



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Advanced C++ Programming  
**Course Number:** CSE234

### Required Materials

**Textbook(s):** Absolute C++, 6th Edition, ISBN: 9780133970784, Savitch, Walter and Mock, Kenrick  
**Required Readings:** None  
**Additional Materials:** Access to **Visual Studio 2022** running on a computer with a Windows 10 operating system. Access to the Internet. Browser that meets the requirements of Brightspace. Chrome, Edge, or Firefox

### Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	Lab 1 - Function Practice with Grading and Time Formatting
Week 2	Lab 2 - Building and Testing a CounterType Class
Week 3	Lab 3 - Event Management with Structs and User Input
Week 4	No Lab
Week 5	Lab 5 - Sentence Processing and String Transformation
Week 6	Lab 6 - String Reversal with Pointers
Week 7	Lab 7 - Multi-File User Authentication System
Week 8	Lab 8 - Sorted File Merge
Week 9	Lab 9 - Recursive Compound Interest Calculator
Week 10	Lab 10 - Object-Oriented Programming with Inheritance Win32 Extra Credit – Draw a Rectangle
Week 11	Extra Credit Polymorphism, Win32 menu
Week 12	Extra Credit - Template-Based Numeric Calculation
Week 13-16	Final Project - C++ Technology Research and Implementation