to complete tasks 2.2 Discuss the product unit testing	Software Design (KA)	Assignment 2 Test Case Template (PeerReview Form)	
11 12	Test	9.4 Security testing 9.5 Code reviews	3.1 Preparing TEST CASE component 1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Reviewing product unit testing (Progress Sprint 1-2)	Software Testing (KA) Software Maintenance (KA) Software Quality (KA)	Project Code Review Form-1-2	10
13	Security and Privacy	7.1 Attacks and defenses 7.2 Authentication 7.3 Authorization 7.4 Encryption 7.5 Privacy	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Develop the product Sprint 2	Software Security (KA)	Ticket 5 Sprint Execution	
14	Reliable Programming	8.1 Fault avoidance 8.2 Input validation 8.3 Failure management	1.1 Introduction 2.1 Group Meeting to complete tasks 3.1 Develop the product Sprint 2	Software Engineering Professional Practice (KA)	Ticket 5 Sprint Execution	
15	Code Review	Code Review Sprint 2	Code Review Sprint 2	Software Engineering Professional Practice (KA)	Project Code Review Form-2	20
16	Pre-finals week	Relax Week	Do nothing		Final Exam	20
17			Exam & Class Points			
Notes:	*Nothing for now				Total Marks	100



1. This Document Details the:
a) Week: Indicates the number of the week, b) Topic:The chapter from Section 2.1 of the textbook, focusing on the specific topic to learn, c) Date: The specific start date of the week,

READ ME d) Hours: The estimated hours required per week for an average student to complete the activities e) Questions: Prepared questions to help you understand the topic,
f) Skills: The skills this week aims to help you gain or improve, g) Comments: Details of the week's activities, including any deadlines if applicable.

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8 Features, Scenarios and Stor 7-Oct 10 What are the Constraints? Demants where seeds and supported? Constraints? Demants where seeds and supported? Attention to Detail 2. Submit Assignment 1 (Oct 14th/08:00 am) 2. Prepare 2 Questions (CH 3) 10 flow will the System Be Maintained and Supported? Attention to Detail 2. Prepare 2 Questions (CH 3) 2. What are the main ever interactions on succeases to be represented in the sequence, and what roles do they pilay? 3 what messages or events are exchanged between objects during the sequence? Of which objects or components are involved in the sequence of So North messages or events are exchanged between objects during the sequence? Of which objects or components are involved in the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects during the sequence of So North messages or events are exchanged between objects of the interaction. In ordinary of the sequence of So North messages or events are exchanged between objects of the interaction. In ordinary of the sequence of So North messages or events are exchanged between objects of the interaction. In ordinary of the sequence of So North messages or events are exchanged between objects of the interaction. In ordinary of the sequence of So North Messages or events are exchanged between objects of the interaction. In ordinary of the sequence of So North Messages or events are exchanged between objects of the interaction. In ordinary of the sequence of							
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The UNIVERSITY OF OKLAHOMA GALLOGLY COLLEGE OF ENGINEERING SCHOOL OF COMPUTER SCIENCE

