

Program Requirements for Final Project

Required Elements:

1. Header file

- a. Header Guard
- b. Class definition
- c. Private instance class member,
- d. Public members - function prototypes

2. At least one CPP file

a. Containing Function definitions

- i. One Default Constructor
- ii. At least one, parameterized Constructor
- iii. Define Destructor (Only one)
- iv. At least four functions – you will probably have more but at least 4 functions should be included.
- v. Demonstrate Pass by Value using Functions
- vi. Demonstrate Pass by Reference using Functions

3. At least one CPP file

a. Containing Driver Program – Main Function (executable)

- i. Menu driven program – display a menu and prompting user selection
- ii. At least one, Selection control structure – **IF...else structure.**
- iii. At least one, Repetition control structure – **Loop structure.**
- iv. Use of formatting to display output

4. Extra Credit (20 points total)

- a. Addition of 4 more functions other than the required functions OR
File input/output – **5 pts**
- b. Use of Structure – **2 pts**
- c. Use of Single-Dimensional Array – **3 pts**
- d. Use of Two-Dimensional Array – **3 pts**
- e. Creating Array of Objects – **4 pts**
- f. Performing a Search or Sort – **3 pts**

Of Primitive Types