

COP2221 – Intermediate C++ Programming

Module #12 Assignment

10 points

Module #12 Part One (this part is **not** submitted – it's to get your started)

Write a simple program that **defines** and **uses** a structure named **TextbookInfo**. A **TextbookInfo** variable should be able to store the following information:

- Textbook title
- Publication date (year only – such as – 2013)
- Textbook cost

You should **define** the structure (not declare a variable – only define your new data type (**TextbookInfo**)) **before** function **main()** – refer to Program 11-1 (lines 7 – 14) in the text, if needed.

Inside function **main()**, **declare** two **TextbookInfo** variables. Prompt the user to enter data for each of the defined variables. Again, Program 11-1 is a good reference for this task.

Display (labeled) the data from each of the above structures.

Module #12 Part Two (use the above program to create the final program – you'll be removing lots of the above code, however, you now know that you have a properly defined struct and can use it as the basis for the overall program).

Use the **TextbookInfo** structure defined above. Create an array of **TextbookInfo** structures called, **CourseMaterials**. The array should consist of 3 elements. Program 11-4 in the text will help with this programming project.

Ask the user to enter data for the array, **CourseMaterials**. **Validate** the user's entry for the **cost** of the textbook – be sure a positive number is entered. The other fields do not need to be validated.

After all input has been entered – display a table (labeled) of the array data. Be sure the cost is formatted properly.

NOTE: I know this isn't much of an assignment but it gives you experience with an array of structs. You should be able to apply any type of needed algorithm if/when the situation arises. No programmer defined functions are needed. 😊