EECE401 Senior Design I (CRN 83550):   kick-off class

Class hours: M 1 - 4 pm @ LKD 3015 Course website: www.mwftr.com/
    Note 1: Actual Start Time (to accommodate time-conflicting class): _____
    Note 2: In-class hours: 2 - 3 per week
    Note 3: Outside class hours: 2 – 3 hours per week

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

Course Goals: Problem solving projects
- Engineering design principles: "applying technical knowledge to meet people's needs or to solve the problems"
- Process of design to meet the needs or to solve the problem
- Working under technical and non-technical constraints
- Socially responsible engineering/design
- Engineering ethics
- Team playing and teamwork
- Professional communication: technical essay, presentation, etc.

Prerequisites or Co-requisites: **EE/CpE** Seniors (those who have acquired 90 or more credit hours)

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 CRITERIA

Individual 30 % (+ 5% extra)	Team 70%
Ethics Essay– 10% Final Exam – 10% Team Participation (graded by team leader) – 10% Attendance with On-time arrival – 5%	Team Contract – 5% Problem Statement – 10% Design Requirements – 10% Solution Design Report– 15% Solution Design Presentation– 20% Component Level Blueprints – 10%
Final individual grade = (individual score) + (team score) *(peer evaluation point) + attendance (5%)	
Grades: A (>=90), B (>=80), C(>=70), D(>=60), F(<60.00)	

COURSE SCHEDULE (subject to change)

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