

# Inver Hills Community College

## CS 2251: Introduction to XML

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

CS 2250 - HTML

Corequisites: None

MnTC Goals: None

Includes XML syntax, Document Type Definition (DTD), schema and parser, Cascading Style Sheet (CSS), Document Object Model (DOM), Simple API for XML (SAX), XML Path Language (XPath), and Extensible Stylesheet Language (XSL). This course is designed for students who are experienced with HTML and are interested in learning mark up language beyond HTML. Prereq: CS 2250 or equivalent.

**B. COURSE EFFECTIVE DATES:** 08/22/2003 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. CSS and XSL: 20%
2. DOM and SAX: 20%
3. DTDs: 20%
4. Schema and Parser: 10%
5. XML Syntax: 20%
6. XPath: 10%

### D. LEARNING OUTCOMES (General)

1. Create custom markup using basic XML's features
2. Write and use DTDs
3. Use schema data types and apply a schema to describe elements and attributes of DTDs
4. Use JavaScript and Java to manipulate XML document
5. Manipulate and traverse the DOM from within a JAVA Application
6. Parse a document using SAX
7. Generate XSL documents using XSL Transformations and markup a document with XSL formatting objects
8. Use axes and predicates to locate information in multiple nodes
9. Write XPath expressions and use XPath to locate parts of XML document
10. Write XSLT documents and templates and iterate through a node set returned by an XPath expression

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted