

# Welcome & Introductions

CS 124 – Intro to Software Development

Macbeth – Lesson 1.1

# Agenda

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- Opening Prayer
- Introductions
- Class Overview
- Cadence
- Graded Work
- What does Success look like?
- Getting Help
- Looking Ahead

# Introductions

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- Contact Information:

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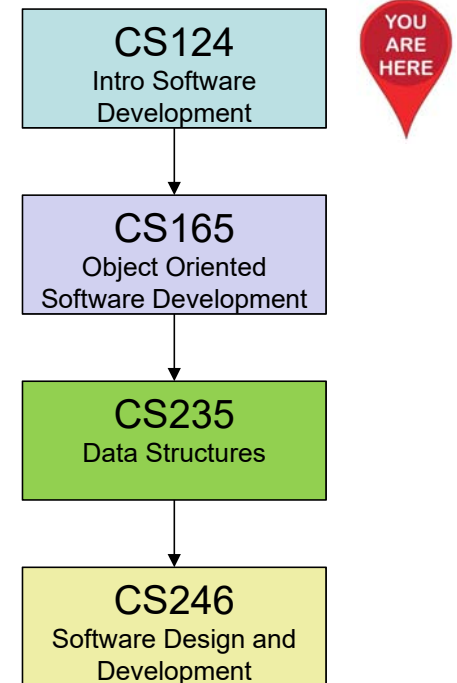
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# Class Overview

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- CS 124 is the first course in the CORE 4.
- Outcomes:
  - Be well prepared for CS 165 and the other courses in the CS major
  - Have confidence in their ability to solve problems with C++
  - Possess a tool-bag of different approaches to solve software problems
  - Have a firm foundation in the basic constructs of procedural C++
- Book available in Bookstore or in PDF format in I-Learn:
  - Procedural Programming in C++ by James Helfrich



# Cadence

“Every Student should be spending 2 hours of preparation time for every hour they spend in class.” – President Kim Clark

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sabbath Day	Reading & Assignment Due (Before Class)		Reading & Assignment Due (Before Class)		Reading & Assignment Due (Before Class)	Weekly Project Due (11:59pm)
	Do Reading and Assignment for Wednesday (1 hour)	Work on Project (3 hours)			Do Reading and Assignment for Monday (1 hour)	

# Class Time

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- You are expected to be in every class.
- We have only one hour ... so please be on time.
- Typical Agenda:
  - Opening Prayer
  - Spiritual Thought / Music
  - Deeper review of topics including your questions
  - Practice coding and problem solving together
  - Looking Ahead

## Graded Work - Assignments

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- Overview:

- There is one assignment for each lesson (28 total)
- Each assignment “looks a lot like” a problem we do in class or in the book.
- Grading will be as follows:

Turned in time	Points
2 days early	150%
1 day early	125%
Before class	100%
One day after class	50%

Assignments	20% of Grade
Unit Tests	20% of Grade
Projects	40% of Grade
Final Exam	20% of Grade

- Motivation

- Though these assignments are not worth many points, they will be “**very important**” skills to master for our tests and projects. Assignment completion is a very good predictor of final grade performance.

## Graded Work – Unit Tests

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- Overview:
  - There is one test after each unit.
  - They are worth as much as all the assignments combined.
  - The test is in class using your laptop to solve a simple problem.
  - There are practice problems and solutions posted.
  - We will do a study session in class before each test.
- Motivation
  - The purpose of the test is to demonstrate proficiency with the fundamental skills learned during the section. You will need to have these skills “down pat” and well rehearsed before coming into the test.
  - The test is not about problem solving; the projects are for that.

Assignments	20% of Grade
Unit Tests	20% of Grade
Projects	40% of Grade
Final Exam	20% of Grade



## Graded Work – Projects

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- Overview:

- There is one project for each of the four sections.
- The projects are very difficult; you will not be able to wait to the last day to do them.
- Through these projects, we will learn problem solving skills and how to work on large projects.
- Only one late project will be accepted (see the syllabus).

