



WEB PROGRAMMING I — ISTC 1510

A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 2.00
- **Lab Hours/Week:** 1.00
- **OJT Hours/Week:** 0
- **Prerequisites:**
 - ISTC 1300: Introduction to Programming
- **Corequisites:** None
- **MnTC Goals:** None

This course covers skills used to create web applications with a focus on client-side technologies, including such topics as cascading style sheets (CSS), HTML and JavaScript. Students will create numerous web applications using scripting tools/languages. Emphasis will be placed on the design, development, deployment and maintenance of the interactive web sites. Prerequisites: ISTC1300 Introduction to Programming

B. Course Effective Dates: 1/12/15 – Present

C. Outline of Major Content Areas

As noted on course syllabus

D. Learning Outcomes

1. Create classes
2. Create dynamic web pages using a scripting language
3. Create interactive web forms
4. Create objects
5. Create web pages using simple HTML
6. Define client/server architecture
7. Explain the use of HTML tags
8. Integrate multimedia on web pages
9. Understand security issues related to web pages
10. Use cascading style sheets in web pages
11. Use decisions in a scripting language
12. Use loops in a scripting language
13. Verify web pages on numerous browsers

14. Work with functions in a scripting language
15. Work with scripting language's event model
16. Work with the Document Object Model (DOM)
17. Work with variables in a scripting language

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment

As noted on course syllabus

G. Special Information

None noted