

# 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

# 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
  - ▣ **Attentiveness**
  - ▣ 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 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**.

# appiversity



- 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



- Office Location: G 315
- Office Phone #: 201-684-7726
- Office Hours: Wednesdays 4-6pm or by appointment
- Email: [sfrees@ramapo.edu](mailto:sfrees@ramapo.edu)
- Course Web Site: <http://www.appiversity.com>