CCAC

COURSE OUTLINE
Instructor: Kenneth Lee Moore   **Semester/Session:** First Summer 2014

COURSE NUMBER: CIT125
COURSE TITLE: <u>Web Development</u>
CREDITS: 3

PREREQUISITES: Basic skills using a personal computer and operating system; high school Algebra**.**
COREQUISITES: None**.**
CATALOG COURSE DESCRIPTION:

This course focuses on developing skills necessary to design, create, and enhance Web pages for personal and business use. Students will acquire hands-on experience in creating and publishing Web pages that include text, hyperlinks, images, tables, frames, forms, sound, and video. Topics include: Cascading Style Sheets, JavaScript, XML, Graphics and other web media, and Web site development using a web authoring tool.

LEARNING OUTCOMES:
Upon successful completion of the course, the student will:

1. Describe the evolution of the Internet and the World Wide Web and outline the client/server model.
2. Explain Internet protocols, URLs, and domain names.
3. Employ markup tags to create Web pages containing text, lists, hyperlinks, images, tables, forms, and frames.
4. Create and use Cascading Style Sheets in writing example Web pages.
5. Create and use basic JavaScript to illustrate web page interactivity.
6. Describe server-side technologies such as CGI, and ASP which are used to develop web page interactivity.
7. Describe the different types of available web media used to create Web pages and write example Web pages using available web media.
8. Explain and put into action recommended guidelines for web site design, organization and development in the creation of a web site.
9. Use a web authoring tool to create web pages and develop a web site.

10. Create and use XML to create simple XML documents.

LISTED TOPICS:
1. Network overview and the client/server model
2. Internet history and ethical use of information
3. Internet standards, protocols, URLs, and domain names
4. Basic markup language tags
5. Enhancing Web pages with color, images and text formatting
6. Creating tables, frames, and forms
7. Creating Cascading Style Sheets
8. Developing a web site using a WYSIWYG authoring tool
9. Developing web page interactivity using JavaScript, CGI, and ASP
10. Introduction to XML
11. Using a graphics editor

Note: It is assumed that students have basic computer skills which should include using the Windows operating system, mouse and keyboard to control window components, desktop icons and dialog boxes; run concurrent applications, use the task-bar to switch between applications; perform file and disk management functions using Windows Explorer including copying files and formatting diskettes; create plain text (ASCII) files using a text editor such as Notepad; copy/paste content between and within documents; send and receive e-mail, and use a browser to access the Internet. Refer to CIT100 Introduction to Computers or CIT600 Introduction to Windows for courses that address these topics.
REFERENCE, RESOURCE, OR LEARNING MATERIAL TO BE USED BY STUDENT:

Class Section(s) Time & Location:

Section	Dates	Days	Time	Room
BIN1	5/19/14 – 7/26/14	iNet	iNet	iNet

Instructor:	Kenneth Moore	Office Hours:	By email
Website:	*mooreccac.com*	Office Location:	Boyce N427
E-Mail Address:	kmoore@ccac.edu		

Materials and Resources:

Required Text(s):	Web Development and Design Foundations with HTML 5
Required Materials:	Access to the Internet;
Blackboard Access:	http://courses.ccac.edu
Distance Learning Questions:	www.ccac.edu Select DISTANCE LEARNING from the menu. Technical Assistance: 412-237-6517 or dlsupport@ccac.edu
Tutoring:	Boyce Campus Learning Center or on-line tutoring through www.tutoring-ccac.net

Teaching Methods:

Students will do the required reading each week. Students should do the exercises in the book (do not submit). Students should submit questions about the materials to the instructor via email. There will be weekly assignments and quizzes.

Evaluation Plan:

60% of your final course grade will be determined by quizzes as follows:

    A: 100%-90%   B: 89%-80%   C: 79%-70%   D: 69%-60%

40% of your final grade will be determined by homework which will usually be uploaded to your website.

Computer Lab:

Students can use computer labs at any CCAC campus or center for purposes of completing homework assignments and accessing Blackboard and other related Web materials over the Internet. A photo ID is required to enter the Computer Lab. Students must follow posted guidelines regarding computer use. Computer Lab hours are posted each semester for each campus and center. Please consult these postings if planning on using the computer lab. Students are required to sign in when using a computer lab.

Other Policies and Procedures:

SOFTWARE:

A browser and plain text editor.

PREPARATION TIME:

To succeed in this class, you must schedule time for reading, Internet use, and for practice and lessons on a computer. The general rule of thumb is that a 3 credit class requires approximately 108 hours of work and preparation (depending on an individual student's abilities and knowledge of the material). **For a 13-week class, preparation time may average 6 -8 hours outside of schedule class time each week of the semester.**

Students with Disabilities:

The Community College of Allegheny County makes every effort to provide reasonable accommodations for students with disabilities. Questions about services and procedures for students with disabilities should be directed to the Office of Supportive Services at your campus.

Course Outline Corrections:

During the semester/session, reasonable changes to the course outline may be academically appropriate. Students will be notified of these adjustments by the instructor in a timely manner.

Course Plan:

Class Week/Date	Topic	Learning & Practice Activities	Assignments	Evaluation
Week 1 5/18/2014	Internet & WWW	Read Chapters 1	See assignment document.	Quiz Chapter 1
Week 2 5/25/2014	XHTML basics CSS for color and text	Read Chapter 2,3	See assignment document.	Quiz Chapter 2,3
Week 3 6/1/2014	Graphics Overview of web site construction	Read Chapter 4,5	See assignment document.	Quiz Chapter 4,5
Week 4 6/8/2014	Using CSS for page layout	Read Chapter 6	See assignment document.	Quiz Chapter 6
Week 5 6/15/2014	Hyper Links and Lists Tables	Read Chapter 7,8	See assignment document.	Quiz Chapter 7,8
Week 6 6/22/2014	XHTML Forms	Read Chapter 9	See assignment document.	Quiz Chapter 9
Week 7 6/29/2014	Web Development	Read Chapter 10	See assignment document.	Quiz Chapter 10
Week 8 7/6/2014	Multimedia	Read Chapter 11	See assignment document.	Quiz Chapter 11
Week 9 7/13/2014	E-commerce Overview	Read Chapters 12	See assignment document.	Quiz Chapter 12
Week 10 7/20/2014 Classes End July 26 (Saturday)	Web Promotion	Read Chapter 13	See assignment document.	Quiz Chapter 13