



INTERFACE

JAVA

SPECIALIZATION

JAVA SPECIALIZATION SYLLABUS

Course Description

Love that ultimate control? In this 14-week course you'll learn the programming language that's relied upon by corporations of all shapes and sizes.

By the end of the course you'll design and implement a fully functional web application using Eclipse as your Integrated Development Environment (IDE) and implement web pages using HTML5 and CSS3. You'll code interactive, dynamic web pages using JavaScript and jQuery. Finally, you'll learn how to connect the client to the server by using AJAX to retrieve data.

Participant Profile

This course is open to individuals with 6 months of front-end web development experience and/or graduates of an Interface School Foundations course who want to build the skills to begin a career as a web application developer. An assessment is required to be accepted into this course.

UNITS

Outlined below are the units for this 14-week course. Keep in mind that we do not expect you coming to the course knowing the different terms, languages, and technical words that are included in the units. We'll teach you it all with hands-on instruction!

UNIT 1 **Course Overview and Introductions**

- Software installation and configuration

UNIT 2 **JavaScript and jQuery Review**

- JavaScript arrays, objects, variables, functions, scope
- Debugging in Chrome and Firefox
- jQuery selectors and actions
- AJAX
- JSON

UNIT 3 **Introduction to Java**

- Java classes & POJOs
- Variables, methods, & scope
- Conditionals and looping
- Intro to Object Oriented Design (OOD)
- Intro to JDK javadocs
- Lists and maps
- Generics
- Interfaces and inheritance
- Polymorphism
- Servlets

UNIT 4 **Introduction to RDBMS and MySQL**

- Install MySQL and MySQL Workbench
- Columns & keys
- Basic CRUD SQL

UNIT 5 **Other topics**

- Data access objects
- JavaScript Closures

UNIT 6 **Class Project**

- Build a fully functioning game from scratch, HTML to SQL

FAQS

Why should you enroll in this course?

Java is commonly used by many employers in the Midwest. This course provides you with all the information and training you need to start a career as a Java developer by providing practical knowledge and experience for real-world situations. You'll work with the front-end, to the server by creating web pages, to working with databases, and everything in between. You'll walk away from this course versatile enough to not only write code, but effectively debug too as a promising junior team member and full-stack developer.

Should I come equipped with anything?

Interface School includes your choice of a Windows laptop or a Macbook Air in your tuition if you need one.

System requirements: Laptop should be 3 years old or newer and have 2 GB of RAM (8GB recommended) as well as 3.2 GB available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system or on removable flash storage devices).

NEXT STEPS

Are you ready to change your career path and learn an incredibly valued skill set? [Apply](#) today. There's no risk in applying! After your application has been received, you'll be sent an online, non-technical assessment to gauge your problem-solving skills.