

JAVA Programming

12-credit Advanced Technical Certificate

About the Certificate

Practice designing and writing JAVA-based applications that are client and server-based or web-based and learn object-oriented design techniques. If students have programming experience in a non object-oriented programming language, this advanced technical certificate will help them reach the goal of becoming a JAVA programmer.

Pearson VUE/Prometric Testing Center

WCTC is both a Pearson VUE and Prometric testing center. We are able to provide day and evening testing for most popular certifications that include:

- Cisco
- CompTIA
- Help Desk Institute
- Linux Professional Institute
- Microsoft
- VMware, Inc.

What is an Advanced Technical Certificate?

An advanced technical certificate (ATC) is designed for professionals with work experience or prior education in a degree program.

How to Enroll

A permit is needed before registering for classes within this certificate. Fill out the permit at www.wctc.edu/atcpermit or call 262.691.5056.

For more information, call 262.691.5056.

Required Courses

Credits

First Semester

152-135 Advanced Java Programming 4

Total semester credits 4

Second Semester

152-198 Distributed Java Programming 4

Total semester credits 4

Third Semester

152-199 Enterprise Java Programming 4

Total semester credits 4

Curriculum is current as of catalog printing.

JAVA Programming Required Courses

152-135 Advanced Java Programming 4

For experienced Java J2SE programmers only. A rigorous introduction to the Rational Unified Process (RUP) for Object-oriented Design and Analysis. Heavy emphasis on J2SE design patterns and skillfully assigning responsibilities to objects. Explore object collaboration, multithreading, advanced file and database connectivity, the Java Collections Framework (data structures), advanced graphical user interface (GUI) building techniques and the Unified Modeling Language (UML). Design and build a flexible, portal code using a model-driven architecture (MDA) and service-oriented approach. Design and build applications, custom components and subsystems with emphasis on improving reliability and portability, while decreasing maintenance costs.
Prerequisites: 152-134 Java Programming or 107-134 Java Programming

152-198 Distributed Java Programming 4

Explore topics associated with n-tier Java programming, including RMI and CORBA using the Visigenic object request broker. Discuss multitiered programming and the advantages and disadvantages of this type of programming. Apply these concepts using the Java programming language and the CORBA IDL language. Examine topics such as CORBA (Common Object Request Broker Architecture), IDL (Independent Definition Language), the Java RMI (Remote Method Invocation) interface, and the use of the Visigenic ORB software.
Prerequisites: 152-135 Advanced Java Programming or 107-135 ASP. Net Web Development

152-199 Enterprise Java Programming 4

Apply the Java programming language to Enterprise Java Beans, Java Server Pages (JSP), Java application servers (WebSphere), and Servlet technology.
Prerequisites: 152-198 Distributed Java Programming or 107-198 Distributed Java Programming