4.0 Policies

Read Me

1. This Document Details the course, school, and university policies.

Read Me			ocument Details the course, review this document befor			
		1	About Instructor		Mansoor Abdulhak	
1	Instructor	2	Teaching Philosophy	inverted classroom and exp	de a variety of up-to-date techniques including active participation via an periential learning through project-based instruction and assessment. seek to make courses imitate the work environment as much as possible idents for their careers.	
	Course	1	Home Page	http://canvas.ou.edu. Login logging in, call 325-HELP. assignments and announce	software for our home page. The URL for the home page is a with your 4+4 using your standard OU password. If you have difficulty This software provides a number of useful features, including a list of ements, an electronic mailing list, and grade book. The Canvas course ates. You should check the site regularly.	
		2	Grade Checking	course grade. It is crucial the event of any identified discipolicy of Communication)	grade book that preserves the raw data utilized for computing your hat you routinely verify the accuracy of your recorded grades. In the repancies or disagreement, promptly notify me via email (follow the , and I shall promptly address and rectify the matter. Keep in mind nitted within the same week as the grade release; otherwise, changes	
2		3	Deadlines	by the designated date in the applied for each day beyon consistency. It's worth noting	erwise specified in writing, please ensure all assignments are submitted the Ticket instructions. In the event of a delay, a 10% deduction will be ad the specified deadline. This policy is in place to maintain fairness and that, as software engineering professionals, it's our responsibility to avoiding any delays that may result in fines for our workplace.	
		4	Al Tools	In recognizing the lasting impact of Al tools, I encourage their use to improve your skills on using them. However, given that Al tools are not fully matured, it is the responsibility of the student to evaluate the content generated and learn how to effectively work with Al tools to achieve optimal results. This approach reflects our commitment to adapting and utilizing emerging technologies responsibly in the learning environment. It is essential to note that any direct copy-pasting without reading, understanding, analyzing, and actively working to enhance your skills will be considered academic misconduct.		
		5	Exams	Follow the University Final	Exam Policies	
		6	Ownership of Course Materials	limited to exams, lectures,	this course is owned by Mansoor Abdulhak. This includes but is not quizzes, handouts, protocols, electronic documents, and syllabi. Original not be copied, recorded, retransmitted, posted online, or sold without written consent.	
	Class	1	Communication	server link will be shared or class are encouraged to be for questions involving pers the Discord server for a mo 2. Urgent announcements v regularly check Canvas for 3. For formal communicatio PLEASE, Ensure that you in ID (e.g. Fall24-CS3032-Gro	will be communicated through Canvas. It is your responsibility to	
3				diverse circumstances. The known as the double exam regular attendance. This al through exams, providing fl attendance. Our aim is to e their individual circumstance.	to student success, I offer two attendance tracks to accommodate e first track follows a traditional attendance policy. The second track, policy, is designed to support students who may face challenges in ternative option allows students to demonstrate their understanding lexibility for those who may have commitments that prevent consistent ensure that all students have an opportunity to succeed, regardless of ces. It's important to note that the cut-off for selecting your attendance and switching tracks won't be allowed unless exceptional circumstances. This course follows a synchronous format, requiring your attendance at the behalf of the service of the	
		2		Attendance (Track 1)	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. Update your group ID in 3.1 Student List By Week ONE	
		_	Class Attendance	Double Exam (Track 2)	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 twice the exam score. This calculation will contribute to your overall assessment for the course, with the maximum achievable grade capped at a 'C'. As you will only be evaluated based on the ASO 4 & ASO 6 outcomes. Update your group ID in 3.1 Student List By Week ONE	
		3	Classroom Conduct	•	t be permitted. In the case of disruptive behavior, You will be asked to any charge you with a violation of the Student Code of Responsibilities	

		4	Grada	Your grade will be determined through 1: The assessment method detailed in the 1. Course Stillabus 2: 360 Feedback evaluations of teamwork • your contributions to the team homework • your enabling others to make contributions • may significantly impact your letter grade		
		5	Grade Online Class	See the Online Learning at OU		
		1	Land Acknowledgement	The University of Oklahoma recognizes the historical connection our university has with its indigenous community.		
		2	Academic Integrity	See Academic Integrity Policy		
		3	Religious Observance	See Faculty Handbook 3.15.2		
		4	Accommodation of Disabilities	To discuss potential accommodations, please contact the ADRC at 730 College Avenue, (ph.) 405.325.3852, or adrc@ou.edu.		
		5	Title IX	See Resources and Reporting Requirement		
	University	6	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.		
		7	Final Exam Preparation Period	See Faculty Handbook 4.10		
		8	Weather Safety Information	See Information		
		9	Emergency Protocol	See Procedures		
4		10		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 possible and seek refuge in an innermost room. Avoid outside doors and windows. Get in, Get Down, Cover Up Wait for official notice to resume normal activities.		
			Severe Weather	Weather Safety Information		
		11	Armed Subject/Campus	Avoid: If you believe you can get out of the area WITHOUT encountering the armed individual, move quickly towards the nearest building exit, move away from the building, and call 911. Deny: If you cannot flee, move to an area that can be locked or barricaded, turn off lights, silence devices, spread out, and formulate a plan of attack if the shooter enters the room. Defend: As a last resort fight to defend yourself.		
		12	Intruder Fire Alarm/General	1. LEAVE the building. Do not use the elevators. 2. KNOW at least two building exits 3. ASSIST those that may need help 4. PROCEED to the emergency assembly area 5.ONCE safely outside, NOTIFY first responders of anyone that may still be inside building due to mobility issues. 6. WAIT for official notice before attempting to re-enter the building.		
			Emergency	OU Fire Safety on Campus		
		13	Mental Health Support	If you are experiencing any mental health issues that are impacting your academic performance, counseling is available at the University Counseling Center (UCC). The Center is located on the second floor of the Goddard Health Center, at 620 Elm Rm. 201, Norman, OK 73019. To schedule an appointment call (405) 325-2911. For more information, please visit University Counseling Center		
			Services	University Counseling Center		