

CIS 4380-110, CRN 80046, Software Engineering

Summer 2018 rev. 05.07.2018

Texas A&M University-Central Texas

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Dr. Timothy G. Woodcock

Office: 323G Founders Hall

Phone: 254-519-5783

Email: WoodcockTG@tamuct.edu Please only use this email

Office Hours:

Office Hours are Monday, Tuesday, and Wednesday from 11am to 12:30pm and by appointment.

Mode of instruction and course access:

This course is a face-to-face class with some supplemental readings made available online using the TAMUCT Canvas Learning Management System: [<https://tamuct.instructure.com>]
Homework will be assigned, collected, and graded in Canvas.

Student-instructor interaction:

I prefer that you do not phone me. I will check email often Monday through Thursday.

911 Cellular:

Emergency Warning System for Texas A&M University-Central Texas

911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911Cellular through their myCT email account.

Connect at [911Cellular](https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management) [<https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management>] to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

Course Overview and description:

Examine the production of high quality software for medium and larger scale projects. Explore theoretical software engineering research as the basis for a practical approach to developing quality software. Special emphasis on the software life-cycle model, fundamental software engineering principles, and documentation standards in detail

Course Objective:

Student Learning Outcomes:

Students will design, build, debug, and implement a large scale programming project. Industry standard code and documentation will be applied to all segments of the project.

Student Learning Outcomes:

1. Student will contrast the details of at least two software development models.
2. Student will describe and apply the engineering skills that are applied to software development; which provides knowledge of how to produce higher quality, maintainable software on a group project.
3. Students will learn by participation how to manage and effectively participate in a group project.
4. Students will learn by project team participation in planning, decision-making, commitments and in meeting team schedules.
5. Students will demonstrate structured and thorough technical writing skills applied to software documentation.

Required Reading and Textbook(s):

- 1) Essentials of Software Engineering 3RD Ed., Tsui, Karam, and Bernal, Jones & Bartlett
- 2) Effective Software Engineering, John Svart

Course Requirements:

- There will be 2 exams: a midterm and a final exam.
- There will be 13 reflections on Svart, each worth 20 points.
- Students are required to participate, actively in a software development project, worth a total of 500 points. As part of the project, students are required to submit a number of reviews. Groups will submit minutes of weekly team meetings. Completed and reviewed design documents, requirements documents, and test plans are required before coding can begin. The design reviews will grant design documents approval. Each group member must participate in the design, and code reviews. Every group member is required to contribute design work, documentation, and code to the project.
- The assignment specifications will be found in Canvas.
- All documentation artifacts must be submitted as Word Documents. All zipped code files must be submitted as WinZip files (zip) no other files will be accepted (no rar files!).

Grading Criteria Rubric and Conversion

Assignment	Total Points
Mid-term Exam	100
Final Exam	100
Projects (group)	500
Group Charter	40
Reflections	260

Grade	Points
A	900-1000
B	800-899
C	700-799
D	600-699
F	Below 600

Posting of Grades

- All grades will be posted in Canvas.
- All assignments turned in on time will be graded within 2 weeks of the due date.
- *Add some statement about turn-around time for grades to be posted.*

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

Week	Date	Items	Tsui book	Svart Chapters Read chapters	thru
1	8/28/2017	Join a group	Chapter 1	1	4
2	9/4/2017	Team Charter Due	Chapter 2	5	8
3	9/11/2017	Project Report 1	Chapter 3	9	12
4	9/18/2017		Chapter 4	13	16
5	9/25/2017	Project Report 2	Chapter 5	17	20
6	10/2/2017		Chapter 6	21	24
7	10/9/2017	Project Report 3	Chapter 7	25	28
8	10/16/2017	Midterm	Chapter 8		
9	10/23/2017		Chapter 9	29	32
10	10/30/2017	Project Report 4	Chapter 10	33	36
11	11/6/2017		Chapter 11	37	40
12	11/13/2017	Project Report 5	Chapter 12	41	44
13	11/20/2017	Thanksgiving	Chapter 13	45	48
14	11/27/2017		Chapter 14	49	50
15	12/4/2017	Project Demonstration			
16	12/11/2017	Final Exam			

Important University Dates:

