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
- 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