

XX00FC41-3001

# C++ PROGRAMMING

Wednesday 2022/10/05

# TODAY

- Constructors & overloading
- Destructors
- Inheritance vs Composition
- Multiple inheritance
- Overriding behavior

# ANNOUNCEMENTS

- Wednesday's evening sessions (Week 40-41) cancelled
- Unicafe + Anecdotes
- Next Week: Algorithm, Polymorphism
- Richard From Group 8?

# BIG PICTURE

- What is OOP?
  - Link 1
  - Link 2
- UML
  - Code Generation
  - Intro
  - Intro 2

# REVIEW

- Function overloading
- Default Parameters

# CONSTRUCTORS

- Default constructors
- Reducing your constructors (default parameters)
- Implicitly generated default constructor
- Classes containing class members

# DESTRUCTORS

- Resource acquisition is initialization (RAII)
- Constructor and destructor timing

## *Group Activity*



# COMPOSITION VS INHERITANCE

- Object Relationships
  - Class Diagram- Relationships
- Composition
- Inheritance

# INHERITANCE

- Intro
- Basics
- Order of construction of derived classes
- Initialization of derived classes

## *Group Activity*

# RESOURCES

- [Learncpp](#)
- [Online Compiler](#)

*Thank You!*