Course Description: Application of computer programming and system development concepts, principals and practices used to complete a comprehensive system development project. A team approach used to analyze, design, and document realistic systems of moderate complexity. Use of project management methods, project scheduling and control techniques, formal presentations and group dynamics in the solution of information systems problems. Development of a database to support the system.

Rationale: To provide the student with development experience in an actual working environment. Utilize skills encompassing the concepts of systems analysis and user interaction in the development of application systems.

Course Goals: Gain experience interviewing users and determining system requirements. Develop system diagrams and models to document the system and as a tool used in obtaining user approval. Design, code, and test the system using the Fujitsu COBOL and Power COBOL compilers

Competencies:
1. Utilize user interviews and observation to determine system requirements.
2. Utilize system modeling and diagramming techniques to document the system and as a tool used in obtaining user approval.
3. Operate as a team member in the development a systems project.
4. Code and document the project based on systems design.
5. The utilization of program test cases and program debugger in error determination and resolution.

Text: COBOL from Micro to Mainframe
Preparing for the New Millennium
Planed Schedule:
01/10/2005   Project Introduction and Discussion
01/12/2005   Development of Project Plan
              Structured COBOL Development Techniques
01/19/2005   GUI COBOL Applications
01/26/2005   Object-Oriented COBOL
02/02/2005   Submit Analysis and Design as a formal proposal to the class
02/09/2005   Begin System Development
04/06/2005   Programming Completed
              Development of Test Cases
04/11/2005   Begin System Testing
              Submit System Documentation
05/05/2005   10:00am Final Project Due
              Project Documentation Due

Course Duration: 16 weeks

Grade Components: Systems Analysis/Requirement Determination 200
                  Program Development 200
                  Program Testing 200
                  System Documentation 100
                  Total Points Possible 700

Grading Scale: 90% - A, 80 % - B, 70% - C, 60% D, Below 60% - F

Attendance Policy: Attendance will be taken on a daily basis. There are no excused absences, regular attendance is mandatory if the student hopes to make normal progress. It is the responsibility of the student to make up any work that is missed, whatever the reason for the absence.

The MVC attendance policy is as follows: Any student missing more then 50% of class at any given point in time during
the semester or two consecutive weeks will be dropped from that class and a Withdrawal Fail grade will be assigned.

Assignments: **No Credit Will Be Given To Late Work**
All assignments are to be completed and submitted on time with no excuses. Any student that is aware they will be missing class on the date an assignment is due needs to meet with the instructor **Prior** to missing class to make other arrangements.

Extra Help:  The student is encouraged to seek help whenever it is needed. I will be available during my posted office hours or by prior arrangement.

Bibliography:  COBOL from Micro to Mainframe
Preparation for the New Millennium
Robert T. Grauer, Carol Vazquez, Arthur R. Buss
Prentice Hall, 2000

Mastering COBOL
Year 2000 and Other Legacy Code Solutions
Carol Baroudi
Sybex, 1999