HIGH-LEVEL PROGRAMMING I

Introduction to HLP1

by Prasanna Ghali

High-Level Programming 1

- *Assumed Knowledge*
- *Objectives*
- *Teaching Rationale*
- *Teaching Strategies*
- *Learning Strategies*
- *Help*

Assumed Knowledge

- None

Objectives

- Teach fundamental programming concepts and methodologies using C programming language
  - Give you exposure to computational thinking
  - Get you to think harder and deeper about what is happening in your machine
  - Get you to be disciplined and detail oriented
- Ultimately, pave the way for you to become a polyglot

Teaching Strategies

- Lectures
- Labs/Tutorials [20%]
- Quizzes and Exercises [15%]
- Programming Assignments [15%]
- Midterm and Final Assessments [50%]

Teaching Strategies: Lectures

- Introduce theoretical concepts
- Almost always accompanied by live coding demonstrations and examples of theory
- After lecture, you must read associated material in textbook and program before attending next lecture!!!
- Attendance is mandatory

Teaching Strategies: Labs/Tutorials

- Clarify material covered in lectures
- We'll focus on most critical concepts covered that week and implement program(s) that exercise these concepts
- Pair programming is encouraged
- Attendance is mandatory
- Respect submission deadlines!!!

Teaching Strategies: Quizzes

- Provide a venue to better understand theory covered in lectures
- Involves reading specified text book material and answering questions that test your comprehension
- Could be in-class or take home
- Submission is mandatory – no submission equivalent to zero grade

Teaching Strategies: Programming Assignments

- Provide venue to improve problem solving skills
- Consist of structured programming exercises with little hand-holding
- Submission is mandatory
- Respect submission deadlines!!!

Teaching Strategies: Midterm & Final Tests

- Aim is for you and us to know how much you know
- Involves all material covered in lectures, labs, quizzes, and assignments
- Involves reading code, analyzing code, writing code, debugging code, …
- Attendance is mandatory

Online Only

- All assessments are online only!!!

Learning Strategies

- Be an active and motivated learner
- Come prepared to every lecture and lab
- Take pride in your submissions!!!
- Get your hands dirty by programming!!!
- Expand your horizons by reading the text book
- Get help – we're here to help you succeed

Getting Help

- If you've specific questions about HLP1 material:
  - Post questions to Teams channel
  - Use instructors consultation hours on Teams
  - Use Academic Support Center
- Questions involving your grades and other private matters should be directed to your instructor
  - Emails must always have [CSD1120] or [SEM1503] in Subject

Are You Helping Yourself?

- We're here to help, but what have you done to help yourself?
  - Your problem solving skills will determine your future career's trajectory
  - You can learn this skill by analyzing and debugging your problem extensively before asking for help
  - Asking for help at first sign of something not working is similar to spoon feeding!!!

Academic Integrity

- You've to submit original work
  - Discussing solutions is encouraged
  - Pair programming is encouraged during labs
  - Having study groups is encouraged
- Don't take solutions
- Don't provide solutions
- Read academic integrity policy on course web page