# CSC495 - CSC/CTC 492 – Senior Design/Research Project
## Fall 2016

| Instructor | Mohsen Beheshti | E-Mail | MBeheshti@csudh.edu |
|---|---|---|---|
| Classroom | SAC2102 | Class Time | 4:00 PM– 5:15 PM  TR |
| Office | NSM A – 132 | Office Hours | TR     02:00  – 04:00 PM AND/OR by Appointments |
| Phone | (310) 243-3398 | URL | http://csc.csudh.edu |

**CATALOG  DESCRIPTION:** Selected Topics (3) – Advanced topics in computer science not covered by current course offering.

This is a senior design course for computer science majors. Students will do the following: computer system design; conceptual design methodology, design evaluation, total project planning and management techniques, design optimization, and system manufacturing cost considerations; Students will also work in group project; emphasis is placed upon students' activities as design professionals.

Students will be introduced to proposal writing, and literature searches and must complete an individual design project in this course, give a formal presentation and submit a bound research paper.

**PRE-REQUISITE:**           **Senior Standing and/or Consent of Instructor**

**PREREQUISITES BY TOPIC:**

**TEXTBOOK**:                none

**REFERENCE***:*           Articles

**COURSE GOALS**           How to research, write a proposal, set milestones, present
the work, deliver written report for the project, and learn to
meet the deadlines.

**SPECIFIC INSTRUCTIONAL GOALS:**

- Writing reports
- Writing summaries
- Giving presentations
- Conducting research

**COURSE OUTCOMES:**
Upon completion of this course, students should be able to do research regarding any computer science topics, create summaries of articles, make presentations, learn how to communicate with other team members, and complete the design, implementation, and the written report for the project..

**COURSE POLICIES:**
There will be many mini (10 minutes) presentations for the proposal, progress report, etc., and a final presentation given by students reflecting his/her work during the semester. The student needs to ask a faculty to become his/her advisor and two other faculty members as the committee members for his/her senior project. The student will meet with the advisor each week to update the advisor regarding his/her progress and to get feed backs from the advisor or the committee members. There will be a 25 to 30 page written report due by the end of the semester. The report will include the cover page, table of contents, introduction, background, the work, future work/conclusion, references, and glossaries as needed **make sure the final report is not in loose sheets**. The project should include an implementation part to support the project done by the student. The final presentation (30 minutes) will include the work and a demo of the program implemented by the student.

*Attendance:* **is expected and required**.  The student is responsible for materials missed during an absence, whether excused or not.  Classes will start at the prescribed time and will end at the prescribed time.  Excessive absences or tardiness will result in lowered grades.  I will be available during the posted office hours and you may make an appointment for times not posted.  The class roll will be called 2 minutes after the hour **OR** a sign-in sheet will be passed around at the beginning of class and once the sheet is returned no late additions will be made.  **YOU MUST BE ON TIME**.

*Presentations:*    There will be a series of presentations given by students to show their progress during the semester and a final presentation during the last week of the semester. Students need to schedule their final presentation day and time of day by verifying the date with their advisor, the committee members, and the Computer Science Department prior to the last week of the semester.

**Grading Breakdown:**
    Project (proposal, progress and written reports,
        Implementation, and presentations)      85%
    Attendance, class participation,
    Visiting lectures reports, ACM project     15%

**Grading Scale:**

| | |
|---|---|
| 90-100 | A |
| 80-89 | B |
| 70-79 | C |
| 60-69 | D |

Below 60      F

## GENERAL POLICIES:

## AMERICANS WITH DISABILITIES ACT

*CSUDH adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with temporary and permanent disabilities. If you have a disability that may adversely affect your work in this class, I encourage you to register with Disabled Student Services (DSS) and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until you register with the DSS. For information call (310) 243-3660 or to use the Telecommunications Device for the Deaf, call (310) 243-2028 or go to:*  [http://www4.csudh.edu/dss/](http://www4.csudh.edu/dss/)

## COMPUTER INFORMATION LITERACY EXPECTATIONS

*It is expected that students will:*
1. *Use Microsoft Word for word processing unless otherwise approved by the instructor,*
2. *Be familiar with using email as a communication tool and check your official campus email account at least every other day;*
3. *Be able to access websites and online course materials which may require Flash and other plug-ins;*
4. *Use the library databases to find articles, journals, books, databases and other materials;*
5. *Be able to create an effective PowerPoint presentation;*
6. *Be able to record audio (ideally video) to share with the instructor via the web; and*
7. *Have regular access to a computer and internet access for the term of this course.*

## ACADEMIC INTEGRITY

Academic integrity is of central importance in this and every other course at CSUDH. You are obliged to consult the appropriate sections of the University Catalog and obey all rules and regulations imposed by the University relevant to its lawful missions, processes, and functions. ***All work turned in by a student for a grade must be the students' own work.*** Plagiarism and cheating (e.g. stealing or copying the work of others and turning it in as your own) will not be tolerated, and will be dealt with according to University policy. The consequences for being caught plagiarizing or cheating range from a minimum of a zero grade for the work you plagiarized or cheated on, to being dropped from the course.

## BEHAVIORAL STANDARDS

Behavior that persistently or grossly interferes with classroom activities is considered disruptive behavior and may be subject to disciplinary action. Such behavior inhibits other students' ability to learn and an instructor's ability to teach. The instructor may require a student responsible for disruptive behavior to leave class pending discussion and resolution of the problem and may also report a disruptive student to the Student Affairs Office (WH A-410, 310-243-3784) for disciplinary action.

# COURSE OUTLINE

| Week | Topic | Note |
|---|---|---|
| 1 | Over View of the Course | |
| 2 | Topic presentation | Individual Project |
| 3 | Proposal Presentation | Individual Project |
| 4 | Progress Report | Individual Project |
| 5 | ACM Project | Group Project |
| 6 | Progress Report | Individual Project |
| 7 | Progress Report | Individual Project |
| 8 | Progress Report<br>ACM Project | Group Project |
| 8 | Progress Report | Individual Project |
| 9 | Progress Report | Individual Project |
| 10 | Progress Report | Individual Project |
| 11 | ACM Project | Group Project |
| 12 | Progress Report | Individual Project |
| 13 | Progress Report | Individual Project |
| 14 | Progress Report | Individual Project |
| 15 | ACM Project | Group Project |
| 16 | **Final Written Report and Implementation Due**<br>**Final Presentation Due** | |