

# Java, Web, and Mobile Device Programming Certificate

PROFESSIONAL TECHNICAL  
2012-2013 Certificate Requirements

## Major Courses

Course	No.	Course Title	Credits	Qtr. Completed	Comments/Substitution
CS	106	Database Systems	5		
CS	114	HTML/XHTML (Internet Publishing 1)	5		
CS	117	Computer Ethics <b>or</b>	2		
CS	118	Customer Service	3		
CS&	141	Computer Science I Java w/ Android Devices	5		
CS	223	Unix/Linux	5		
CS	225	SQL Server Programming	5		
CS	236	Java I/O with Android Devices & Integration	5		
CS	264	Android Application Development <b>or</b>	5		
CS	265	Objective-C/iPhone Programming <b>or</b>	5		
CS	272	Windows Phone Programming	5		
CS	275	Secure Coding & Software Development/Sr. Project	5		

**Total Credits Required 42-43**

The Java programming language provides a set of skills needed for desktop and web programming required by a large number of software solution companies. Students who complete this certificate will have basic skills to design and develop applications and applets, produce mobile and web-based applications in Java using the following tools: J2EE, and/or NetBeans. In addition, students will have the opportunity to work on team projects. Career opportunities: web developer, web design, and mobile device programming jobs. Manufacturers/mobile devices: Verizon, AT&T, T-Mobile, and Sprint/Windows phones, Androids, or iPhone/iPad.