

CENG 5033 Software Systems Engineering

Course Syllabus, Fall 2020

Instructor: Dr. Colin Doyle
Email: colin.doyle@oc.edu
Phone: (405) 771-0034
Text: (405) 771-0034

Text:

Pressman, R. (2020). *Software engineering: A practitioner's approach* (Ninth ed.). McGraw Hill Education.

Description:

Development of large, complex, software intensive systems requires expertise in Software Systems Engineering. System development ranges from user needs through deployment and maintenance of the system. Topics include system life cycles, processes, models, methods and tools for software systems development.

Pre-requisite: Systems Engineering

Evaluation:	Grading Scale:
Homework (20%)	A 90% to 100%
Quizzes (20%)	B 80% to 89%
Report (25%)	C 70% to 79%
Final Exam (35%)	F below 69%

Course Schedule:

Week	Date	Class	Homework	Report/Presentation
1	Thursday, Oct 8	Welcome! Course Introduction/Syllabus, Lecture, Report/presentation work		
	Wednesday, Oct 14		CH 1-5	Topic, Abstract and References
2	Thursday, Oct 15	Quiz #1, Lecture, Report/presentation work		
	Wednesday, Oct 21		CH 15-17	
3	Thursday, Oct 22	Quiz #2, Lecture, Report/presentation work		
	Wednesday, Oct 28		CH 18-21	Work on Software Description
4	Thursday, Oct 29	Quiz #3 Lecture, Report/presentation work		
	Wednesday, Nov 4		CH 24-27	Report, Presentation Slides
5	Thursday, Nov 5	Quiz #4, Presentations		
	Wednesday, Nov 11			
6	Thursday, Nov 12	Presentations		
8	Thursday, Nov 19	Final Exam		

OC Mission Statement

Oklahoma Christian University is a higher learning community that transforms lives for Christian faith, scholarship, and service.

INTEGRATION OF FAITH & LEARNING

The OC MSE Program holds students to high academic and ethical standards. The student's responsibility is to fully apply themselves to their academic pursuit so as to maximize their gains from the program and to fulfill their full potential as individuals blessed with God given talents in engineering.

Work with enthusiasm, as though you were working for the Lord rather than for people. Remember that the Lord will reward each one of us for the good we do, whether we are slaves or free. [Eph. 6:7-8, NLT]

The faculty and staff of the OC MSE Program partner with students in their pursuit of knowledge and seek to provide each student with a rich academic experience while at OC. To pursue engineering is to pursue, though in a limited way, the creative and analytical nature of our Lord and Savior.

Where were you when I laid the foundations of the earth? Tell me, if you know so much. Who determined its dimensions and stretched out the surveying line? What supports its foundations, and who laid its cornerstone as the morning stars sang together and all the angels[a] shouted for joy? [Job 38:4-7, NLT]

ATTENDANCE POLICY

Regular attendance is expected in this course. Occasional tardiness due to unusual situations will be allowed; but all such absence should be explained to the course instructor. Habitual absence (2 or more unexcused for an 8-week course) will result in an automatic failing grade in the class!

Each unexcused absence will reduce your final grade by 7%. Each unexcused-tardiness will reduce your grade 1% per each 15minute interval up to 7%.

GRADING POLICIES

This is a graduate engineering course and per the OC Graduate engineering catalog no "D" grades are allowed (performance below a "C" grade is considered failing). No late work will be allowed.

APPROPRIATE ATTIRE

Students are required to dress appropriately for class. A student who is inappropriately dressed may be dismissed from class to change into acceptable attire. A copy of the OC Dress Code can be found on pages 30-31 of the Student Handbook online.

COURSE-LEVEL INFORMATION TECHNOLOGY POLICIES

- **Blackboard and E-mail**

This course will use an Internet tool called Blackboard as well as E-mail. You can find information about this course such as announcements, course documents, assignments, etc. at the URL bb.oc.edu. You must login to the site and select this course to see the information. It is **your responsibility** to check this site and your university E-mail often. Only your university issued E-mail address will be used for communication.

- **Electronic equipment**

For all classes, you are expected to have access to a laptop computer. Many classes conduct testing on computing platforms in supervised settings, and it is mandatory that students will have a mobile platform compatible with those testing requirements.

For face-to-face classes, classroom use of the computers is determined by the instructor and following their instructions is expected. For online classes, you are expected to have a working computer at all times with the required software correctly installed and working. If you need assistance, immediately contact the OC Information Technology group.

Cell phones and pagers should not disrupt the class. If you continue to use any electronic device in class when asked not to, you will be asked to leave the classroom.

POLICIES ON ACADEMIC HONESTY

- **Cheating**

Cheating on an examination or an assignment undermines the ethics of the academy and the specific Christian purposes of Oklahoma Christian University. Accordingly, students who cheat on examinations or assignments will face serious consequences, as outlined in the policy below.

- **Plagiarism**

One particular form of cheating is plagiarism. Plagiarism is the transmission of another's ideas, words, or materials as one's own and/or the failure to credit accurately the ideas, words, or materials of another. Plagiarism also includes passing off another's work (a friend, a parent, a website) as one's own. Plagiarism undermines the ethics of the academy and the specific Christian purposes of Oklahoma Christian University. Accordingly, students who engage in plagiarism in papers submitted will face serious consequences, as outlined in the policy below.

