**Program Requirements for Final Project**

**Required Elements:**

1. **Header file**
   1. Header Guard
   2. Class definition
   3. Private instance class member,
   4. Public members - function prototypes
2. **At least one CPP file**
   1. **Containing Function definitions**
      1. One Default Constructor
      2. At least one, parameterized Constructor
      3. Define Destructor (Only one)
      4. At least four functions – you will probably have more but at least 4 functions should be included.
      5. Demonstrate Pass by Value using Functions
      6. Demonstrate Pass by Reference using Functions
3. **At least one CPP file**
   1. **Containing Driver Program – Main Function (executable)**
      1. Menu driven program – display a menu and prompting user selection
      2. At least one, Selection control structure – **IF…else structure**.
      3. At least one, Repetition control structure – **Loop structure**.
      4. Use of formatting to display output
4. **Extra Credit (20 points total)**
   1. Addition of 4 more functions other than the required functions – **5 pts**
   2. Use of Structure – **2 pts**
   3. Use of Single-Dimensional Array – **3 pts**

**Of Primitive Types**

* 1. Use of Two-Dimensional Array – **3 pts**
  2. Creating Array of Objects – **4 pts**
  3. Performing a Search or Sort – **3 pts**