



UW Extension Certificate Program in C++ Programming

About the Program

C++ is the most extensively used object-oriented programming language today. The C++ Certificate Program provides a solid foundation in modern C++ for experienced programmers. Participants in the C++ Programming Certificate Program are introduced to the concepts of object-oriented analysis and design, and learn to apply the principles in the problem-solving process. Students learn and gain experience in using the basic syntax, class libraries and advanced features of the C++ programming language.

This program is designed for experienced programmers who already have knowledge of the C programming language. Experienced programmers who have no background in the C programming language may take a preparatory course, Foundations of C++, to qualify for entry into the C++ Certificate Program.

Evening classes are held in Bellevue, to meet the needs of working adults.

Foundation of C++

This course is a type of prerequisite intended for experienced programmers who want to enroll in the *C++ Certificate Program*, but have no background in the C programming language. This course covers the portion of C++ that is common to the C programming language. Intrinsic data types and structures and pointers are covered, plus the language constructs for loops, relational expressions, branching statements and the C++ build process. This course is required for students without a C background, but who have programming experience.

Upon completion, students are able to write a C++ program of moderate complexity, having multiple source files and using address-based programming. Students completing the course are able to apply to the *C++ Certificate Program*.

ADVISORY BOARD

The *C++ Programming Certificate Program* has been designed by UW faculty with contributions and guidance from these industry professionals:

- **Ian Angus**, Senior Software Engineer, The Boeing Company
- **Erik Bansleben**, Associate Director, UW Extension, University of Washington
- **Roger Cox**, Manager, Preliminary Design and Analysis, The Boeing Company
- **Arun Das**, Associate Technical Fellow, The Boeing Company
- **Martin Dickey**, Lecturer, Computer Science & Engineering, University of Washington
- **Michael Fischer**, Director, Product Development, AccessLine Technologies
- **Neil Fishman**, Software Development Engineer, Microsoft Corp.
- **Misha Lyalin**, President and Founder, Reaxion Corp.
- **Tim Maher**, Founder and Chief Executive Officer, Consultix
- **Russ Moul**, Associate Technical Fellow, The Boeing Company
- **James K. Peckol**, Principal Consultant, Oxford Consulting
- **Marjie Peterson**, President, Macrosearch Inc.
- **Robert Stallcop**, Consulting Software Engineer, Ryte Byte Associates
- **Steve Yegge**

PROFESSIONAL CERTIFICATE PROGRAM

>> www.extension.washington.edu

Courses

C++ Programming: Introduction

Schedule: (10 Sessions) Wednesday, 6-9:00 p.m., Oct. 3-Dec. 19, 2007, (no meeting November 21); \$599

Covers most of the commonly used features of C++ programming. Emphasizes the practical side of designing and implementing object-oriented programs in C++, including UML static modeling techniques, information hiding, data abstraction, polymorphism, and software reusability.

C++ Programming: Intermediate

Schedule: (10 Sessions) Wednesday, 6-9:00 p.m., Jan. 9-Mar. 12, 2008; \$599; Building on *C++ Programming: Introduction*, this class provides in-depth coverage of modern C++, design patterns and practical issues affecting large-scale software development.

C++ Programming: Advanced

Schedule: (10 Sessions) Wednesday, 6-9:00 p.m., April. 2-June. 4, 2008; \$599; Continues to build the student's repertoire of programming idioms, design patterns and advanced C++ Standard Library components.

About UW Extension Certificate Programs

This nine-month program gives you a diverse set of skills to take you to the next stage in your career.

Build Your Network! You'll connect with other designers & developers enhancing their own careers, allowing you to learn from their experiences and expand your professional network.

Study with the Pros! Learn from seasoned instructors who derive their expertise from many years of teaching & professional experience.

Earn a valuable Credential! The University of Washington is the leading research and graduate studies university in the Northwest.

Learn around Your Schedule! The certificate program courses are scheduled at a convenient time to work with your busy schedule.

Make the decision today to achieve your career goals—and let the Managing for High Performance certificate give you the knowledge you need to get there.

About UW Extension

Learning through UW Extension gives working professionals the quality education that will take your career to the next level, whether you long for a promotion or a shift to a completely new field. All UW Extension programs are designed by UW faculty, industry experts and community leaders. To ensure you receive first-rate instruction, every UW Extension program must be approved by the corresponding University of Washington academic department. UW advisory boards are continually reviewing programs and

Learn more about the program

For complete details, visit the Web site:

➔ WWW.EXTENSION.WASHINGTON.EDU

Attend an information meeting.

Interested in a certificate? You can ask questions and meet instructors and former students at these free meetings. For meeting dates, times and locations, please go to our Web site.

Questions? Ask away

Give us a call:

📞 206.685.8936 OR 1.800.506.1325

Send us an email:

➔ EXTNADVISING@EXTN.WASHINGTON.EDU

Apply or register today

Call UW Extension:

📞 206.897.8939 OR 1.800.506.1325

Apply online:

➔ WWW.EXTENSION.WASHINGTON.EDU

This program is brought to you by UW Extension, a community gateway to the University of Washington.