**JavaScript: Beginning**

Course Number: 58411

Book: Sams Teach Yourself JavaScript in 24 hours, Sams Publishing

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**Course Description:**

Build dynamic and interactive web pages using JavaScript. Develop a familiarity with fundamental scripting concepts such as objects, properties, and methods. Learn how to create image rollovers and pop-up windows, and use the Document Object Model (DOM) for basic form validation. Prerequisite: 58111. Suggested: 58112 or 58401.

**Course Objectives:**

By the end of the class, you will be able to:

* Explain the difference between JavaScript other Web programming languages, how JavaScript may interact with those other languages
* Explain the concept and basic components of the Document Object Model
* Write loops and conditional statements using arrays, objects, and other data types.
* Write JavaScript code to:
  + traverse the Document Object Model
  + control events
  + change the contents of a web page
  + modify CSS styles
  + validate forms
  + create pop-up windows, image rollovers and build a drop-down menu.
* Use the above skills to create an image slider, an image gallery navigation scheme, and validate a form.

**Resources:**

www.w3schools.com

**Session 1: Getting Started**

* Introduction
* Getting Started: events, variables, logical operators, and control structures
* Exercises
* Homework
  + Read ch 1–5, answer questions & do exercises

**Session 2: More Advanced Javascript**

* External JavaScript files
* Advanced event handlers
* Create an image slider
* Homework
  + Read ch 6-9, answer questions & do exercises

**Session 3: The DOM**

* The Document Object Model
* Create an image gallery navigation scroller
* Homework
  + Read ch 11-13, answer questions & do examples