GAVILAN COLLEGE
5055 Santa Teresa Blvd
Gilroy, CA 95023

Course Outline

COURSE: CSIS 151 DIVISION: 50 ALSO LISTED AS:

TERM EFFECTIVE: Fall 2014 CURRICULUM APPROVAL DATE: 02/24/2014

SHORT TITLE: INTRO XML AUTHOR

LONG TITLE: Introduction to XML Authoring

Units	Number of Weeks	Type	Contact Hours/Week	Total Contact Hours
3	18	Lecture:	2	36
		Lab:	3	54
		Other:	0	0
		Total:	5	90

COURSE DESCRIPTION:

This course provides an introduction and overview of eXtensible Markup Language (XML) and XML related technologies used to develop content and manipulate data for commercial web sites. XML is a revolutionary language which is rapidly becoming a Web development standard for business-to-business transactions, and for database manipulation and searching. The class will cover well-formed and valid XML documents, namespaces, schemas, cascading style sheets (CSS), and XSLT. This course has the option of a letter grade or pass/no pass. ADVISORY: CSIS 6

PREREQUISITES:

COREQUISITES:

CREDIT STATUS: D - Credit - Degree Applicable

GRADING MODES
- L - Standard Letter Grade
- P - Pass/No Pass

REPEATABILITY: N - Course may not be repeated

SCHEDULE TYPES:
- 02 - Lecture and/or discussion
- 05 - Hybrid
- 72 - Dist. Ed Internet Delayed

STUDENT LEARNING OUTCOMES:

1. Student will create XML documents basic commands
Measure: Homework, exercises
PLO:
ILO: 3, 2, 7
GE-LO:
Year assessed or anticipated year of assessment: 2014-2015

2. Student will set up valid XML documents, Namespaces and Schemas
Measure: Homework, exercises
PLO:
ILO: 3, 2, 7
GE-LO:
Year assessed or anticipated year of assessment: 2014-2015

3. Student will design XML documents
Measure: Projects, homework
PLO:
ILO: 1, 5
GE-LO:
Year assessed or anticipated year of assessment: 2014-2015

4. Student will select appropriate fonts, layout, and color for good XML pages.
Measure: homework, exercises
PLO:
ILO: 2, 1, 5, 6
GE-LO:
Year assessed or anticipated year of assessment: 2014-2015

5. Student will set up valid Cascading Style Sheets for XML documents
Measure: homework, exercises
PLO:
ILO: 2, 3, 7
GE-LO:
Year assessed or anticipated year of assessment: 2014-2015

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Curriculum Approval Date: 02/24/2014
Note: Students repeating this class will learn new XML commands and browser capabilities, and will expand previous knowledge. Both the browsers and the XML commands are changing once a year.
WEEK 1-3 (6/9 HOURS)
Lecture:
Introduction to XML
XML vs. HTML, limits of HTML
Creating an XML document
Creating the prolog, XML declaration.
Displaying and processing an XML document.

Homework/Lab:
Read the chapters for the lecture material.
Using the material covered in class set up some XML pages.
Create an XML document with prolog, declaration and CDATA section.
Performance objectives:
The students will set up pages using all the basic XML commands.
The students will design some XML pages
The students use elements and attributes in an XML document.
WEEK 4-6 (6/9 HOURS)
Lecture:
Use XML as data source.
Working with fields, records, and recordsets.
Setting up data islands.
Using multiple records
Working with data binding.
Homework/Lab:
Read the chapters for the lecture material.
Use XML to process data source.
Use fields, records, recordsets, and data islands.
Do an XML project illustrating material covered so far.
Performance objectives:
The students use fields, records, recordsets, and data islands.
The students set up an XML document using the material covered so far.
WEEK 7-9 (6/9 HOURS)
Lecture:
Creating valid XML Documents
Writing Document Type Declaration (DTD)
Writing attribute types
Working with Entries,
Homework/Lab:
Read the chapters for the lecture material.
Create valid XML documents.
Use DTD, attributes and entries for valid documents.
Set up a document with string, tokenized, and enumerated types.
Performance objectives:
The students create valid XML documents.
The students use DTD, attributes and entries for valid documents.
The students use parsed and unparsed entities in attributes.
WEEK 10-12 (6/9 HOURS)
Lecture:
Working with Namespace and Schemas.
Declaring Namespace in document prolog.
Using Namespace with Attributes.
Introduction to Schemas.
Schemas, DTDs, and dialects.
Working with complex types.
Homework/Lab:
Read the chapters for the lecture material.

Set up documents using Namespace and Schemas.
Apply namespace to elements and attributes.
Set up simple and complex Schemas for documents
Performance objectives:
The students use Namespace and Schemas for creating documents.
The students use elements, attributes and schema dialects.
The students attach schema to a Namespace.
WEEK 13-15 (6/9 HOURS)
Lecture:
Working with Cascading Style Sheets (CSS).
History and use of (CSS).
Defining a style.
Working with selectors, elements, and colors.
Using fonts, borders and images.
Homework/Lab:
Read the chapters for the lecture material.
Use CSS to format a document.
Use CSS to format elements and blocks.
Use CSS to handle images and page attributes.
Performance objectives:
The students use CSS to format a document.
The students use CSS to format page layout, text, images, and borders.
The students use IDs and classes.
WEEK 16-17 (4/6 HOURS)
Lecture:
Working with XSLT.
Creating an XSLT style sheet.
Creating templates and nodes.
Working with attribute nodes, and conditional nodes.
Final project goals
Homework/Lab:
Read the chapters for the lecture material.
Set up documents using XSLT.
Use templates and nodes for documents.
Use conditional nodes.
Finish final class projects.
Performance objectives:
The students use XSLT to format documents.
The students use templates and nodes.
The students use conditional nodes with if and choose commands.
WEEK 18 2 HOURS
Final project
Final exam
ASSIGNMENTS:
See content section of course outline.

METHODS OF INSTRUCTION:
Lecture, computer demonstrations, XML examples, and web searches.

METHODS OF EVALUATION:

The types of writing assignments required:

Written homework

The problem-solving assignments required:

Homework problems

Quizzes

Exams

The types of skill demonstrations required:

Class performance

Performance exams

The types of objective examinations used in the course:

Multiple choice

True/false

Matching items

Completion

Other category:

None

The basis for assigning students grades in the course:

Writing assignments: 10% - 30%

Problem-solving demonstrations: 20% - 40%

Skill demonstrations: 40% - 80%

Objective examinations: 10% - 20%

Other methods of evaluation: 0% - 0%

REPRESENTATIVE TEXTBOOKS:

Required:

Patrick Carey. New Perspectives on HTML, CSS, and XML, Comprehensive. Course Technology, 2013. Or other appropriate college level text.

ISBN: 1285059093

Reading level of text, Grade: 12+ Verified by: ev

Other textbooks or materials to be purchased by the student: USB flash drive

ARTICULATION and CERTIFICATE INFORMATION

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Transferable CSU, effective 200630

UC TRANSFER:

Not Transferable

SUPPLEMENTAL DATA:

Basic Skills: N

Classification: I

Noncredit Category: Y

Cooperative Education:

Program Status: 1 Program Applicable
Special Class Status: N
CAN:
CAN Sequence:
CSU Crosswalk Course Department: CSIS
CSU Crosswalk Course Number: 151
Prior to College Level: Y
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: C
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000179721
Sports/Physical Education Course: N
Taxonomy of Program: 070710