August 28, Add/Drop/Late Registration begins
 August 30, Add/Drop/Late Registration ends, 16-week and 1st 8-week classes
 September 1, Priority Deadline to Submit Graduation Application
 September 4, Labor Day, CAMPUS CLOSED
 September 5, Last day to drop 1st 8-week classes with no record
 September 13, Last day to drop 16-week classes with no record
 September 22, Last day to drop a 1st 8-week class with a Q or withdraw with a W
 October 6, Deadline to submit graduation
 October 20, Last day to withdraw from the University (1st 8-week classes WF)
 October 23, Add/Drop/Late Registration begins, 2nd 8-week classes
 October 26, Add/Drop/Late Registration ends, 2nd 8-week classes
 October 30, Last day to drop 2nd 8-week classes with no record
 November 10, Veteran's Day

November 10, Last day to drop with a Q or withdraw with a W (16-week classes)
November 17, Last day to drop a 2nd 8-week class with a Q or withdraw with a W
November 22-23, Thanksgiving, CAMPUS CLOSED
December 15, Last day to withdraw from the University (16-week and 2nd 8-week classes)
December 15, Last day to file for Degree Conferral (Registrar's Office)
December 15, Commencement (End of Fall Term)
December 25-January 1, WINTER BREAK

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements

This course will use the A&M-Central Texas Instructure Canvas learning management system. Logon to A&M-Central Texas Canvas [<https://tamuct.instructure.com>].

Username: Your MyCT username (xx123 or everything before the "@" in your MyCT e-mail address)

Password: Your MyCT password

Canvas Support

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

Other Technology Support

For log-in problems, students should contact Help Desk Central.

24 hours a day, 7 days a week:

Email: helpdesk@tamu.edu

Phone: (254) 519-5466

[Web Chat](http://hdc.tamu.edu): [<http://hdc.tamu.edu>]

Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy.

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the

procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity.

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

Academic Accommodations.

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Department of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Department of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) web page [https://www.tamuct.edu/student-affairs/access-inclusion.html].

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit the [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) web page [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines online](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf), please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is

able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring.

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive FREE online tutoring and writing support. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

University Writing Center: Located in 416 Warrior Hall, the University Writing Center (UWC) at Texas A&M University-Central Texas is a free workspace open to all TAMUCT students from 10am-4pm Monday-Thursday during the summer with online hours available Monday-Thursday from 6:00-9:00pm. Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) at [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu to schedule an online tutoring session. Tutors are prepared to help writers of all levels and abilities at any stage of the writing process.

While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the University Writing Center is here to help!

If you have any questions about the University Writing Center, please do not hesitate to contact Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu.

University Library.

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

OPTIONAL POLICY STATEMENTS:

A Note about Sexual Violence at A&M-Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](https://www.tamuct.edu/departments/compliance/titleix.php) [https://www.tamuct.edu/departments/compliance/titleix.php].

INSTRUCTOR POLICIES

Students should come to class prepared, ready to ask questions and participate in discussions.

While in other classes, the direct quoting of other authors is considered acceptable; in this class, it is not acceptable. You may not directly quote any other published paper, web site, or textbook in any writing assignment, including papers, homework, discussion boards, PowerPoint

presentations, or any other written assignments. The simple reason for this is that copying (quoting) is a lower level skill. However, reading, understanding, and then communicating the ideas in your own words is a high level skill that I want you to develop.

Please note that plagiarism, is a serious problem, and that any plagiarized assignment will result in a failing grade for this class.

Do not submit any code that is not yours. Do not copy code from websites, other students, tutors, friends, family, or from any other source that is not your brain. If you get help with any code, you must make it clear which portions of the code you had help with and which you wrote. You must supply the contact information for the person, web site, youtube video, or other person who helped you. This is very important because you will only learn to write code by writing code. Yes, some concepts are difficult, but if you do not write the code and solve the problems, you will not learn how to write code and solve problems. Having someone explain a solution or algorithm to you or help you debug a problem is acceptable and allowed. Having someone else write the code for you is not OK. Submitting someone else's code as your own will result in a failing grade for this class.

All late assignments will lose 30% of the available points before being graded. Late assignments will be graded at the professor's discretion.

All projects must have the author's name in every class and method submitted. (See Code Documentation Standards.) Every project submitted must be named starting with the student's last name followed by the project number. All projects must be zipped using WinZip. The zipped file submitted must be named, starting with the student's last name. Projects that do not follow this naming and documentation standard will be returned ungraded.

Dr. Woodcock reserves the right to modify this syllabus during the semester.