

Course: 15-213 Introduction to Computer Systems

Aim: improve programming skills through knowledge of CS basics

Course Learning Objectives:

- Recognize the relation between programs
- Interpret intention of programs and how to debug them
- Apply/ develop programming aids

**Carnegie
Mellon
University**

School of
Computer
Science

Constraints

- Scale: 1500 students per year
 - Breakout rooms less feasible
- Timing: instructor prefers integrated approach
- Post-lecture time slot



Module Learning Objectives

Prioritize takeaways for future use!

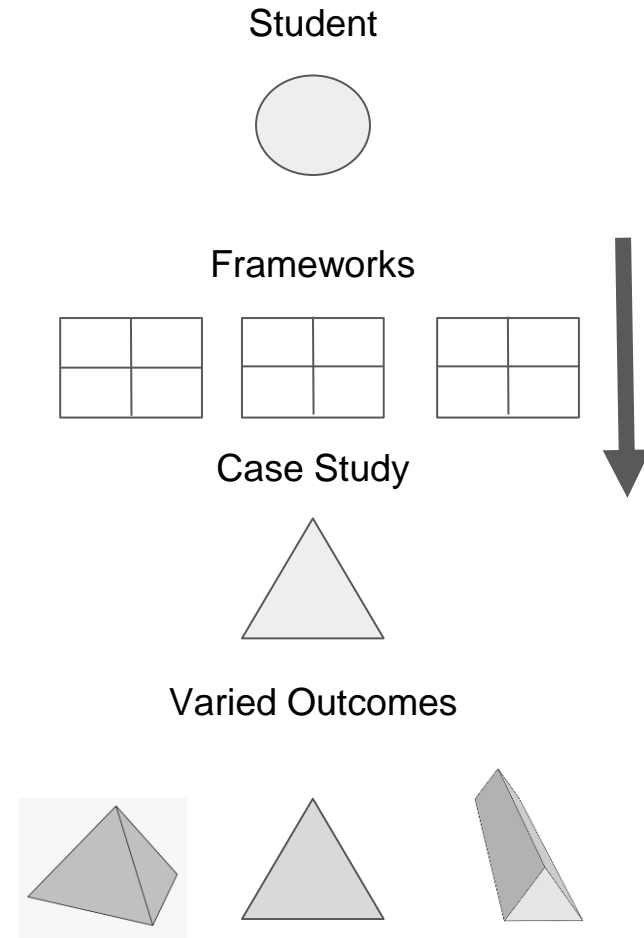
- Apply frameworks to case studies
- Consider ethical context of programming
- Understand inherent vulnerabilities of code



Topic:

6 topics illustrated by case studies

- Exploit reporting best practices
- Conflicts of interest
- Ethical culpability
- Ethicality of quality attribute requirements
- Power of code to influence users
- Plagiarism, 'scooping,' & fair use



Implementation Design

