CMPSC250
Lecture 0: Course Overview

Prof. John Wenskovitch
01/12/2015
The Important Stuff

• TTH 9:30-10:45 in Alden 101
• Lab W 2:30-4:20 in Alden 101
• Prerequisites: CMPSC112 and MATH205 (or permission)
• Required textbook:
• Office: Alden 104
• Email: jwenskovitch@allegheny.edu
Office Hours

7am

8am

9am
9 - 9:50 CMPSC112 - Introduction to
9:30 - 10:45 CMPSC250 - Analysis of Algorithms

10am
10 - 12:30p Office Hours (15min slots)
10 - 12:30p Office Hours (15min slots)
10 - 12:30p Office Hours (15min slots)

11am
11 - 12p Office Hours (15min slots)
11 - 12p Office Hours (15min slots)
11 - 12p Office Hours (15min slots)

12pm

1pm

2pm
2:30p - 4:20p CMPSC112 Lab
2:30p - 4:20p CMPSC250 Lab
2:30p - 4:20p CMPSC250 Lab

3pm

4pm

5pm

6pm

7pm
The Moderately Important Stuff

• Grading!
  – Exams 1-2 (15% each)
  – Final Exam (20%)
  – Projects and Labs (30% total)
  – Final Project (10%)
  – Attendance & Participation (10%)
Some Other Degree of Importance

• Weekly labs
  – Dedicated time to work on the labs each week
  – Due prior to the next lab session
  – You will work in groups to understand the material, but each individual must submit their own work
Late Policy

• If it’s late, you get penalized
  – 20% up to one week
  – 100% after one week

• If you can’t get to class, tell me in advance
• If you’re sick, please get me documentation
• Don’t schedule vacations during exams!
What will I learn?

1. How to implement and analyze algorithms for common tasks such as sorting, searching, and operations for common data structures.

2. Algorithm design techniques such as recursion, divide and conquer, and dynamic programming.

3. How computational complexity is measured in terms of time and space.

4. The classes P, NP, and NP-Complete.
Class Structure

• **Weeks 1-2** = Analysis of Algorithms
• **Weeks 3-5** = Sorting Algorithms
• **Weeks 6-8** = Searching Algorithms
• **Weeks 9-11** = Graph Algorithms
• **Weeks 12-14** = String Algorithms
• **Week 15** = P/NP, NP-Completeness
Important Dates

• EXAM 1 WILL BE ON February 18
• EXAM 2 WILL BE ON April 1
• FINAL EXAM WILL BE ON APRIL 30, 7:00 PM
Department of Computer Science
Honor Code Policy

“It is recognized that an important part of the learning process in any course, and particularly in computer science, derives from thoughtful discussions with teachers, student assistants, and fellow students. Such dialogue is encouraged. However, it is necessary to distinguish carefully between the student who discusses the principles underlying a problem with others, and the student who produces assignments that are identical to, or merely variations on, someone else’s work. It will therefore be understood that all assignments submitted to faculty of the Department of Computer Science are to be the original work of the student submitting the assignment, and should be signed in accordance with the provisions of the Honor Code. Appropriate action will be taken when assignments give evidence that they were derived from the work of others.”
Any Questions?