

Madison Area Technical College
**Information Technology—
 iPhone Applications
 Development Certificate**

Effective: 2012-2013

Program Number: 90-152-9

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 develop iPhone applications. Students use the SDK environment on Apple computers for development. Three classes are used to teach students the necessary skills to make them successful in iPhone Applications Development.

Unique Requirements for Admission

- Madison College IT programming students who have completed either 10-152-167 MySQL Advanced Web Development, 10-152-112 Advanced Java Programming or 10-152-102 Advanced VB.NET Programming.

OR

- IT professionals with 2 years experience in an Object Oriented programming language (e.g. Java, Visual Basic .NET, C#, Ruby on Rails),

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.

Curriculum

Courses	Credits	Hrs/week	
		Lec	Lab
10-152-139 Intro to C and Objective-C	3	2	2
10-152-143 Phone Applications Development*	3	2	2
10-152-153 <u>Advanced iPhone Applications Development**</u>	<u>3</u>	<u>2</u>	<u>2</u>
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

10-152-139 Intro to C and Objective C 3 credits

The purpose of this course is to prepare students for advanced coursework in development of applications in Apple's iOS environment (e.g., iPhone/iPad/iPod devices). Students will be introduced to basic syntax, debugging, pointers, functions, and file I/O processing using the C programming language. Further course topics will be taught using Objective C, the native development language for iOS application development. These include classes, objects and methods, properties, and message sending. Prerequisite: Admission to the iPhone Applications Development certificate.

10-152-143 iPhone Applications Development 3 credits

Introduces programming simple iPhone applications using Cocoa and Objective C. Students will learn basic Objective C concepts, iPhone programming basics, and use the SDK environment on Apple Macintosh computers with OS X as a development platform. Design concepts and programming tools will be integrated with an emphasis on developing and deploying iPhone applications. Prerequisite: 10-152-139 or permission of instructor.

10-152-153 Advanced iPhone Applications Development 3 credits

Focuses on advanced features of the iPhone for applications development, including GPS for location-aware applications, motion sensing, and network-aware applications. A portion of the class deals with application design issues including sharing applications. Prerequisite: 10-152-143.

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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