

## Course Syllabus



**Course** CS 4485.0w1  
**Course Title** Computer Science Project  
**Professor** Dr. Miguel Razo  
**Term** Fall 2023  
**Meetings** Monday 1:00 PM to 2:15 PM and Friday 1:00 PM - 3:15 PM, Online MS Teams

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### Professor's Contact Information

<b>Office Phone</b>	972-883-4240
<b>Office Location</b>	ECSS 3.605
<b>Email Address</b>	mrzo@utdallas.edu
<b>Office Hours</b>	Tu/Th 10:00 AM - 11:00 AM
<b>Other Information</b>	Make sure to send your email to mrzo@utdallas.edu using the subject CS4485

### Course Modality and Expectations

<b>Instructional Mode</b>	online
<b>Course Platform</b>	Format (online or in-person) for the team meetings and meeting with the sponsor/advisor will be defined once the project is assigned.
<b>Expectations</b>	Read <a href="#">Student Conduct and Discipline</a> , use proper classroom etiquette and language

### COVID-19 Guidelines and Resources

The information contained in the link lists the University's COVID-19 resources for students and instructors of record.

Please see <http://go.utdallas.edu/syllabus-policies>

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### Classroom Conduct Requirements Related to COVID-19

UT Dallas requires that all students must wear a face covering that covers the nose and mouth in all university buildings and classrooms. To help protect the health and safety of students, instructors, and the University community, students who choose not to wear a face covering may not attend class in person but may attend a course remotely. Anyone attending class in person without a face covering will be asked to put one on or leave. Instructors may end the class if anyone present refuses to appropriately wear a face covering for the duration of class. Students should also be sure they are at least six feet away from their fellow students and faculty and seated in a seat that is designated to ensure that distance. Students who either refuse to wear face coverings appropriately or

to adhere to other social distancing protocols may face disciplinary action for [Student Code of Conduct](#) violations. Students who are unable to comply with the university policies including wearing a face covering should consult the [Comets United](#) webpage for further instructions.

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)" webpage)

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## **Class Attendance**

The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected regardless of modality. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. These attendance requirements will not be used as part of grading (see Class Participation below for grading information).

In-person participation records may be used to assist the University or local public health authorities in performing COVID-19 occurrence monitoring. Please note – in-person attendance requires consistently adhering to University requirements, including wearing a face covering and other public safety requirements related to COVID-19, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

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## **Class Participation**

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

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## **Class Recordings**

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility

accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

***NOTE: if the instructor records any part of the course, then the instructor will need to use the following syllabus statement:***

The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

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### **Class Materials**

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

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## General Course Information

### Pre-requisites, Co-requisites, & other restrictions

Prerequisite: CS/SE 3345, CE/CS/SE 3354 and at least three CS 43xx courses

### Course Description

This course is intended to complement theory and to provide an in-depth, hands-on experience in all aspects of a software development project. Students will work in teams on projects of interest to industry and will be involved in specifying the problem and its solution, designing, and analyzing the solution, developing the software architecture, along with implementation and testing plans. The deliverables will include reports that document these steps as well as a final project report and a user manual of the developed system. Teams will also make presentations during the class as well as demonstrate their software

Students that successfully complete this class will have the:

- Ability to write detailed requirements from a customer's minimal project specification
- Ability to do requirements analysis with a customer
- Ability to write a project proposal based on the refined requirement specification
- Ability to work in a team and contribute to a team software design project
- Ability to work in a team and contribute to the production of an enterprise software product
- Ability to meet milestones and final goals in a team environment
- Ability to write a final report fully documenting the design of a software design project
- Ability to present to others the work of the team
- Ability to independently research and learn new programming languages, platforms, and/or design approaches required to develop industrial applications

