

Java, Web, and Mobile Device Programming One-Year 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 | 5 | | |
| CS | 117 | Computer Ethics <i>or</i> | 2 | | |
| CS | 118 | Customer Service | 3 | | |
| CS& | 141 | Computer Science I Java | 5 | | |
| CS | 223 | Unix/Linux | 5 | | |
| CS | 225 | SQL Server Programming | 5 | | |
| CS | 236 | Java I/O and Intro to Integration | 5 | | |
| CS | 264 | Java for Android Apps <i>or</i> | 5 | | |
| CS | 265 | Objective-C/iPhone Programming <i>or</i> | 5 | | |
| CS | 272 | Windows Phone Programming | 5 | | |
| CS | 275 | Secure Coding & Software Development/Sr. Project | 5 | | |
| Select 5 additional credits from any CS courses | | | | | |
| | | | 5 | | |

Subtotal 47-48

General Education

| Course | No. | Course Title | Credits | Qtr. Completed | Comments/Substitution |
|---|------|--|---------|----------------|-----------------------|
| ENG& | 101+ | English Composition <i>or</i> above | 5 | | |
| MATH | 106+ | Business Mathematics <i>or</i> above | 5 | | |
| Psychology or Sociology (select 5 credits) | | | | | |
| PSYC& | 100+ | General Psychology <i>or</i> above <i>or</i> | 5 | | |
| SOC& | 101 | Intro to Sociology <i>or</i> | 5 | | |
| SOC& | 201 | Social Proglems | 5 | | |
| Communication Studies (select 3-5 credits) | | | | | |
| CMST | 101 | Speech Essentials <i>or</i> | 3 | | |
| CMST | 110 | Communication Behavior <i>or</i> | 3 | | |
| CMST& | 220 | Public Speaking <i>or</i> | 5 | | |
| CMST& | 210 | Interpersonal Communication <i>or</i> | 5 | | |
| CMST | 260 | Multicultural Communication | 5 | | |

Subtotal 18-20

Total Credits Required 65-68

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. Manufactures/mobile devices: Verizon, AT&T, T-Mobile, and Sprint/Windows phones, Androids, or iPhone/iPad.