UCSC Silicon Valley extension

| Home | | Find Courses | | Areas of Study | | My UCSCX | | Enrollment | | My Account | | Cart |

James J Kim   Logout

REGISTRATION

18344 - C++ Programming, Comprehensive   ?

Description

C++ is a general-purpose object-oriented programming language that offers portability, speed, and modularity, as well as compatibility with C and other languages. Because most automation, embedded applications, gaming, and many large data processing applications are written in C++, it is essential that software developers understand and master it. Hardware engineers are increasingly using C++ and OOP in system verification tasks. This course offers an excellent foundation in developing optimized C++ applications. The participants will learn to write faster and modular code, and the debugging techniques, for real-world applications. There will be assignments and exercises to accompany the lectures.

Topics Include:

- Principles of object-oriented analysis and design
- Stream classes for input/output and to read/write files
- User defined data types using structures and classes
- Declarations of identifiers, pointers, function pointers and references
- Reuse code and extend existing data types through inheritance
- Memory management and dynamic array declarations
- Create class/function templates and understand STL
- Use static member variables and static member functions
- Singleton design pattern using static member functions
- Declare friend functions and friend classes
- Function overloading and operator overloading
- Polymorphism concept using virtual function
- Understand exceptions handling techniques using try/catch syntax

Note(s): Students must have access to a C++ compiler.

Skills Needed: Experience with a high level programming language such as C.

Prerequisites

Suggested: 5208   (C Programming for Beginners)

Sections

18344.(059)   **18344.(058)**   **18344.(060)**

ALSO SUGGESTED

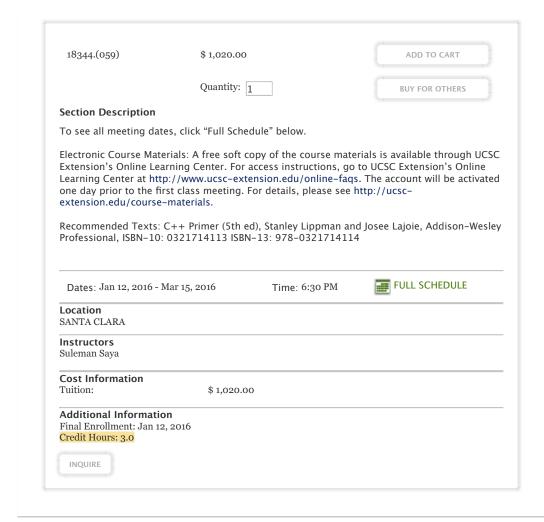| 30240 | C++ 11 Standard Programming: Advanced Topics and Gaming Project |
30412	Data Structures and Algorithms Using Java
4732	Data Structures and Algorithms Using C++
6633	Object-Oriented Development: Architectures and Design Patterns, Advanced
6634	Java Programming, Comprehensive

RECENTLY VIEWED

| 18344 | C++ Programming, Comprehensive |

INFO SESSIONS & EVENTS

BIOSCIENCE INFO SESSIONS
BUSINESS INFO SESSIONS
EDUCATION INFO SESSIONS
ENGINEERING INFO SESSIONS

18344.(059) $ 1,020.00   ADD TO CART

                               Quantity: [1]   BUY FOR OTHERS

Section Description

To see all meeting dates, click "Full Schedule" below.

Electronic Course Materials: A free soft copy of the course materials is available through UCSC Extension's Online Learning Center. For access instructions, go to UCSC Extension's Online Learning Center at http://www.ucsc-extension.edu/online-faqs. The account will be activated one day prior to the first class meeting. For details, please see http://ucsc-extension.edu/course-materials.

Recommended Texts: C++ Primer (5th ed), Stanley Lippman and Josee Lajoie, Addison-Wesley Professional, ISBN-10: 0321714113 ISBN-13: 978-0321714114

Dates: Jan 12, 2016 - Mar 15, 2016   Time: 6:30 PM   FULL SCHEDULE

Location
SANTA CLARA

Instructors
Suleman Saya

Cost Information
Tuition: $ 1,020.00

Additional Information
Final Enrollment: Jan 12, 2016
Credit Hours: 3.0

INQUIRE

About | **Contact Us** | **Privacy** | **Student Services** |