Instructor:  Dr. Jing-Chiou Liou  
Phone: (908) 737-3803  
Room: HH217  
Email: jliou@kean.edu

Class Room:  HH 221  
Class Hours:  Monday & Wednesday 11:00 AM – 12:15PM
Office Hours:  Monday – Thursday. Details provided separately.
Instruction Method:  Lecture & Lab.

Textbook:  
PowerPoint slides will be used in class.

Grading:  
Homework (8+1) 20%  
Midterm 25%
Final 25%  
Lab. (6 reports) 30%

Course Description & Objectives:  
This course is a study of computing systems to provide students fundamental concepts on computer organizations and architectures.

Upon completion of the course, students will be able to analyze digital logic systems that serve as the building blocks of any computing system, understand and utilize assembly language in performing computing routines, subroutines, and I/O control. In addition, students will learn other computer structures in a high level language and programming methodology.

Homework Assignments (HAs) and Lab. Report (LRs) submission policy:  
- Students are expected to submit HA and/or LR in the following week of the session, unless is mentioned otherwise.
- Late submission is allowed for up to a week delay, with a 10% deduction in grade.

Important University Dates:  
9/9/10: Last day to withdraw w/ 100% refund  
9/16/10: Last day to withdraw w/ 75% refund

Academic Integrity Policy:  http://www.kean.edu/forms/AcademicIntegrity.pdf
Tutoring and learning Support services:  http://www.kean.edu/~castutor
**Schedule:**

9/8: Overview: Introduction to Computing Systems
9/13&9/15: Bits, Data Types, and Operations
9/20&9/22: Digital Logic Structures
9/27: Von Neumann Model
9/29: Lab Introduction: Procedures/Safety
10/4: The LC-3
10/6: Lab 1: A Simple LC-3 Program
10/20: Programming
10/25: Lab 2: Problem Solving with the LC-3
10/27&11/1: Course Review
11/3: Midterm Exam
11/8: Midterm Review
11/10: Assembly Language - I
11/15: Lab 3: A Simple Assembly Language Program
11/17: Assembly Language - II
11/22: Lab 4: Encryption and Decryption - I
11/24: Lab 4: Encryption and Decryption - II
12/29: I/O
12/1: Trap Routines and Subroutines
12/6: Lab 5: I/O Routines - I
12/8: Lab 5: I/O Routines - II
12/13: Stack
12/15: Course Review
12/20: Final Exam