CSCI 595, 01W, Research Literature & Techniques

COURSE SYLLABUS: Summer I, 2020

Instructor:

Name:	Dr. Meikang Qiu, Professor, Texas A&M University, Commerce, Department of Computer Science
Office:	Journalism Building room 123;
Office Hours:	MTW 9am to 11am, others by appointment
Phone:	903-886-5427;
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Preferred form of communication: Email
Communication response time: 24 hours, normally within 2 hours (exclude weekends).

Textbook required:

No textbook required. However, the following books are useful for learning about research method and design, research literature study, project management, and thesis writing:

1. "Project Management for Research—A Guide for Graduate Students", Adedeji B. Badiru, Christina F. Rusnock, and Vhance V. Valencia. ISBN 9781482299113, CRC Press
2. Shelly, G., & Rosenblatt, H.J. System Analysis and Design - 9th Edition, Shelly Cashman Series, 2012, ISBN-13: 978-1-133-27405-6 or ISBN: 0-538-48161-7

Course Description:

A course designed to acquaint the student with the role of research in the initiation, development and modification of concepts and theories in computer science. A final written report and presentation and/or demonstration of results obtained during the course will be made to interested faculty members and students. Prerequisite: Completion of the required core courses.

STUDENT LEARNING OUTCOMES (SLO):

1. Understand various research methods and techniques in computer science that lead to successful research
2. Read, critique and write technical articles in computer science
3. Design and implement a substantial project on a specific computer science problem
4. Communicate effectively both orally and as a written paper

COURSE REQUIREMENTS:

Minimal Technical Skills Needed

Using Microsoft Word and PowerPoint, using presentation and graphics programs, etc.

The syllabus/schedule are subject to change.

Instructional Methods
Delivery modalities: web-based course
Learning activities: problem-solving, Q&A session, individual projects, and exercise practice
Assessments: quizzes, homework, project development, and paper writing

Tips for Success in the Course
Completion of weekly exercise assignment (2 hours estimated weekly) Weekly
preview of chapters to be covered (2 hours estimated weekly) Review of
chapters covered (1 hour estimated weekly)

Student Responsibilities:
Regular attendance of class. In case of absence, the student is responsible for the make-up of covered material.

Instructor Availability:
To communicate with me about this course you are to use the email address on this syllabus. Please include the course number/name in the beginning of the subject field for every email message.

Sharing Your Work
All work produced by students may be shared by the instructor with the class for purposes of example and training. Such work will be as anonymous as possible. Finally, the instructor may share your work anonymously with future classes or in his own writing and research.

Submitting Assignments:
Unless special instructions are provided, assignments are NOT to be posted on any discussion board. Your completed work must be placed in the appropriate Dropbox in D2L Online. DO NOT EMAIL ME ANY ASSIGNMENTS AS THEY WILL BE DELETED. Please follow the rules for naming and posting assignments.

Late Work:
All assignments are due at the time specified. Please keep in mind that no late work will be accepted without penalty. If an assignment is turned in after the due date, 15% of the grade will be forfeited. No assignment will be graded if submitted 7 or more days after it is due. An assignment must be submitted within 6 days of the due date if you want it graded. If you have a problem submitting an assignment on time you should contact me before the due date. For some weeks, it may be possible to work ahead and submit the assignment before it is due.

Cheating on Exams
Students who share information about answers on the exams or receive assistance from external sources during the exam will receive a zero grade for the exam.

Method of Evaluation (_Tentative_):

Problem identification/Definition	(20%)
Literature review	(10%)
Methodology for solution	(10%)
Design of solution	(10%)
Implementation	(10%)
Presentation	(20%)
Final paper	(20%)

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Grading Scheme

Assignments/Mini Project (total 5)	40%
Research Paper	60%

Final grades in this course will be based on the following scale: A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% or Below

Relationship between the assessments and course-level student learning outcomes:

Student Learning Outcomes	SLO1	SLO2	SLO3	SLO4
Assessment Methods Used	Presentation, Paper	Presentation, Paper	Program	Presentation, Paper

Course Arrangement:

The course will start in 6/2 and finish in 7/1. Hence, we only have 5 weeks.
Week 1 (6/1); Lecture 1, 2, and 3, HW 1 is assigned. Final research project will be assigned
Week 2 (6/8): Lecture 4. 5. and 6, HW 2 is assigned.
Week 3 (6/15): Lecture 7, 8, and 9, HW 3 is assigned.
Week 4 (6/22): Lecture 10, 11, and 12, HW 4 is assigned.
Week 5 (6/29): Lecture 13, 14, 15, and 16. Final project due in 6/30.

I will post a video in each Monday, assign HW. The due time of the HW is in Sunday midnight.

Course Outline/Calendar:

WEEKS*	SUBJECTS TO BE COVERED
1	Introduction, Syllabus, and Background Discussions
2	Project Management and Research
3	Literature Review
4	Choosing Your Research Topic
5	Choosing Your Advisor and Committee
6	Research Methodology
7	Design and Scheduling
8	Organization and Structure
9	Time Management
10	Research Implementation
11	Research Resource Management
12	Communicating Your Work
13	Case Study: Cybersecurity Research Paper
14	Final report/paper writing
15	Final presentation review
16	Final demos with presentation

* Students will give update on research project progress during class meetings. Each student will be allocated certain amount of time for presentation. The instructor will use some of the class meeting time to introduce contents and topics that will be helpful for students to develop their projects. Please note that students are expected to come with a master's level project idea.

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TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:
https://community.brightspace.com/s/article/Brightspace-Platform-Requirements

LMS Browser Support:
https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_suppo rt.htm

YouSeeU Virtual Classroom Requirements: https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System- Requirements

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

https://community.brightspace.com/support/s/contactsupport

Interaction with Instructor Statement

See Above

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

See Above

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

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University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.
http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: https://www.britannica.com/topic/netiquette

TAMUC Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01. http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

Undergraduate Academic Dishonesty 13.99.99.R0.03

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

Graduate Student Academic Dishonesty 13.99.99.R0.10

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce Gee
Library- Room 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@tamuc.edu

Website: Office of Student Disability Resources and Services

http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServ ices/

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Nondiscrimination Notice

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun.
Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Web url: http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M- Commerce campuses. Report violations to the University Police Department at 903- 886-5868 or 9-1-1.

Course Outline/Calendar:

WEEKS*	SUBJECTS TO BE COVERED
17	Introduction, Syllabus, and Background Discussions
18	Project Management and Research
19	Literature Review
20	Choosing Your Research Topic
21	Choosing Your Advisor and Committee
22	Research Methodology
23	Design and Scheduling
24	Organization and Structure
25	Time Management
26	Research Implementation
27	Research Resource Management
28	Communicating Your Work
29	Case Study: Cybersecurity Research Paper
30	Final report/paper writing
31	Final presentation review
32	Final demos with presentation

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