COMPUTER SCIENCE 2

Course Introduction

C++ Review

Visual Studio

Today's Topics

- Course Goals

- Policies & Procedures

Prerequisites

- CMPS 147 should have taught you:
  - Variables
  - Arithmetic, Boolean, Logical Operators
  - Conditional Execution (i.e. if statements)
  - Loops (i.e. for and while loops)
  - Functions
  - Arrays
  - What else? (Files, Pointers, …)

Course Goals

- You will learn:
  - the **rest** of the C++ syntax
  - how to create **quality** code
- As the complexity of our programs grow, so does the C++ syntax:
  - Pointers
  - Classes and Objects
  - Templates
  - Polymorphism
  - Standard Template Library

CMPS 148

What to expect

- The first few weeks will review the basics of C++
  - Chapters 1-6

- You will be writing **a lot** of code
  - You don't learn to program by reading a book or watching me…

- Tutoring will likely be available… *but be warned..*

Grading

- Attendance & Participation   5%
- In-Class Labs   10%
- Homework Assignments   25%
- Exam 1   15%
- Exam 2   20%
- Final Exam   25%

Attendance/Participation

- Attendance is absolutely critical
  - Recorded at beginning of class
  - If you are not here when I take attendance, you are **absent.**

- Participation
  - **<u>Attentiveness</u>**
  - Answering and Asking Questions

In-Class Labs

- Periodically you will be given programming assignments in class

  - Graded 0-10
    - Labs are to be turned in by the next class (6:30pm)
    - **No late labs are accepted, under _any_ circumstances.**

Homework Assignments

- Programming assignments will be given roughly once every 2 weeks:
  - You **must** work alone
  - 10 point penalty per day late

- Assignments will be turned in electronically
  - Submission format (file types, filenames, etc.) will be given for each assignment

Homework Assignments

- General grading guidelines
  - Unable to compile: NO CREDIT
    - Program crashes on normal input (at least 50 pts off)
    - Program crashes on exceptional input (10-20 pts off)
    - Program runs with erroneous output (varies)
    - Not following directions (solves a different problem) - penalty varies.
    - Anywhere from 5-25 point penalties for poorly designed / formatted code.

Homework / Lab Guidelines

- Work together?
  - Labs: Sure.
  - Homework: **NO** - automatic 0 on first offense, automatic F on second offense
    - 0's and F's are given to **both** parties, no matter what.

- Turning in working programs:
  - Never turn in a program that doesn't't compile - see me first.
  - You must ALWAYS send .h and .cpp files
    - Be careful - there are many files…

Exams

- You will have 2 exams + Final:

- Exams will take entire period
  - Open Book/Notes/Computer
  - Must be done on **lab computer**

- Will consist of approx. 70% programming, 30% question/answer

- Final Exam will be **comprehensive.**

Moodle

- All lecture notes and homework assignments will be posted

  - Lecture notes are not complete - you will still need to take notes!

  - You will turn in homework electronically
    - Grades for each assignment should be posted within a week.

Contact Information

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