

Intermediate C Programming

OVERVIEW:

This course continues the students' study of the C programming language using the C99 standard. The core C language features covered in this course include functions, arrays, strings, pointers, dynamic memory allocation, library functions, structures, and file I/O. Programming techniques covered by this course include modularity, top-down design, documentation, debugging, and testing.

PREREQUISITES:

Students should have completed our 'Introduction to C Programming' course or have equivalent knowledge of the C programming language.

COURSE OUTLINE

Topics Include:

- Review of Basic C
- Program and Data Structure Design
- Function documentation
- Formatted Input/Output
- Advanced Structures
- Function macros
- Integer representation
- Bitwise operators
- Pointers to Structures and Linked Lists
- Dynamic memory allocation and related topics
- Pointers to Pointers and Dynamic multi-dimensional Arrays
- Unsigned data types
- Pointers to Functions
- Searching and Sorting an Array
- Pointer arithmetic
- Advanced Sequential File I/O
- Debugging Techniques
- Separate compilation
- Makefiles and the make utility
- Miscellaneous C Features
- Common C Bugs

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What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience.
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

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- Enthusiastic Student Services team available to answer any questions and ensure a quality training experience