UNIVERSITY OF LA VERNE

COMPUTER SCIENCE AND COMPUTER ENGINEERING

CMPS 499: Senior Project

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| General Information | |
| ***INSTRUCTOR:*** | Dr. Seta Whitby |
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| ***OFFICE HOUR:*** | by appointment |
| ***STRUCTURE:*** | Theory and Hands on |

## Pre‑ and Co-requisites

This is the last course a Computer Science student will register for before graduating.

## Reading Material Recommended

* Turabian, Kate L. *A Manual for Writers* (6th edition). The University of Chicago Press
* Haag, Cummings, McCubbrey (2015), *Management Information Systems: For The Information Age,* 9th edition, McGraw Hill.
* DEWITZ, S.D, *Systems analysis and design, and the transition to objects*. New York, NY: The McGraw-Hill Companies, Inc. 1996

## Goals and objectives

## Mission

This course focuses on the process of representing data, turning these representations into a specification document, and creating an implementation design from that document. Its aims are to:

* Meet the majority of the objectives for the Association for Computing Machinery (ACM) course guidelines on Database Management Systems QS4), and
* Provide the student with a foundation for completing the requirements in the major.

## Themes

* The underlying theme for this course is integration. It should be understood that a common set of methods and principles couldn’t be applied to every systems development context. While the principles learned in all courses are generally applicable to any context, the student must be able to take a contingency view of the process. This way, it will be understood that different tools and skills are required for different design environments. For example, development of large‑scale record keeping systems may not require the same approaches as single‑user decision support systems. Our goal is to be able to take a contingency approach as we face each new problem domain.

## Class conduct

## Class Climate

The approach that I will use for this course takes the view that the instructor and students ***work in a collaborative effort*** that recognizes the uniqueness of each person. As such, we are all co‑producers in learning. The underlying assumptions are that individuals are capable of changing their behavior, and are responsible for what happens to them; and that one person can never assume responsibility for another person's change. This means that you must assume responsibility for learning and for the evaluation of that learning.

## Class Sessions

This course will be conducted as a set of workshops. The role of the instructor in this environment will be:

* to establish a framework and put together a set of materials for exploration,
* to provide knowledge and opinions about the process.
* to provide guidance during the process of doing projects.

**The role of the students will be to attend class, to participate in class workshops, and to be motivated to complete the project**.

## Outline

|  |  |  |  |
| --- | --- | --- | --- |
| ***Week #*** | ***Topic*** | Deadlines | |
| 1 | Initiation |  | |
| 2 |  | Proposal draft | |
| 3 |  | Proposal, Gantt chart | |
| 4 | Development | Progress report #1: Initiation report | |
| 5 |  |  | |
| 6 |  |  | |
| 7 |  |  | |
| 8 | Implementation | Progress report #2: Development report | |
| 9 |  |  | |
| 10 |  | | |
| 11 | Operation | Progress report #3: Implementation report | |
| 12 |  |  |
| 13 |  | Progress report #4: Operation report | |
| 14 | Final Presentation | Power Point presentation outline | |
| 15 |  | Final report | |

## Grading

## Requirements

The formal assignments for the course are as follows:

1. *Project* Students will complete an individual senior project throughout the semester. Your project will be one that you choose according to guidelines outlined in the detailed requirements. Students can petition to work in-groups, but each student must complete an individual portion of the project. **You must hand in a project proposal, three interim reports, presentation and a final report.**

## Grades

Each formal assignment will be given a letter grade according to a specified grading scheme. Although letter grades are associated with a 4.0 grading scale as defined in the University of La Verne catalog, for the purposes of this course, a 9-point scale will be used. An A+ will be worth 9 points, an A 8 points, and so on. Points will be weighted according to the percentages shown below. Weighted points will be summed, and then a course grade will be assigned based on this value. The maximum grade you can earn for the requirements defined above will be an "A" given that you submit high quality assignments, do effective presentations and discussion leadership, and participate consistently in discussions. You will be given a Departmental Honor title on your transcript if finish a high quality senior project and you are eligible for Departmental honors.

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| --- | --- | --- |
| # | Topic | Grade |
| 1 | Literature review documentation | 5% |
| 2 | Proposal | 5% |
| 3 | Progress report 1 | 10% |
| 4 | Progress report 2 | 10% |
| 5 | Progress report 3 | 10% |
| 6 | Progress report 4 | 10% |
| 7 | Presentation of project | 10% |
| 8 | Power point report | 5% |
| 9 | Final report | 35% |
|  | Total | 100% |

**Assignment #1 ‑ Project**

**Purpose**

The purpose of this assignment is to enable the student to development their senior projects.

**Requirements**

The project involves the following major sections. There will be **nine reports** required for this project.

1. The Proposal report will provide a description of the intended project.
2. Gantt’s chart for timeline of completion
3. Literature review.
4. ***Progress report #1: Initiation.*** Document the status of the project.
5. ***Progress report #2: Development*** Document the status of the project.
6. ***Progress report # 3: Implementation*** Document the status of the project.
7. ***Progress report #4: Operation and Maintenance.*** Document the status of the project.
8. The final report involves a combination of all of four interim reports plus more. **Refer to Turabian book for the format**.
9. PowerPoint presentation. See a sample at the end of this document. Include the sample of your presentation in one of the index of your report.

**Document Guidelines**

Project reports must be printed double‑spaced with 12‑point type and 1 inch margins.

**Grading**

Criteria for grading each report are included in the grading scheme.

Due Dates

Look at the schedule for deadlines.

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