Course Description: A continuation of CS170. Emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business oriented applications using COBOL. Includes coverage of sequential and random access files and processing techniques and development of programs and systems for batch and interactive environments.

Rationale: To provide the student with experience in developing more complicated business systems in order to prepare them for an entry-level position as a programmer.

Course Goals: To examine the value of both sequential and random processing, and determining which type of processing will best meet the needs of the business application. Develop structured code utilizing the principals of the system development life cycle.

Competencies:
1. Utilizing structured programming techniques when designing business systems.
2. Design and develop programs using single and multiple level tables.
3. Utilize the COBOL sort verb to arrange data
4. Utilize ISAM and VSAM index file processing.
5. Utilize subprogramming techniques.

Text: COBOL from Micro to Mainframe
Grauer, Villar, and Buss
Prentice Hall Publishing
Planed Schedule:
08/21/2006  Review Syllabi
            Chapter 11 Introduction to Tables   Pages 301 – 330
08/23/2006  Program I Assigned
08/30/2006  Chapter 12 Table Lookups   Pages 331 – 362
09/01/2006  Program I Due
09/08/2006  Chapter 13 Multilevel Tables   Pages 363 – 402
09/13/2006  Program II Assigned
09/18/2006  Chapter 14 Sorting   Pages 403 – 434
09/22/2006  Program II Due
09/27/2006  Chapter 15 Control Breaks   Pages 435 – 474
10/04/2006  Program III Assigned
10/06/2006  Chapter 16 Subprograms   Pages 475 – 514
10/13/2006  Program III Due
10/16/2006  Chapter 17 Sequential File Maintenance   Pages 515 – 548
10/25/2006  Chapter 18 Indexed Files
            Program IV Assigned
11/03/2006  Chapter 19 The year 2000 Problem
            Program IV Due
11/13/2006  Chapter 20 Object Oriented COBOL   Pages 603 – 642
11/15/2006  Program V Assigned
11/27/2006  Due
11/29/2006  Final Program Assigned
12/08/2006  1:00 Final Exam
            Final Program Due
Course Duration: 15 weeks

Grade Components: 6 Programming Projects/Exercise’s (100 Points Each) 600
Total Points 600

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

***** NO LATE WORK WILL BE ACCEPTED AND NO MISSED
***** TEST CAN BE MADE UP. IF YOU ARE AWARE YOU WILL
***** BE MISSING CLASS ON THE DAY A TEST IS GIVEN OR
***** OR WHEN AN ASSIGNMENT IS DUE YOU NEED TO MAKE
***** ARRANGEMENTS PRIOR TO THE TEST/DUE DATE.

Attendance Policy: Attendance is 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 than 50% of class at any given point in time during the semester will be dropped from that class and a Withdrawal Fail grade will be assigned. If a student misses two consecutive weeks of class they will be administratively withdrawn from class. If a student is administratively withdrawn after the sixth week of class then they will receive a WP or WF as a grade. If you intend to withdraw from a class please see your advisor. Do not count on this policy to automatically withdraw you from the class.

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
Robert T. Grauer, Carol Vazquez Villar, and Arthur R. Buss
Prentice Hall Publishing 2000

Mastering COBOL
Year 200 and Other Legacy Code Solutions
Carol Baroudi
Sybex Publishing 1999