Madison Area Technical College

Effective: 2012-2013

Information Technology—
Java Professional Developer Certificate

Program Number: 90-152-7

Certificate

Information Technology Program Cluster

School of Agriscience and Technologies

Program offered at Madison Campuses

For information call: (608) 246-6800 or
(800) 322-6282 Ext. 6800

About the Certificate

This certificate is designed to prepare information systems professionals to use the Java programming language for web development. Three classes are used to teach students the necessary skills to make them successful in Java web development.

Unique Requirements for Admission

1) Associate Degree in programming (e.g. IT Programmer/Analyst) OR 2 years experience in a programming language (e.g. COBOL, Visual Basic, etc.)

2) Experience using a relational database (e.g. Access, MySQL, SQL Server, Oracle)

3) Experience in basic web development using HTML.

Certificate Application Process

To apply, see: Apply Online (on the Madison College website). Create an ApplyWeb account and follow the instructions to complete the Online Certificate Application before the application deadline. Submit the $15 non-refundable fee (payable by credit card, debit card or electronic check) with your application. Applicants may submit more than one certificate application per term using the Online Certificate Application; the same fees apply for each additional application.

Unique Requirements for Completion

The certificate will be awarded upon completion of the requirements with a minimum of a 2.0 grade average and no course grade lower than a C. The certificate will be awarded when completion of all requirements is verified after the semester the last course has been completed.

No more than 50% of the certificate credits may be through advanced standing.

Curriculum

Courses		Credits	Hrs/week Lec-Lab
10-152-111	Java Programming	3	2-2
10-152-112	Advanced Java Programming*	3	2-2
10-152-113	Enterprise Java Development**	3	2-2
	Total	9	

Note: All Information Technology courses require a grade of C or better in order to receive the certificate.

*Offered fall semester only **Offered spring semester only

Courses

10-152-111 Introduction to Java Programming 3 credits
Introduces programming and object-oriented design concepts using the Java programming language. Students learn all the Java programming basics and use a simple text editor as a development environment. Design concepts and programming tools will be integrated with an emphasis on practical business solutions.

10-152-112 Advanced Java Programming 3 credits
Focuses on the server side of application programming for the web. Topics include: Java servlets, database access with JDBC, JavaServer Pages and JavaBeans. A portion of the class deals with application design issues in a web environment. Prerequisite: 10-152-111.

10-152-113 Enterprise Java Programming 3 credits
The third class of the Java sequence explores advanced Java topics within the J2EE application framework. Topics include JDBC, Enterprise JavaBeans, Servlets, JSPs, XML, JMS, JNDI, Web Services, custom tag libraries, web applications and enterprise applications. Prerequisite: 10-152-112.

More detailed and updated information on this program may be available at: madisoncollege.org. The college reserves the right to make changes in the regulations and courses announced in this publication without notice.

Madison Area Technical College provides equal opportunity in education and employment.

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