# C - Assignment 08 (100 pts)

### Exercise 01 (5 pts)

Create a structure course that is made from the following fields:

- Department (string, 15 characters)
- Course number (integer, 4 digits, leading 0 if necessary)
- Course title (string, 30 characters)
- Credits (short, 1 digit)

Complete with the required typdef.

### Exercise 02 (15 pts)

Write a function inputCourse () which receives a course pointer and allows the user to input its information taking the size of each field into account. Test the function, but don't include the testing code in your homework.

### Exercise 03 (20 pts)

Write a function printCourse () which receives a course pointer and prints all its fields, 1 field per line, using the following conditions:

- The labels ("Department", "Course Number", ...) are left aligned
- The values are right aligned
- Course numbers must have leading zeroes

Test the function, but don't include the testing code in your homework.

Upload a screenshot of a sample output.

### Exercise 04 (20 pts)

Write a function printCourseRow() which receives a course pointer and prints all its fields as a single row. Use proper formatting so that when we print 2 or more courses as rows, the same members align below each other. Test the function, but don't include the testing code in your homework. *Upload a screenshot of a sample output*.

#### Exercise 05 (10 pts)

Write a function inputAllCourses () which receives an array of course pointers and the array's size, then allows the user to input all courses in the array by calling inputCourse ()

# Exercise 06 (10 pts)

Write a function printAllCourses() which receives an array of course pointers and the array's size, then prints all courses in the array by calling printCourseRow()

# Exercise 07 (20 pts)

Write a main() function using the following requirements:

- Define a SIZE constant (the value is irrelevant, but for testing, you may want to keep it small enough no bigger than 5)
- Create an array of course pointers using SIZE
- Dynamically allocate each element of the array
- Call inputAllCourses()
- Call printAllCourses()

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