Why Computer Science?

- It's exciting
- It's lucrative
- It's fun (sometimes!)

Instructor

Russ Wakefield
- cs150, Section 001, MWF 10:00 - 10:50pm, Clark A206
- Office: CSB 240
- Email: Russ.Wakefield@colostate.edu
- Office hours: 10-11:30 on Thursdays
- Teaching assistants on syllabus.
Curriculum

- C1: Languages, Computers, Operating Systems
- C2: Identifiers, Variables, Expressions, Operators
- C3: Conditionals, Booleans, Logical Operators
- C4: Math Functions, Characters, Strings
- C5: Loops: while, do/while, for
- C6: Methods: Parameters, Return Values
- C7, C8: Single Dimensional Arrays
- C9: Objects and Classes
- C12: Exceptions and File Input/Output

Course Structure

- The course is run from the course website
  http://www.cs.colostate.edu/~cs150
- Let’s go look at it:
  - Personnel (Instructors, TAs)
  - Syllabus / Policies
  - Programs / Resources
  - Checkin / Canvas
  - Most of all: Schedule, your weekly activities

Java Programming
A century ago, university education was revolutionized by the advent of textbooks. Today, the modern web — with the recent emergence of HTML5, the cloud, ubiquitous WiFi, and low-cost laptops/tablets — empowers a new revolution. zyBooks is pioneering a new kind of learning content, created specifically for the modern web. A zyBook is web-native interactive content that helps students learn challenging topics, with auto-grading that saves instructors time and leads to better-prepared students in class — putting the fun back in learning.

Resources: Textbook

Resources (optional): Textbook

This book is required for CS163/4 and CS165, if you plan on continuing, it is worth investing.

Resources: Piazza

- Discussion board
- Used for communication with the teaching staff and with other students
Resources: Help Desk

- CS120A
- Assistance with Programming Assignments
- Sun – 4-8pm
- Mon-Thurs – 10am-6pm
- Fri – 10am-4pm
- Sat - Closed

Resources: iClickers

- Register your ICircle on Canvas by Friday of Week 1
- Bring your clicker to every lecture!

Grading Criteria

- Your grade will be based on:
  - Exams: 60%
    - 1st midterm: 15%
    - 2nd midterm: 15%
    - 3rd midterm: 15%
    - Final exam: 15%
  - Programming Assignments: 10%
  - Zybooks Assignments: 10%
  - Lab Assignments: 10%
  - In Class / Online Quizzes (Canvas/iCircle): 10%
Grading Policy

- If you think you have been graded unfairly, visit the cs150 help desk for an explanation.
- If you cannot resolve the problem, email the instructor / teaching assistant.
- All grades and exams are returned within one week of the due date (usually even faster).
- Complaints about grades must be made within two weeks of when the grade is released.

Programming Assignments

- All programming assignments are auto-graded.
- You will be introduced to the auto-grader in the Wed. lab.
- We will be using full testing this semester, so you should be able to maximize this activity.

Recitations

- Each recitation is worth 4 points
  - 1 point for attending the recitation
  - 3 points for successfully completing the lab during recitation hours
  - 3 points for showing a completed lab at the beginning of the next recitation. This MUST be done in the first 10 minutes of class.
IClicker Quizzes

- Given in lecture
- Requires you bring your Iclicker to lecture every day
- Used to query:
  - Previous lectures
  - Current lectures
  - Peer instruction

Communications

- Talk with your teaching assistant before or after labs, at help desk, or during lab hours.
- Talk with your instructor before or after lectures or during office hours.
- Email your instructor directly only if privacy is needed (health issue, staff complaint, etc.)
- Do not attach comments to Canvas, use the Piazza bulletin board instead.

Late Policy

- Every assignment lists a due date
  - Almost always on Tuesdays at 6pm
  - Full credit requires meeting this deadline
- Every assignment lists a late date
  - Late submissions have 20% penalty
  - After this deadline, no credit is given
- Exceptions only for excused absences
  - Medical emergencies, family emergencies, with documentation
  - If an emergency happens, email your instructor right away
Getting Help

- Web Sites:
  - www.cs.colostate.edu/~cs150
- Lectures, Recitations, Lab Hours, Help Desk
- Lab operators (general questions)
- Office Hours (see syllabus)
- Tutors, Friends, Consultants (be careful)
- Online Textbook, Internet

Academic Integrity

- All assignments, labs, quizzes, exams are solo
  - Unless otherwise specified
  - No notes, books, internet, other people
  - You may get help from course instructors and TAs
  - You may discuss concepts with other students, but:
    - Never share code with another student
    - Never copy code from another student
    - Never let anyone else type in code for you
- Know the department academic honesty code!

Lecture Expectations

- Come to class
  - Attendance predicts success
- Be active, not passive:
  - Take notes, Ask questions
- Be prepared
  - Do reading assignments before the lecture
- Be on time
  - Lectures start and end on time
Lecture Expectations

- Cell phones off or on vibrate-only
  - If you need to answer, leave the room first
- Laptops for note taking or coding!
  - No games, audio, video, inappropriate websites
- Respect your colleagues
  - No snide or rude comments
  - No comments on abilities
  - No extended conversations

Lab Expectations

- Use the Linux Lab – COMSC 120
  - Not the Windows Lab – COMSC 110
  - No uncovered drinks and no food
- Lab operator on duty during day
  - You can ask then general questions
- Treat the lab as a professional workplace
  - No disparaging comments
  - No loud/rude/distracting behavior
  - Professional comportment at all time
  - No sexual harassment of any sort, not ever!

Practical Matters

As a student in this class...

- You have CS department email:
  - Your address is eid@cs.colostate.edu
  - Automatically forwarded to CSU email
  - You should read this mail regularly
- You have an account of CS systems:
  - CS systems not the same as ACNS machines
  - Your RamCard provides access to Linux lab
  - Same as the EID that you use to login to RamWeb
  - Password is your CSU ID, you should change it!
Respect

We should all respect each other

- Instructor / TA to student
- Student to instructor / TA
- Student to student

Reality

A student asks a roommate, “Could you please go shopping for us and buy one carton of milk and, if they have avocados, get six.” A short time later, the roommate returns with six cartons of milk. “Why did you buy six cartons of milk?” asks the student. The reply: “They had avocados.”

Reader’s Digest, September 2013

This is exactly what your Java program will do, because computers do what you ask them to do, not what you want them to do!

Motivation

Most Popular Coding Languages of 2016

- Python 36.7%
- Java 37.7%
- C++ 9.4%
- C 8.9%
- PHP 1.4%
- Ruby 1.4%
- JavaScript 1.4%
- SQL 0.2%
- C# 0.1%
- Go 0.1%

Most Popular Coding Languages of 2016
Motivation

Dice Tech Salary Survey