

**AUSTIN COMMUNITY COLLEGE
CONTINUING EDUCATION**

**Part III: Advanced World Wide Web Authoring
X/HTML – Part III**

(12 hours)

ITNW 1072

COURSE SYLLABUS

Course Description: Introduces XML, dynamic X/HTML, style sheets, and techniques to create images with small files sizes. Provides students with an introduction to such advanced topics as CGI, Web scripting; audio, and multimedia. Features hands-on investigation and analysis of using these technologies with existing web sites.

Prerequisites: Part II, similar course, or equivalent experience.

Objectives: Every student will be able to:

- Create an animated graphic and link it to a Web page
- Describe methods for creating high-quality Web graphics with small file sizes
- Modify a JavaScript and include it in a Web page
- Modify and use an existing CGI script
- Explain Java and Web multimedia technologies
- Use dynamic X/HTML
- Describe XML, its connection to SGML and X/HTML as well as the steps necessary to create and implement an XML document
- Create and use Cascading Style Sheets

Rationale: The World Wide Web has become a major media for the dissemination of all types of business-related and personal information. The ability to create Web pages is becoming an important aspect of many employment skill sets and experienced and talented Webmasters are and will continue to be in high demand. New Web technologies are developed on what seems to be a daily basis. One of the Webmaster's big challenges is keeping up with new technologies, seeing through the marketing hype to the realities of the technologies, and implementing a technology once it has been targeted as an appropriate solution to an information dissemination problem. This course provides Webmasters experience at Web page creation with the knowledge base they will need to explore new technologies and implement them as part of their existing Web solutions.

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COURSE SYLLABUS

- IV. Introduction to XML (2 hours)
- A. What is a markup language
 - B. Connection between SGML, XML and XHTML
 - C. Creating XML documents
 - D. What are DTDs
 - E. Creating valid and well-formed documents
- V. Cascading Style Sheets (4 hours)
- A. Why to use CSS
 - B. Creating CSS
 - C. Basic CSS structure
 - D. Using and updating CSS
 - E. Embedded and linked style sheets

Student Assessment Checklist:

At the completion of the course each student will be able to:

1. Create an animated graphic and link it to a Web page
2. Describe methods for creating high-quality Web graphics with small file sizes
3. Modify a JavaScript and include it in a Web page
4. Explain Java and Web multimedia technologies
5. Use dynamic X/HTML
6. Describe XML, its connection to SGML and XHTML as well as the steps necessary to create and implement an XML document
7. Create and use Cascading Style Sheets