- **Penalties for Academic Dishonesty.**

1. On the first offense, the student will receive zero (0) credit for the examination or assignment. For forms of cheating or dishonesty other than on examinations or assignments, the Professor shall have the discretion to impose an appropriate penalty. Professors must send documentation of the first offense to the appropriate chair, the dean of the appropriate college, the VPAA, and the Dean of Students.
2. On the second offense in the same course, the student will receive an F in the course. Professors must send documentation of the second offense to the appropriate chair, the dean of the appropriate college, the VPAA, and the Dean of Students.
3. At either the first offense or second offense, the student may appeal using the process set forth in the *OC Academic Policy Manual* covering Grade Appeals.
4. If the student commits offenses in two or more courses, the Academic Appeals Committee, established in the *OC Academic Policy Manual*, may assign penalties for academic dishonesty in addition to the penalties assigned by the professors in the courses. The Academic Appeals Committee may impose penalties up to and including suspension from the University in instances where a student has engaged in cheating or plagiarism in two or more courses. The Academic Appeals Committee will inform the VPAA and the Dean of Students in writing of any penalties imposed by it and will report annually on its activities to the University's Academic Affairs Committee.
5. Professors should maintain the highest standards of academic honesty both in and out of the classroom. Professors must report and apply the rules regarding cheating/plagiarism to the appropriate channels. The student should be referred to the Oklahoma Christian University Covenant for principles which should guide conduct in these matters.

As a student at Oklahoma Christian University you are bound by the OC Student Handbook. The OC Student Handbook details the rules and penalties related to Academic Dishonesty. Read the handbook and know what is expected!

- **Additional Program Details on Honesty**

During your course work within engineering there will be times when you are faced with deciding what is cheating or plagiarism. If you are in doubt about what constitutes cheating or plagiarism then ask your professor. You will not be accused of anything by asking before you do something. The following are some situations that the faculty considers cheating. This is not an exhaustive list so you need to evaluate your actions closely.

1. Getting information from someone else during an examination or quiz
2. Using any notes during an exam or quiz when not allowed
3. Using solution manuals or someone else's solution as your own solution on a homework even if you copy it in your own handwriting or type it yourself
4. Copying information from a website without proper credit or reference
5. Using someone else's computer code to "start" your program or as your program
6. Falsifying or fabrication of analytical or experimental results

It is also important for students to not enable others to cheat in their courses. By this we mean purposefully giving someone else your work for them to use even if you do not think they will submit part or all of it as their own work. There is a difference between helping someone learn and helping someone cheat. If you help someone cheat you will also receive a zero for that assignment.

AMERICANS WITH DISABILITIES ACT (ADA) / 504 STATEMENT

If you have a diagnosed disability and need special accommodations, please notify Ms. Katy Roybal (425-1876) before or immediately after your first scheduled class meeting. After your disability has been verified, your instructor will work with you, with Ms. Roybal, and with the Office of the Vice President of Academic Affairs (425-5460) to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this course.

ACADEMIC USAGE OF STUDENT WORK AND INTELLECTUAL PROPERTY

Student work for this course may be used for future academic purposes by the department and university. The student's submission of intellectual property in fulfilling the requirements of course work acknowledges joint ownership with the University of the Intellectual Property.

ANTI-HARASSMENT AND DISCRIMINATION POLICY (TITLE IX)

Oklahoma Christian University is a Christian community that has committed itself, unequivocally, to ensuring a working and learning environment in which the dignity of every individual is respected and a campus environment that is free of unlawful harassment, which includes sexual assault or misconduct. OC's Anti-Harassment and Discrimination Policy (see the OC Student Handbook) is compliant with Title IX, which states, "No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." Discriminatory and sexual harassment is unchristian and uncivil behavior. It is a breach of community, which expresses disrespect, exploits and undermines relationships based on trusts, and interferes with learning and productive work.

Students are encouraged to immediately seek available assistance and report incidents of harassment to either the Title IX Coordinator or one of the Title IX Deputy Coordinators listed below:

Title IX Coordinator	Ms. Tamie Willis	405.425.5320	tamie.willis@oc.edu
Title IX Deputy Coordinator – Student Services	Ms. Summer Lashley	405.425.5908	summer.lashley@oc.edu
Title IX Deputy Coordinator – Housing	Mr. John Ortiz	405.425.5932	john.ortiz@oc.edu
Title IX Deputy Coordinator – Athletics	Ms. Stephanie Findley	405.425.5355	stephanie.findley@oc.edu

Students have access to confidential services through the Counseling

Center and the Mercy Clinic.

OC Counseling Center	405.425.5250	
Mercy Clinic	405.425.6100	2810 E. Memorial Rd., Suite 140

GENERAL CONTACT INFORMATION

Chair of Graduate School of Engineering:

Prof Steve Maher, Email: steve.maher@oc.edu, Phone: 425-5407

Dean of College of Engineering and Computer Science:

Dr. Byron Newberry, Email: Byron.newberry@oc.edu, Phone: 425-5428.

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