Syllabus - CPSC 490
Undergraduate Seminar in Computer Science

Instructor:
Dr. Lidia Morrison

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Course Schedule
Classes will be held on Thursday from 7:00 PM - 9:45 PM.

Office Hours:
I will be available after class on Thursday from 6:00 pm - 7:00 pm and by appointment. Required

Text Book:
None.

Course Description and Purpose:

Review of foundational computer science theories and principles, real-world application development methods and processes, and industry practices. Survey of modern computing technologies. Research methods. Identification of research or practical application problems. Writing and presenting a proposal for a capstone project.

The goal of this course is to prepare students to undertake research that results in a topic that leads to serving as the basis for their Senior Capstone Project, Computer Science (CPSC 491). Each student is required to complete selected topic proposal and demonstrate academic paper presentation skills in class.

Upon completion of the course, the students will be able to:
•Identify a project or research topic through a proper literature survey or existing methods/technologies in interested areas
•Synthesize/Analyze the necessary knowledge in the selected area
•Identify a practical application development or research problem
•Propose a practical solution for the problem

•Write an undergraduate project proposal
•Present the proposal.

Resource Material:

Software Engineering, A Practitioner's Approach by Roger S. Pressman and Bruce R. Maxim

Tutoring Center:

https://www.fullerton.edu/ecs/cs/resources/tutoring.php

Attendance Policy:

Attendance is very important to do well in this class and in order to complete your project successfully. Regularly meeting is mandatory.

Assessed Work Description:

1. Project Proposal: for final delivery, a detailed and completed project proposal is required to be uploaded in Canvas. The proposal needs to follow the template provided by the CPSC Department and must include a clear abstract, list of reference, hardware/software needed, and timeline. Competed proposal, needs to be at least 10 pages, formatted as following: 1.5 line, font, Time New Roman of at most 12 point. Proposal must include a suggestive title, abstract, motivation, related work, overall architecture, hardware and software needed; it needs to be submitted in Canvas and will be checked using Turnitin for similarity factor with existed published work. The similarity score must be below 25% to be considered for a grade.

2. Oral presentation: will be done in person and must include at least 16 slides to demonstrate in detail your project. Oral presentation PowerPoint slides need to be submitted in Canvas.

Assessed Work Description:

Assignments must be submitted via Titanium on or before the due date to be eligible for full credit.

Grading:

Your grade depends on how much work you put into completing your project or thesis work. Grades will be based on the following:

1. Undergraduate Project Proposal 75%
2. Attendance 10%
3. Orla Presentation 15 %

Course Grading:

Grades will be assigned as follows:
Range A (A- to A+) : >= 90%

Range B (B- to B+) : < 90% and >=80%
Range C (C- to C+) : < 80% and >=70%
Range D: < 70% and >=60%
F: <60%

Late Policies:

Due to the nature of this course, all homework and group projects will have penalties for late submissions.

Academic Dishonesty:

In regard to Academic Dishonesty please review the following link:
http://www.fullerton.edu/senate/documents/PDF/300/UPS300-021.pdf

Disabilities Accommodation:

If you have a disability that may qualify you for special accommodations in this course, you should contact: **(http://www.fullerton.edu/DSS/index.htm)**

Office of Disabled Student Services
University Hall 101
Phone: (657) 278-3117
TDD: (657) 278-2786
PO Box 6830
Fullerton, CA 92834-6830

Tentative Lecture Schedule:

Week 1: Introduction of the course/class
Week 2: Review of foundational computer science
Week 3: Overview writing and presenting proposal
Week 4: Selected proposal topic class presentation
Week 5: Research/drat proposal
Week 6: Research/drat proposal
Week 7: Research/drat proposal
Week 8: Draft proposal class presentation (1)
Week 9: Draft proposal class presentation (1)
Week 10: Research/drat proposal
Week 11: **Fall Recess - NO CLASSES**
Week 12: Draft proposal class presentation (2)
Week 13: Draft proposal class presentation (2)
Week 14: Finalize proposal
Week 15: Final proposal class presentation
Week 16: Final proposal class presentation