CEN 4010 – Software Engineering I, Fall 2007
Dr. Xudong He
M, W & F 11:00 – 11:50 am, ECS 145; Office Hours: M & W 1:00 – 3:30 pm, ECS212B
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Prerequisites
- COP 3530 – Data Structure is required for this course.
- A working knowledge of at least one modern high-level programming language is very helpful. Java will be used as the project implementation language.

Course Outcomes
- Be familiar with the Software Development Life Cycle
- Master the techniques to gather and specify the requirements of a medium-size software system using UML
- Master the techniques to design and implement a medium-size software system
- Be familiar with software validation and testing techniques
- Be familiar with software documentation
- Be familiar with working in a small software development team

Course Content
- Software Life Models
- Requirements Analysis Methods
- Software Design Methods
- Implementation Strategies
- Software Testing Techniques

Project
The semester project is done by groups consisting of 3 to 4 students each. The list of project statement and detailed requirements will be given to the individual groups once the groups have formed. Each group will have to give 2 presentations in class, and demonstrate the running system.

Grading
Class Attendance	5%	(will be taken during each class)
Midterm Exam	20%	(11:00 – 11:50am, Oct. 12, Friday)
Project	35%	(Detailed deliverables and dates will be given)
Final Exam	40%	(9:45 – 12:30pm, Dec. 12, Wednesday)

The grading scale is: A:90 | A-:87 | B+:84 | B:80 | B-:77 | C+:74 | C:70 | C-:67 | D+:64 | D:60 | F: <60.

Text
- Object-Oriented Software Engineering – Using UML Patterns, and Java (2nd edition) by Bernd Bruegge and Allen Dutoit, Prentice Hall, 2004.
- The text will be supplemented with substantial material from other books and papers on software engineering.

System – Undergraduate Lab (ECS 241)
- Windows & Unix workstations and servers
- Software: Rational Rose, Jbuilder etc.

Code of Academic Integrity
http://www.fiu.edu/~oabp/misconductweb/2codeofacainteg.htm