

JAVASCRIPT COURSEWARE (26 HOURS)

Topic 1: The Grammar of JavaScript – 4 hrs

- *Brief history*
- *Adding JavaScript to a web page*
- *Variables, strings, arrays*
- *Using comparison & logical operators*
- *Conditional statements: if...else and switch*
- *Loop statements*
- *Creating custom functions*
- *Types of errors; viewing error in your browser*
- *Creating your first simple application*

Topic 2: What are objects? – 4 hrs

- *Variable scope*
- *Common string methods*
- *Math object*
- *Common Array methods*
- *Date object*
- *Browser objects - window, location, document and screen*

Topic 3: More objects – 4 hrs

- *Images array*
- *Using forms*
- *Event handlers*

Topic 4: Debugging JavaScript – 4 hrs

- *Common debugging and troubleshooting tips and tricks*
- *Using Firebug*
- *Try...catch syntax*
- *Regular expressions*
- *Working with images*
- *Handling events*

Topic 5: Understanding the DOM – 4hrs

- *Referencing HTML elements*
- *Adding and Editing content to a Page*
- *Using anonymous functions*
- *Understanding Unobtrusive JavaScript techniques*

Topic 6: Cookies – 2 hrs

- *Reading and writing data to the browser*
- *Improving our code*

Topic 7: Object Oriented Programming Overview – 4 hrs

- *Creating custom objects*
- *Using object literal notation*
- *JavaScript library overview*
- *Ajax Overview*

Prerequisites

Students should be very knowledgeable in XHTML and CSS. Students are recommended to have completed Introduction to XHTML (H401) and Introduction to CSS (H151) or have equivalent knowledge.
Requirements

- *A modern browser: Firefox for Windows or Mac (required for debugging).*
- *A web host to post assignments.*

COURSE FEES: - 3900/-