

EECE401 Senior Design I

CRN: 83550

Class hours: M 1 - 4 pm @ LKD 3015 Course website: www.mwfr.com/

Instructor:

Dr. Charles Kim (office: 3014 LKD) Office Hours: TW 1 – 3 ckim@howard.edu 202-806-4821

Course Goals

- Engineering design principles: “applying technical knowledge to meet people’s needs”
- Process of design to meet the needs.
- Team project - teamwork
- Professional communication
- Socially responsible engineering/design

Prerequisites or Co-requisites: Senior Standing (those who have acquired 90 or more credit hours of EE curriculum courses)

TEXTBOOK: Required (?): Vern Johnson and Reid Bailey, *Becoming a Technical Professional*, Kendal/Hunt Publishing Co. 3rd Edition. ISBN 13:978-0-7575-2765-4.

GRADING

Individual 25 %

Ethics Essay – 10%

Final Exam – 10%

Team Participation (graded by team leader) – 5%

Team 75%

Team Contract – 5%

Problem Statement – 10%

Design Requirements – 10%

Solution Design Presentation – 20%

Solution Design Report – 20%

Other Team activities – 10%

Final individual grade = (individual score) + (team score) *(peer evaluation point) + attendance (5%)

COURSE SCHEDULE (subject to change)

<i>Date</i>	<i>Topic</i>	<i>Assignment</i>
Week 1	Kick-off meeting	
Week 2	Introduction to Project	Assignment 1
Week 3	School Holiday	
Week 4	Design Process	Assignment 2 - Practice for writing problem statement
Week 5	Team and Teamwork	Team Contract
Week 6	Design Requirement	Problem Statement & Design Requirements
Week 7	Solution Generation	Section 1 of Solution Report
Week 8	Engineering Ethics	Ethics Essay
Week 9	Solution Generation -- continued	Section 2 of Solution Report
Week 10	Intellectual Property Right	
Week 11	Team Presentation	Section 3 of Solution Report
Week 12	Life Long Learning	Section 4 of Solution Report
Week 13	Peer Evaluation	Final Solution Report
Week 14	Solution Presentation 1	Team presentation
Week 15	Solution Presentation 2	Team presentation
Week 16	Final Exam	