605.604 Summer 2021 Course Outline

This outline provides an overview of the course topics, assignments, assignments, and project deliverables by week. Please remember to check the course website for each week's reading assignments.

Each course week runs for a period of seven (7) days, beginning on a Tuesday and ending on a Monday, with the exception of the final week which ends on a Tuesday. Unless otherwise specified, all assignments, discussion postings, project deliverables, and exams are due by 11:59pm Eastern time on the last day for that module.

Week	Dates	Topics	Assignments
Week 1	Tue 06/01/21- Mon 06/07/21	Introduction to C++Pointers & References	Week 1 Assignment (Due 06/07)
Week 2	Tue 06/08/21– Mon 06/14/21	Scope, Lifetime, NamespacesIntroduction to Classes	 Week 2 Assignment (Due 06/14) Project #1 Available (Due 07/05)
Module 3	Tue 06/15/21– Mon 06/21/21	 Working with Classes – 2 Basic Object-Oriented Design Smart Pointers 	Advance Prep Assignment (Due 06/21)
Week 4	Tue 06/22/21– Mon 06/28/21	 Working with Classes – 3 Object-Oriented Design Principles – 2 Guidelines for Testing & Containment 	Week 4 Assignment (Due 06/28)
Week 5	Tue 06/29/21– Mon 07/05/21	Function OverloadingOperator OverloadingIntroduction to Inheritance	Project #1 DueProject #2 Available (Due 08/09)
Week 6	Tue 07/06/21- Mon 07/12/21	Midterm Exam	Midterm Exam (Due 07/06)
Week 7	Tue 07/13/21– Mon 07/19/21	Base Class PointersVirtual FunctionsAbstract ClassesInterfaces	
Week 8	Tue 07/20/21– Mon 07/26/21	 Function & Class Templates Random Numbers & Simulation State Models & Activity Diagrams 	Week 8 Assignment (Due 07/26)

Week	Dates	Topics	Assignments
Week 9	Tue 07/27/21– Mon 08/02/21	 STL Sequential Containers STL Associative Containers 	Week 9 Assignment (Due 08/02)
Week 10	Tue 08/03/21– Mon 08/09/21	STL AlgorithmsException HandlingFile I/O	Project #2 Due
Week 11	Tue 08/10/21– Mon 08/16/21	LambdasDesign Problems & Solutions	
Week 12	Tue 08/17/21	Final Exam	Final Exam (Due 08/17)

Please note that your instructor may make changes to the above information over the course of the semester.