CPSC 541
Systems and Software Standards and Requirements
Spring 2020

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   Office Hours: W and Th 4:30 – 6:00 pm
   Or by appointment

Prerequisites:
   CPSC 362 or equivalent work experience

Learning Goals of this course:
- In this course you will mainly learn how to establish the requirements of a software system, specify/develop and manage those requirements.
- You will also learn basic software engineering standards (process, products, Resource and Technique)

Text:
- Required: Wiegers, Karl, *Software Requirements (3rd Edition)*, Microsoft Press 2013 (ISBN 978-0-7356-7966-5)
- Recommended Text:
  Schmidt, Michael E.C. *Implementing the IEEE Software Engineering Standards,*
  Sams Professional 2000 (ISBN: 0-672-31857-1)
- Other materials as needed

Course work
   Course work will include exams, term project along with a presentation.
1. Exams
- Midterm (20 %): March 13 (Friday).
 There is no make-up midterm exam. If you cannot participate in a midterm because of illness or other emergency situation, you need to let me know in advance, if all possible and provide me with an appropriate evidence (via email, us-mail, fax etc.). In this case, your final exam will have increased weight, i.e., 50%.
- Unexcused absence on the midterm will yield 0 point.

- Final (30%):
A missing final exam will be dealt with accordance to the university regulations on the incompletes and withdrawals.

All exams are closed book unless otherwise announced

2. Term Project (25%)
You will need to form a group for this purpose (size of 3-4). In this project, your group will need to write Requirement Specification Document for a given software project.

3. Term Project Presentation (15%)
Each group chooses any topic related to the project and give a presentation at the end of the semester. Details will be given at a later time.

4. Chapter Summaries (10 %)
After you read each chapter, you need to write about 2-3 pages (1.5 line spacing and 11 or 12 font size) of summary of chapter in YOUR words, so that it contains:
(part 1) important concepts of the chapter
(part 2) experience/application/opinions of the chapter.
You will need to turn in when the summaries are due.

NOTE:
We will be using Titanium for submission of term project and chapter summaries.
Late turn-ins will be accepted. However, there will be 10% automatic deduction plus 2% each day you are late (e.g., if you are late by 1 week (7days) = 10 + 12 = 22 % deduction).
The last day of acceptance is the day of the final exam.

Grading Policy:
Course assessment components will be given the following weights:
- Midterm exam - 20 %
- Final exam - 30 %
- Term Project - 25 %
- Presentation - 15 %
- Chapter Summary - 10 %

Course final grade will be assigned based on the weighted average of the above components in the following manner: (I will be using "+" and "-" system)
> 90   at least A-
> 80   at least B-
> 70   at least C-
> 60   at least D-

Topics Covered:

Will follow the book very closely with some additional materials provided

- **Introduction to Software Requirements**
- **Development of Software Requirements (SRS standard)**
- **Writing requirements to specific project types**
- **Requirement Managements**
- **Others related to Requirements**

SPECIAL NEEDS STATEMENT
If you have a disability or special need for which you are or may be requesting an accommodation, please inform me and contact the Office of Disability Support Services, located in University Hall 101, as early as possible in the term. For more information, the Office of Disability Support Services can be reached by calling (657) 278-3117 or visit their website at www.fullerton.edu/DSS/. Confidentiality will be protected.

ACADEMIC INTEGRITY STATEMENT
Students are expected to maintain a high standard of academic integrity. Policies on academic integrity will be strictly enforced. Familiarize yourself with the academic dishonesty policy, which can be found in the current student handbook or on the web at http://www.fullerton.edu/senate/documents/PDF/300/UPS300-021.pdf

EMERGENCY INFORMATION
It is important for students to have a basic understanding of the emergency response procedures of the University. Please read the Campus Emergency Preparedness information available at: http://emergencypreparedness.fullerton.edu