

## CC 213- Programming Application

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**Hour:** Lecture: 2 Hrs.      Tutorial: 2 Hrs.      Credit: 3.

**Coordinator:** Sherif Fadel

**Text Book:**

- J.Hanly and E. Koffman, "C Program Design for Engineers", Addison Wesley, latest edition.

**Reference Books:**

- H.Schildt, "C, the complete reference ", Osborne McGraw-Hill, latest edition.

**Specific course information**

- a. An advanced C-language Programming is provided in this course: two dimensional arrays, strings, pointers, recursion, structures, bitwise-operators, input-output interfacing as well as text and binary files are covered in details. Projects are required from students to increase their skills in C programming
- b. Prerequisite: CC112
- c. Designation: Required

**Specific goals for the course:**

- An ability to apply knowledge of mathematics, science, and engineering.
- An ability to identify, formulate, and solve engineering problems.

**Course instruction outcomes:**

- The student will learn C-language programming techniques, files, pointers, structure, string, and array.

**Student outcomes:**

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**Topics Covered:**

- Introduction and overview.
- Revision of one dimensional array
- Searching and sorting
- Two dimensional arrays
- Pointers and Strings
- Structures/Unions
- Recursion
- Text Files
- Binary Files

- Bitwise Operators/ I/O Interfacing
- Advanced Applications

Course / credit hours	Math & Basic Sciences	Engineering Topics	General Education
Programming Application		1	2