

University of North Texas at Dallas

Syllabus

CSCE 4905	Information Technology Capstone I (3 Hrs)	Fall 2019
Department:	Mathematics and Information Sciences	School: Liberal Arts and Life Sciences
Instructor name:	Dr. Saif Al Sultan	
Office Location:	Founders Hall 222	
Office Phone:	972-338-1539	
Email Address:	Saif.alsultan@untdallas.edu	
Office Hours:	MW 1:00 PM – 3:00 PM TuTh 1:00 PM – 3:00 PM Or by appointments	
Classroom Time & Location:	TuTh: 10:00 AM – 11:20 AM in FH 136	
Course Catalog Description:	First of a two course sequence in which students will develop a complex IT System starting from customer requirements and progressing through the entire analysis, design, implementation, testing and delivery lifecycle. Students will work in teams to develop a project plan, complete the technical components of the project, prepare a variety of deliverable documents, and finally deliver the finished product to the customer. The first course will focus on the analysis and design of the system.	
Prerequisites:	CSCE 3055	
Required Text:	<ul style="list-style-type: none"> • <i>No books required for this course.</i> 	
Recommended Texts and References:	Journals, conference papers and lecture notes.	
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fhcg.follett.com	
Course Goals:	<ul style="list-style-type: none"> • Equip students with the ability to conduct literature survey, which in turn will enhance students' ability to critical thinking, referencing, and report writing. • Improve students' ability in using the previously acquired knowledge (from the previously studied courses) during solving real world problems. 	
Student Learning Outcomes:	Upon successful completion of this course, the student will be able to: <ul style="list-style-type: none"> • Define the structure of the project and explain the research methodology and the available software development tools. • Analyze complex business problems and identify their requirements. • Review the previous work critically and ethically in order to justify the uniqueness of the proposed idea and the selection of the software development tools. • Use the unified modelling language (UML) to model the user and system requirements. • Work effectively as a member of a team to write a report and to present the proposed work 	

Course Outline

This schedule is subject to change by the instructor, any changes to this schedule will be announced in class.

Date	Topics	Teaching Method	Deadlines
8/27	Project Structure and Projects identification.	Lecture	
8/29	Project Structure and Projects identification.	Lecture	
9/3	Project Structure and Projects identification.	Lecture	
9/5	literature survey	Self study using several books, journals and conference papers.	Chapter 1
9/10	literature survey		
9/12	literature survey		
9/17	literature survey		
9/19	literature survey		
9/24	literature survey		
9/26	literature survey		
10/1	literature survey		
10/3	Justify the uniqueness of the idea and identify the required tools.	Self study and meetings with the supervisor.	Chapter 2
10/8			
10/10	Identify the Requirements of the proposed system.	Self study and meetings with the supervisor.	
10/15	Identify the Requirements of the proposed system.		
10/17	Identify the Requirements of the proposed system.		
10/22	Identify the Requirements of the proposed system.		
10/24	Identify the Requirements of the proposed system.		
10/29	Produce the initial design of the proposed system.	Self study and meetings with the supervisor.	Chapter 3
10/31	Produce the initial design of the proposed system.		
11/5	Produce the initial design of the proposed system.		
11/7	Produce the initial design of the proposed system.		
11/12	Write a report that demonstrates the proposed work.		
11/14	Write a report that demonstrates the proposed work.		
11/19	Write a report that demonstrates the proposed work.		
11/21	Write a report that demonstrates the proposed work.		
11/26	Write a report that demonstrates the proposed work.	Chapter 4	
12/3	Write a report that demonstrates the proposed work.		
12/5	Write a report that demonstrates the proposed work.		
<i>Final Exam-Presentation 10/10 (10:00AM-12:00PM)</i>			

Course Evaluation Methods

At the end of the course the student will present his/her report to a panel (Viva). The following criteria will be used to assess the report and the student's performance during the viva. The following matrix is subject to change by the instructor, any changes to this schedule will be announced in class.

Grading Matrix

No.	Criteria	Point
1	Presentation.	30%
2	The Logical structure of the report.	10%
3	The selection and the analysis of the related work.	10%
4	Clear specification of the problem.	5%
5	Critical engagement with published material (including courses taken) and references.	5%
6	Development method (requirements, initial design).	15%
7	Citations.	5%
8	The accuracy and the correctness of the report.	10%
9	The illustration of figures, tables and diagrams.	5%
10	Meet the submission deadline	5%
Total		100%

The following standard grading scale will be used to determine your final letter grade:

A = 90% or better

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7(7.004) Disability Accommodations for Students

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each

faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at <http://www.untdallas.edu/disability>. You may also contact them by phone at 972-338-1777; by email at UNTDisability@untdallas.edu or at Building 2, room 204.

Course Evaluation Policy:

The student evaluation of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider a student's evaluation to be an important part of your participation in this class.

Email Policy:

Use your CANVAS email account to contact me. You should check your email every day as you are responsible for all information I send out. Due to privacy rights, I will not discuss grades over the phone and I will only answer emails from your CANVAS account.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic%20Integrity.pdf for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Inclement Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance and participation is mandatory because the class is designed as a shared learning experience. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Cell Phones:

Cell Phone use (ringing, texting, reading, etc.) in class is strictly prohibited.

General Policies:

Leaving class early is generally prohibited. You may leave class if you are not returning in the case of an emergency. Leaving class should be by the permission of the instructor.

It is the students' responsibility to be aware of all announcements made for the class and changes made to the syllabus.