### Suggested Texts, Readings, & Materials

All materials as provided in class section on eLearning

## Assignments & Academic Calendar

- The team will meet with Faculty advisor/ Supervisor (weekly) and company mentor (at least once a week), depending on the project.
- **Weekly reports** will be submitted (individual or as a team) to the sponsor and faculty advisor. Work with the company mentor and faculty advisor to decide the deadline, content, and format.
- Weekly reports **MUST** include at least:
  - o list of completed tasks: Include purpose, outcome, and estimated amount of time spent on each task,
  - o planned tasks for next reporting period and
  - o any issue that prevents the individual/team from making progress.
- Regular meetings will include (Tentative):

Session	Topic	Classroom
Aug 21*	First day of Senior Design class! (Form your team)	Virtual - MS Teams/Individual
Aug 25	Student Agreement Form, and Resume Submission Due	eLearning/Individual
Aug 27*	Deadline to submit your team and project preferences	Online/Team
Aug 28* and Sep 1*	Class is canceled to facilitate all the kickoff meetings!	
Sep 8*	Project Management	
Sep 15*	Leadership & Ethics	
Sep 22*	Entrepreneurship	
Oct 6	Project Proposal and Mid Semester Peer Review  Sponsor Midterm Grade Feedback Due (email to <a href="mailto:mrzo@utdallas.edu">mrzo@utdallas.edu</a> )	-- Signed proposal (eLearning/Team) -- Peer Review CATME (Online/Individual)
Nov 23 to 26	Thanksgiving break	
...	Classes are canceled all the way to November last week so that you can use class time to focus on the project.	--
Dec 1	Poster, Single Slide and Presentation Script – Sponsor Approval Form (Signed)	-- Submit by Dec 1 @ 11:59 PM on eLearning/Team
Dec 7	Final Report, Final Peer Review <b>Plan ahead: No deadline extensions.</b>  Sponsor Final Grade Feedback Due (email to <a href="mailto:mrzo@utdallas.edu">mrzo@utdallas.edu</a> )	-- Signed Final Report (eLearning/Team). Submit by Dec 7 @ 11:59 PM on eLearning. -- Peer Review CATME (Online/Individual)
Dec 9 Saturday	Senior Design Day - Team's oral presentations	TBD from 9 AM to 1 PM/Team

### Course Policies (UTDesign Projects)

<b>Grading (credit) Criteria</b>	<ul style="list-style-type: none"> <li>- Project Proposal: (Midterm grade, see the intro slides for details)</li> <li>- Final Report includes Design document, Test plan/test cases, Implementation, Testing, user manual, Sponsor Approval Form, poster &amp; one-slide, presentation)</li> </ul> <p><b>Final grade is based on the final report (FR), oral presentation/poster session (P), sponsor/faculty advisor feedback (SF/FAF) and peer review (PR)</b>            Review the intro slides for details:  <math>FG \sim FR * (AVERAGE(SF, FAF) * 0.85 + P * 0.1 + PR * 0.05)</math></p>
<b>Late Work</b>	No late homework or partial credit
<b>All other policies</b>	Please visit <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for other policies

*The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.*

**Suggested Calendar**

## CS 4485 - Timeline

Activity	Description	Week																Comments
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0	Section Available on eLearning	0																Review available projects
1	First Day of Classes	1																Form a team & discuss projects & submit resume and pre req form
2	Team Registration	2																Submit team information and project preferences
3	Project Assignment		3															Contact the sponsor and schedule kick-off meeting
4	Kick - off Meeting		4															Kick off meeting must be at least scheduled by this date
5 to 9	Lectures			5	6	7	8	9										Lecture 1 to 5 and Weekly Reports 1 to 5
10	Mid Semester Peer Review							10										CATME
11	Project Proposal							11										Submit on eLearning
12 to 18	Teamwork / Collaboration								12	13	14	15	16	17	18			6th to 12th weekly report
19	Poster/Slide/Sponsor Approval Form															19		Submit on eLearning
20	Final Peer Review															20		CATME
21	Final Report																21	Submit on eLearning
22	Senior Design Day - Oral Presentation																22	Oral Presentations