CSC 220
C/C++ Language Programming

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COURSE CREDIT: 3 hrs. credit
PREREQUISITES: CSC 116

OFFICE HOURS: MWF 9:00-10:30; TR 2:00-3:30; other times by appointment

TEXT: Practical C++ Programming, 2nd ed., Steve Oualline

DESCRIPTION: A study of the syntax and features of the C and C++ programming languages. C++ is a hybrid language, providing support for structured programming and object-oriented programming. We will be looking at C++ is primarily in the object-oriented paradigm as much as possible. The C programming language will be studied as a sub set of the C++ language. We will learn the syntax of both languages and programming conventions.

RATIONALE: This course is an integral part of the Computer Science program at Mississippi College. C and C++ are widely used in industry, and in other courses later in the CS curriculum. After completing this course, the student will be able to read and write non-trivial programs in C or C++, and understand some of the strengths and weaknesses of these languages.

EVALUATION: The instructor reserves the right to make adjustments as necessary.
Tests: There will be a two exams worth 100 points each.
Assignments: There will be a number of programming assignments weighted for 300 points.
Final Exam: There will be a comprehensive final examination given at the time specified by the college. This examination will be worth 100 points.

Grading Scale: 540 - 600 points A 360 - 419 points D
480 - 539 points B 0 - 359 points F
420 - 479 points C

Note: The student is expected to keep copies of all assignments. All graded work that is not returned to the instructor, should be retained by the student. If there were to be any question later about your grade, you would be expected to show these papers or provide a copy of the assignment.
CLASS ATTENDANCE:
The student is expected to attend classes. Regulations for class attendance are given in the Class Schedule. Remember in a MWF class, 12 absences is an automatic F. **Three tardies counts as one absence in this class.** (See the Mississippi College catalog).

MAKE-UP WORK & TESTS:
Students are expected to take tests on the day they are assigned. However, it is the student's responsibility to contact the instructor in case of an emergency illness or death in the family before the test. At that time the student and instructor will agree on a time for the make-up exam. This time should be within 2 days of the missed test. Assignments are to be turned in on the day they are due!! All work is due at the beginning of the class period. Any work not turned in will lose 10% credit for each school day **until the third day**. The due date at the beginning of class is day 1. No work will be accepted after the third day. Under no circumstances will work be accepted after the assignment has been graded and handed back in class. Laboratory assignments not completed during the period are due before the next laboratory meeting. A missed laboratory can be made up at a special laboratory session at the end of the semester.

ACADEMIC INTEGRITY:
This statement on academic honesty in computer science courses is an addendum to the Mississippi College policy 2.19 found at http://www.mc.edu/publications/policies/academic/219.doc. In a computer science class, individual effort is expected. Student misconduct not only includes cheating on tests, but also extends to copying or collaborating on programming assignments, projects, lab work or research unless otherwise specified by the instructor. Using other people's accounts to do your work or having others do your work is prohibited. Close proximity in lab does not mean collaboration is permitted. **NOTE:** Discussing logical solutions to problems is acceptable, exchange of code, pseudocode, designs, or procuring solutions from the Web, other texts, the Internet or other resources on or off campus is not acceptable. **First offense:** grade of 0 for **all** parties involved unless the "guilty" party can be determined as well as any punishment deemed necessary under policy 2.19. **Second offense:** grade of F in the course as well as any punishment deemed necessary under policy 2.19.

SPECIAL ACCOMMODATIONS:
If you need special accommodations due to learning, physical, psychological, or other disabilities, please contact Dr. Buddy Wagner in the Counseling and Career Development Center. He may be reached by phone at (601) 925-3354 or by mail at P. O. Box 4016, Clinton, MS 39058.

DROPPING A COURSE: **LAST DROP DATE - March 28**
Students cannot withdraw after this date with a W (passing) unless the three following criteria are met:
- Extenuating circumstances (clearly outside the student's control)
- Passing the course at the time of withdrawal
- Does not have excessive absences at the time of withdrawal

**NOTE:** Dropping after the THIRD (3rd) WEEK will result in a grade of W appearing on your permanent record (transcripts). See http://www.mc.edu/publications/policies/academic/213.doc
Exam Dates

Exam 1 ................................................................. March 3

Exam 2 ................................................................. April 2

Final Exam, 11:00am ................................................ May 2

Tentative Topics

C Topics

Lexical Structure.
Control Constructs
Data types
Operators
Expressions
Functions and parameter passing.
Structures and unions
I/O.
Pre-processor basics.
Character functions.
Arrays and pointers.
Strings.
Dynamic memory allocation.
Standard libraries.
Shared variables and storage classes.

C++ Topics

Lexical Structure
Member functions and variables
I/O.
String facility.
Message passing
Classes and objects.
Inheritance
Polymorphism.
Templates.
Standard libraries.