

PROFESSIONAL CERTIFICATE PROGRAM

INTRODUCTION TO COMPUTER PROGRAMMING

The Computer Programming Certificate is intended for professionals who seek positions as computer programmers in C, C++ or Java or need to increase their knowledge of computer programming. This program also focuses on developing the academic skills of problem solving and critical thinking.

Pre-requisite:

Applicants are required to have basic computer skills including Microsoft Office Suite or Introduction to Computers.

A certificate in Computer Programming will be awarded upon successful completion of the required three courses (6.3 CEUs.)

Certificate Requirements:

Introduction to Programming using C
Introduction to Programming using C++
Introduction to Programming using Java

Each Course:

Length: 7 weeks
Cost: \$715 per/course
CEU's: 2.1 per/course

INTRODUCTION TO PROGRAMMING WITH C

Designed to gain a mastery over elementary programming concepts in C including input/output, branching and looping and the use of functions and arrays. To know the difference between procedural and object oriented concepts. To acquire sufficient knowledge of the operating system and to enable use of the C programming environments available on PC.

INTRODUCTION TO PROGRAMMING WITH C++

Designed to gain an understanding of elementary object oriented programming concepts in C++ including structures and classes and understanding related concepts of polymorphism, encapsulation and inheritance.

INTRODUCTION TO PROGRAMMING WITH JAVA

Designed to gain skills in object oriented programming concepts using Java including but not limited to structures and classes and understanding related concepts of basics of data structures. To acquire sufficient knowledge of the operating system and to enable use of the Java programming environments available on PC particularly Eclipse. Also introduces students to virtual classrooms and online learning strategies.