CPS 5995-01 CIS Capstone - Spring 2015

Instructor: Dr. Jing-Chiou Liou  
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http://www.kean.edu/~jliou/classes.htm

Class Room: W411

Class Hours: Wednesday 1:55 – 4:25PM

Office Hours: Monday – Thursday. Details provided on web site.

Instruction Method: Lecture & Lab.

Textbook: 
Material at your disposal; CS/TECH texts, library references, internet, …

Grading:  
1) quality of project milestones – 50% (requirements, design and testing documents, and implementation), 2) Mid review – 25% (progress report and presentation), and 3) final project report and presentation – 25%

Course Description & Objectives:  
This course is a computer technology implementation (or special topic research) that integrates theory and practice in design and development of a working system or prototype. The student will choose a project and then research, design a solution, code, test, document, demonstrate and present results to the class. The instructor must approve the project.

In addition to the implementation and integration aspects of the course, a major component is project planning, documentation and presentation. Weekly status reports will be delivered for all projects. Project milestones will be presented to the class for all projects (requirements review, design review, test plan review, …). Students are expected to participate in a constructive manner by asking questions and offering suggestions during class to colleagues. Projects will be presented to the campus community the last two weeks of class. Computer science majors/minors and faculty will be invited to attend.

Upon completion of the course, students will be able to:

A. Research, design and develop enterprise level information systems using enterprise solutions, software engineering techniques and project management techniques.

B. Apply knowledge acquired from 18 graduate credits and create computer systems using modern software development tools in a team environment.

C. Interact cooperatively and constructively in pairs, or small groups.

D. Review the trends and issues facing enterprise systems development.
Attendance:  Students are expected to attend all classes and will be held responsible for all material covered during each class.

Important University Dates:
The Kean Academic Calendar is online at http://www.kean.edu/KU/Academic-Calendar.


Tutoring and learning Support services:

Schedule:
Week of 1/21: Overview: Project objectives and outcomes
Week of 1/28: Project High-Level Description (HLD) Development
Week of 2/4:  HLD Review/Baseline and Requirements Development
Week of 2/11: System Requirements Document (SRD)
Week of 2/18: SRD Review/Baseline and System Design
Week of 3/4:  Coding and Test Plan (TP) Development
Week of 3/11: Coding and TP Review
Week of 3/25: Code Review
Week of 4/1:  Unit Testing (UT)
Week of 4/8:  Integration Test (IT)
Week of 4/15: IT and System Test (ST)
Week of 4/22: ST and Quality Report
Week of 4/29  ST and Quality Report
Week of 5/6:  System deployment and Final Presentation
Week of 5/13: Final Presentation