

California State University Dominguez Hills
CYB590 – Master Project
Spring 2023

Instructor	Jianchao (Jack) Han	E-Mail	jhan@csudh.edu
Classroom	SAC 2103	Class Time	Sunday 5:00am-8:30pm
Office	NSM A133	Office Hours	Zoom by appointments

Course Description

This is a Master Project course for Cyber Security. Students will develop a cyber security related project, including project specification, project analysis and design, project implementation, project evaluation, project planning and management. Emphasis is placed upon students' activities as project development professionals.

Students will be introduced to proposal writing and literature searches. In this course students must complete an individual design project, formally and informally present the project progress report, and finally submit a project technical report.

Prerequisite

Senior Standing and/or Consent of Instructor

This is a required course for the program of Master of Science in Cyber Security.

Student Learning Outcomes

Upon completion of this course, students should be able to do research regarding any cyber security topics, create summaries of articles, write a proposal, set milestones, make presentations, practice communications with peers, learn to meet the deadlines, and complete the design, implementation, and the written report for the project.

Specifically, at the end of this course, student will be expected to be able to

1. specify project requirements and write project proposals,
2. search, review, and summarize literatures,
3. identify and analyze cybersecurity problems,
4. design, implement, and evaluate cybersecurity related projects,
5. communicate effectively both in oral and in writing with a range of audiences,
6. apply design and development technologies in the construction of cybersecurity systems of varying complexity.

Course Requirements

There will be ONE (1) project proposal report, ONE (1) project design report, SIX (6) progress reports, and ONE (1) final project report. The final project report should be about 30

or more pages, including the cover page, table of contents, introduction, background, the related work, project specification, design, implementation, experiments, future work/conclusion, references, and glossaries as needed.

There will be THREE (3) short presentations, including ONE (1) proposal presentation, ONE (1) design presentation, and ONE (1) final project presentation and demonstration.

GRADING BREAKDOWN:

- **Project artifacts:** **75%**
 - Proposal [10%]
 - Design report [10%]
 - Progress reports [20%]
 - Final report [35%]
- **Project presentations:** **25%**
 - Proposal presentation [5%]
 - Project design presentation [5%]
 - Project final presentation [15%]

Grading Scale:

94-100	A	90-93	A-
85-89	B+	80-84	B
75-79	B-	70-74	C+
65-69	C	Below 65	F

Course Tentative Schedule

Week	Topic	Note
1 (1/22)	Overview of the course	Meeting
2 (1/29)	Topic selection	
3 (2/5)	Topic selection	
4 (2/12)	Topic selection	
5 (2/19)	Topic determination	
6 (2/26)	Proposal Presentation	Meeting
7 (3/5)	Progress Report 1 due	
8 (3/12)	Progress Report 2 due	
9 (3/19)	Progress Report 3 due	
10 (3/26)	Spring Recess (campus closed)	
11 (4/2)	Project design presentation	Meeting
12 (4/9)	Progress Report 4 due	
13 (4/16)	Progress Report 5 due	
14 (4/23)	Progress Report 6 due	
15 (4/30)	Project final presentation and demonstration	Meeting
16 (5/7)	Final Project Report Due	

GENERAL POLICIES:

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.

STUDENT ACADEMIC APPEALS PROCESS

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, error, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

DEFINITION OF CHEATING AND PLAGIARISM

CSUDH is dedicated to a high standard of academic integrity among its faculty and students. In becoming part of the California State University academic community, students are responsible for honesty and independent effort. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit. (Read University Regulations - page 63 2003-2004 University Catalog)

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/>

RESOURCES FOR STUDENTS IN NEED

Students occasionally have financial difficulties. There are a number of resources on campus that may be available to you if you find yourself in need of food, shelter, or other help. Food pantries are located in LSU 121 and SCC 148. You can find these and other resources through *Toro Food Pantry* on ToroLink and here: <http://www4.csudh.edu/student-services/food-shelter-resources/index>