

Undergraduate Certificate - Enterprise Web Applications

The undergraduate certificate in Enterprise Web Applications focuses on the theories and skills necessary to design, develop, and implement robust enterprise web applications. You will be taught how to apply and use object-oriented programming (OOP), HTML, JavaScript®, and Java J2SE® and Java J2EE® and will examine the process to build and deploy real-world Java applications. One course in this program covers the CIW® JavaScript Specialist curriculum of the CIW JavaScript certification. After completing this certificate, you may consider pursuing your CIW Site Development Associate certification.

Note: While not a prerequisite, it is strongly recommended that you complete our undergraduate certificate in Web Publishing prior to enrolling in this program.

JavaScript® is a registered trademark of Oracle America, Inc.

Java J2SE®/Java J2EE® is a registered trademark of Oracle America, Inc.

CIW® is a registered trademark of Certification Partners, LLC.

Certificate Objectives

Upon successful completion of this certificate, the student will be able to:

- Assess the impact of Java 2 Standard Edition (J2SE) and Java 2 Enterprise Edition (J2EE) on Information Technology Management, on security, and on global economies as it applies to enterprise eCommerce solutions on the Web.
- Examine the principles and concepts of Object Oriented Programming (OOP) and evaluate the application of these principles in JavaScript and Java.
- Evaluate the power and advantages of XML that have made it the global standard for enterprise data exchange and data dictionary standardization.
- Explore and analyze the hierarchy of the Java Class Library; use the objects and properties to design and develop applications on the Web.
- Appraise the architecture, life cycle, management issues, and process for developing Java Server Pages (JSP) based, Java Servlets based, and JavaBeans based enterprise web applications.

Certificate Requirements (18 semester hours)

Code	Title	Semester Hours
ENTD200	Fundamentals of Programming	3
ENTD381	Object Oriented Programming With Java®	3
ENTD481	Enterprise Development using J2EE	3
INFO222	Database Concepts	3
WEBD121	Web Development Fundamentals	3
WEBD241	Web Development Using JavaScript®	3
Total Semester Hours		18