ITP 140 Revised: Fall 2017

# Virginia Western Community College ITP 140 Client Side Scripting

# **Prerequisites**

ITD 110, ITP 100

## **Course Description**

Provides instruction in fundamentals of Internet application design, development, and deployment using client side scripting language(s)

Semester Credits: 3 Lecture Hours: 3 Lab/Clinical/Internship Hours: 0

# **Required Materials**

#### Textbook:

Murach's JavaScript & JQuery Edition: 3rd

Author: Ruvalcaba, Delamater

ISBN: 9781943872053 Copyright Year: 2017

Publisher: Mike Murach & Associates, Incorporated

#### **Other Required Materials:**

NetBeans (latest version - downloadable from the Internet)

### **Course Outcomes**

#### At the completion of this course, the student should be able to:

- Understand how to integrate JavaScript into HTML Web page code
- Be able to write and run JavaScript code
- Understand how to debug JavaScript
- Be able to utilize constructs including decisions, loops and methods
- Thoroughly understand the Document Object Model
- Work with JavaScript events
- Validate Web forms with JavaScript, providing feedback to the user
- Understand the different frameworks and toolkits available for Web scripting
- Work with simple jQuery applications
- Understand how to use plugins
- Be able to utilize jQuery UI
- Be able to use Ajax, JSON, and Flickr

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# **Topical Description**

DATE		READING
Week 1	Mod 1 Intro to Class / Software Installation	Ch 1
Week 2	NO CLASS Labor Day. Start Mod 2	
Week 3	Mod 2 Intro to JavaScript & Essential JavaScript statements	Ch 2-3
Week 4	Mod 3 JavaScript Objects, Functions, Events, Testing & Debugging	Ch 4-5
Week 5	Finish Mod 3	
Week 6	Mod 4 Scripting the DOM & Working with links, images, & timers	Ch 6-7
Week 7	Finish Mod 4	
Week 8	Mod 5 jQuery, effects & animations	Ch 8-9
Week 9	Finish Mod 5	
Week 10	Mod 6 Forms and data validation, jQuery plugins and UI widgets	Ch 10-11
Week 11	Finish Mod 6	
Week 12	Mod 7 Numbers, strings, dates, control	Ch 13-14
Week 13	structures, exceptions, and regular expressions Finish Mod 7	
Week 13		Ch 15-16
Week 14	Mod 8 Browser objects, cookies, web storage, and working with arrays	CII 12-10
Week 15	Finish Mod 8	
Week 16	Final Exam and Projects Due	

# **Notes to Instructors**

- A midterm exam is required.
- The project is designed to give the student Ajax, JSON, and Flickr experience.