Assignments	20% of Grade
Unit Tests	20% of Grade
Projects	40% of Grade
Final Exam	20% of Grade

- Motivation:

- Reading, assignments, and class time help you to master the tools of the language. The projects allow you to apply what you have learned to solve a problem.
- Projects encourage teach time management skills and provide an opportunity to practice pondering. You should work on the project a little each day.

Project Name	Weeks
Monthly Budget	2, 3, 4
Calendar	5, 6, 7
MadLib	8, 9, 10
Sudoku	11, 12, 13

## Graded Work – Final Exam

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- Overview:
  - There are 2 final exams during the last two days of class. You will get feedback on the 1<sup>st</sup> exam to help you prepare for the 2<sup>nd</sup> exam.
  - Multiple Choice - Code questions
  - There are practice problems posted.
  - We will do a study session in class before the final.

Assignments	20% of Grade
Unit Tests	20% of Grade
Projects	40% of Grade
Final Exam	20% of Grade

## Graded Work – Your Best Work

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### **13<sup>th</sup> Article of Faith:**

We believe in being honest, true, chaste, benevolent, virtuous, and in doing good to all men ... If there is anything virtuous, lovely, or of good report or praiseworthy, we seek after these things.

- Learn with other people, but write your own code. Do not copy code from the internet. The consequence is at least a zero.
- Do not be obsessed with your grade. Be obsessed with learning. When you learn, it will be reflected in the grade. The assignments, projects, and tests have been standardized over many years to measure how well you have learned.
- If you are unable to finish an assignment, turn in what you have (add notes describing where you got stuck). Do not sell yourself short by neglecting to turn something in by the due date.

## What Does Success Look Like

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- **Preparing** – I prepare to learn by completing the reading and assignment before every class.
- **Learning Together** – I attend every class and I learn from my classmates as we solve problems together.
- **Pondering** – I start my project at the beginning of the week and think “how will I use what I learned today” in my project.
- **Resilient** – I am about to take the final exam after turning in the last project.

*“But the fruit of the Spirit is love, joy, peace, longsuffering, gentleness, goodness, faith, meekness, temperance.”*

*Galations 5:22*

## Resilience

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“Success consists of going from failure to failure without loss of enthusiasm.”

- Sir Winston Churchill

# Getting Help

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- BYU-Idaho has many resources to help you.
  - My office hours are:
    - Monday, Wednesday, Friday: 3:30pm – 4:00pm
    - Tuesday, Thursday: 10:30am – 12:00pm
  - Visit the Computer Science Help Center
    - Monday: 10am – 7pm
    - Tuesday – Friday: 10am – 8pm
    - Saturday (starting Sep 23<sup>rd</sup>): 11am – 5pm
    - Staffed with experienced lab assistants who know the class assignments and projects
  - Visit the following web pages:
    - Academic Support Center – [www.byui.edu/academic-support-centers](http://www.byui.edu/academic-support-centers) (McKay Library)
    - Wellness Center – [www.byui.edu/activities/recreational-facilities/wellness-center](http://www.byui.edu/activities/recreational-facilities/wellness-center) (Hart Building)
    - Counseling Center – [www.byui.edu/counseling-center](http://www.byui.edu/counseling-center) (Student Health Center)

# Looking Forward

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- Before Class on Wednesday
  - 0.0 Prepare (If not done yet)
    - Read Section 0 Course Introduction & Overview (pgs 2-3)
    - Complete Quiz 1 – Course Introduction & Overview (\*)
  - 0.1 Prepare
    - Read Section 0 Computers & Programs (pgs 4-9)
    - Complete Quiz 2 – Computers & Programs (\*)
- Before Class on Friday
  - 0.2 Prepare
    - Read <http://computingcareers.acm.org> – Top 10 Reasons to Major in Computing
    - Read “Getting Set Up in the Linux Lab”

(\*) – For the first week these can be turned in as late as Friday