Course: CS350-1 Advanced Procedural Programming

Semester: Fall 2010
Time: 1:00 – 1:50 MWF
Hours: 3
Location: SC010

Instructor: Assoc. Professor Clause
E-mail: clauses@moval.edu
Office phone: (660)831-4225
Office: SC015
Office hours: 8:00 – 3:00

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.

Prerequisites: CS170, CS250

STUDENT LEARNING OUTCOMES
1. Use of Pointers and Recursion to develop computer solutions.
2. Design and develop algorithms in the C computer language.
3. Utilize Data Structures to develop a system that will operate efficiently and accurately.
4. Utilization of algorithms to perform efficient sorting and searching of data.

ASSESSMENT OF STUDENT LEARNING OUTCOMES
The student will be assigned five programs where they will be required to utilize the techniques discussed in class to develop a computer program. These programs will be evaluated for correctness and accuracy.

REQUIRED TEXTS
C Programming A Modern Approach 2nd Edition
K.N. King
Norton 2008

GRADING POLICY AND PROCEDURES
Grade Components:
5 Programming Projects/Exercise’s (100 Points Each) 500
Total Points 500

Grading Scale: 90% - A, 80 % - B, 70% - C, 60% D, Below 60% - F
All programs will be evaluated for completeness and correctness based on the requirements stated in the project outline.

***** 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 when an assignment is due you need to make arrangements prior to the test/due date.

TENTATIVE SCHEDULE
08/23/2010  Review Syllabi
            Chapter 10 Program Organization  Pages 219 - 240

08/30/2010  Chapter 11 Pointers  Pages 241 - 256

09/08/2010  Chapter 12 Pointers and Arrays
            Program I Assigned

09/15/2010  Chapter 14 The Preprocessor  Pages 315 – 348

09/20/2010  Program I Due

09/22/2010  Chapter 15 Writing Large Programs
            Program II Assigned  Pages 349 – 376

09/29/2010  Chapter 16 Structures, Unions, and Enumerations
            Program III Assigned

10/04/2010  Program II Due

10/08/2010  Chapter 17 Advanced use of Pointers
            Program III Assigned  Pages 413 – 456

10/20/2010  Chapter 18 Declarations
            Program III Due  Pages 457 – 482

10/27/2010  Chapter 19 Program Design  Pages 483 – 508

11/05/2010  Chapter 20 Low –Level Programming
            Program IV Assigned  Pages 509 – 528

11/15/2010  Chapter 21 Standard Library  Pages 529 – 538

11/19/2010  Chapter 22 Input/Output
            Final Program Assigned  Pages 539 – 588
FINAL EXAM
12/08/2010  Final Program Due

OPTIONAL INSTRUCTOR POLICIES

Instructors Attendance Policy: Any Student that misses 5 classes will have his/her grade dropped 1 letter grade, A student missing 10 classes will receive a failing grade for the course.

STUDENT CODE OF CONDUCT
It shall be the responsibility of every student enrolled at Missouri Valley College to support the academic integrity of the institution. This applies to personal honesty in all aspects of collegiate work, all student records, and all contacts with faculty and staff. Academic dishonesty will not be tolerated.

It shall also be the responsibility of every student enrolled at Missouri Valley College to be respectful of the right of other students, staff, and instructors to ensure a safe, peaceful atmosphere conducive to the educational goals of an institution of higher learning. Rude or disruptive behavior will not be tolerated.

Student actions that do not adhere to the MVC Student Code of Conduct will be addressed according to College policies regarding academic dishonesty and disruptive behavior. Students who exhibit dishonest, disruptive, or disrespectful behavior risk suspension or expulsion from the institution.

ACADEMIC DISHONESTY
Faculty create an environment conducive to honest student work through clear communication of expectations. In the case of suspected academic dishonesty, the faculty member deals with and documents the situation as they deem appropriate. Each documented incident is put in the student’s file in the office of the Chief Academic Officer. Documentation will include the student response to the incident. After three offenses, the CAO, the faculty member(s), and the student meet to discuss the consequences. Consequences include, but are not limited to, course failure or dismissal from school.

ATTENDANCE POLICY
Attendance is expected and required at each class meeting.

Any student who misses two consecutive weeks of class or has missed 50% of class periods by mid-term may be administratively withdrawn from class. If the withdrawal takes place within the first 6 weeks of class, the student will receive a grade of “W”. If the withdraw takes place after the 6th week of class, the student will receive a “WF” or “WP”. The student will be notified of this action by the Registrar’s Office. Readmission will be considered only for extenuating circumstances as approved by the Chief Academic Officer and Registrar. In such cases, where readmission is approved, a readmit fee of $350 will be charged. If a student drops below full-time status of 12 hours, financial aid may be adversely affected. Resident students dropping below 12 hours will be asked to move out of campus housing.

ADA STATEMENT
The College seeks to comply fully with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The ADA Coordinator works with the programs to assist the faculty in understanding and implementing accommodations.
Students with disabilities should have documentation of their disability sent to the campus ADA coordinator, Jamie Gold, Baity Hall, Room 206, 831-4170, and set up an appointment as soon as they arrive on campus. Failure to do so could delay accommodations. After proper documentation, reasonable efforts will be made to accommodate students’ needs. If you have any questions about how to initiate this process, please contact your instructor.