CENTRAL TEXAS COLLEGE
ITNW 1337
INTRODUCTION TO THE INTERNET

Semester Hours Credit: 4

INSTRUCTOR: ________________________________

OFFICE HOURS: ______________________________

I. INTRODUCTION

A. Introduction to the Internet with emphasis on using the World Wide Web to locate, transfer, and publish information and create web pages using HTML. Develop and validate simple web pages containing basic features of image and video placement; forms; frames; lists; tables; font. Techniques and understanding of most current browsers - navigating; printing; automatic ftp through the browser; establishing favorites/bookmarks; creating RSS feeds; managing cookies and other settings and services. Survey and use of emerging technologies on the Internet such as blogs, social media, QR codes, and various Internet search tools (engines, directories, metacrawlers).

B. This course serves as a required or elective course on various degree plans. Curriculum plans for degrees and certificates are listed in the current Central Texas College catalog.

C. The delivery method of this course may be traditional lecture/lab, blended lecture/lab, or online.

D. Prerequisites: None

II. LEARNING OUTCOMES

Upon successful completion of this course, Introduction to the Internet, the student will be able to:

A. Use and configure web browsers (C5, C7, C15, C18, F1, F11)
B. Use the Internet to locate, transfer, and publish information. (C5, C7, C8, C9, C15, C16, C18, F1, F2, F6, F9, F10, F13)
C. Create a basic HTML document. (C5, C7, C8, C9, C15, C16, C18, F1, F9, F10, F13)
D. Validate and evaluate created HTML documents for technical and design evaluation; use e-mail services (C5, C7, C8, C9, C15, C16, C18, F1, F9, F10, F13)
E. Determine and use common functions of current browsers – navigating; printing automatic ftp through the browser

October 2014
F. (C5, C8, C18, C19, F1, F8, F10)
G. Establish favorites/bookmarks (C5, C7, C15, C18, F1, F11)
H. Create RSS feeds; managing cookies, create series of web pages containing basic features of modern web sites (C8, C15, C20, F8, F9)
I. Develop and evaluate theme based web sites and pages (C8, C16, C17, C19, F11, F12)
J. Create blogs, QR codes, intranet server file transfers using FTP/SSH (C8, C15, C20, F8, F9)
K. Explain issues in choosing an Internet service provider. (C5, C7, C8, C9, C15, C16, C18, F1, F9, F10, F13)

III. INSTRUCTIONAL MATERIALS

A. The instructional materials identified for this course are viewable through www.ctcd.edu/books

B. Lecture Classes also require at least one USB storage device. Online students may use cloud based storage.

IV. COURSE REQUIREMENTS

A. Attend both lecture and lab or in the case of online delivery, be actively engaged in Blackboard and maintain constant progress.

B. Be prepared to participate in discussion, team projects/assignments and take unannounced assessments relating to the lecture materials.

C. Complete all exams/assessments.

D. Submit all assignments on time.

V. ASSESSMENTS

A. Student content mastery will be evaluated in the following areas:
   • Assessments (midterm exam, quizzes, projects, discussion etc.)
   • Final Assessment (final exam and/or semester project, participation)

B. Scheduled and unscheduled assessments will be given at the discretion of the instructor.

C. Exams/assessments may be composed of both subjective and objective questions plus computer output.

D. A student must take all exams/assessments. Both online and on campus students who know in advance that they will be absent due to school sponsored trips, military duty or orders, or any other valid reason, must arrange to take an early
Unexpected absences due to illness or other extenuating circumstances will require the student to contact the instructor about make-up work in lieu of the missed exam/assessment.

E. Students with unexcused absences will be given a zero for each missed assignment.

VI. SEMESTER GRADE COMPUTATION

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Points</th>
<th>Points</th>
<th>Grade</th>
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<tr>
<td>Assignments</td>
<td>300</td>
<td>900-1000</td>
<td>A-Superior</td>
<td>4</td>
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<tr>
<td>Assessments</td>
<td>300</td>
<td>800-899</td>
<td>B-Above Average</td>
<td>3</td>
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<tr>
<td>Final Assessment</td>
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<td>700-799</td>
<td>C-Average</td>
<td>2</td>
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<tr>
<td></td>
<td></td>
<td>600-699</td>
<td>D — Passing but Unsatisfactory</td>
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<tr>
<td>TOTAL</td>
<td>1000</td>
<td>0-599</td>
<td>F-Failure</td>
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</table>

VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM THE INSTRUCTOR

A. Course Withdrawal: It is the student’s responsibility to officially withdraw from a course if circumstances prevent attendance. Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file a Central Texas College Application for Withdrawal (CTC Form 59). The student must sign the withdrawal form.

CTC Form 59 will be accepted at any time prior to Friday of the 12th week of classes during the 16-week fall and spring semesters. The deadline for sessions of other lengths is:

- 10-week session: Friday of the 8th week
- 8-week session: Friday of the 6th week
- 5-week session: Friday of the 4th week

The equivalent date (75% of the semester) will be used for sessions of other lengths. The specific last day to withdraw is published each semester in the Schedule Bulletin.

For non-GoArmyEd active military students, the effective date of withdrawal is the filing date with the Education Center. For all other students, the effective date of withdrawal is the date that the withdrawal application is received by the Central Texas College representative.

Students who used financial aid, military tuition assistance, VA benefits, or other non-personal funds may be required to repay tuition and fees to the funding agency. For specific repayment requirements, contact the Office of Student Financial Aid or Veterans Services Office before withdrawing. Military tuition assistance students should visit their military Education Center or Navy

ITNW 1337
College Office.

A student who officially withdraws will be awarded the grade of “W” provided the student’s attendance and academic performance are satisfactory at the time of official withdrawal. Students must file a withdrawal application with the College before they may be considered for withdrawal.

A student may not withdraw from a class for which the instructor has previously issued a grade of “F,” “FI,” “FN,” “IP,” or “XN.”

B. Instructor Initiated Withdrawals: Faculty are authorized to withdraw students who are not making satisfactory course progress to include failure to meet College attendance requirements as outlined in the section of the Catalog entitled “Satisfactory Progress Standards.” The instructor will assign the appropriate grade on CTC Form 59 for submission to the registrar.

Students enrolled in distance learning courses are expected to maintain constant progress throughout the course. Failure to do so may result in the student being administratively withdrawn by the instructor.

Students who have not attended class by the 12th class day of a 16-week course or the 6th class day of an 8-week term may be administratively withdrawn by the instructor with a grade of “W.” Students may also be administratively withdrawn from any class when their absences exceed a total of four class meetings for a 16-week course or three class meetings for less than 16-week courses and; in the opinion of the instructor, the student cannot satisfactorily complete the course. In a distance learning course the last date of attendance is the last activity by the student in the course.

C. Administrative Withdrawal: A student may be administratively withdrawn by a designated member of the administrative staff of the College when the student has been placed on Academic Suspension or Disciplinary Suspension; the student has an outstanding financial obligation owed to the college; or the student registered for a course without the required prerequisite or departmental permission.

The College is under no obligation to refund tuition and fees, or other costs associated with an administrative or instructor initiated withdrawal.

D. Incomplete Grade: The College catalog states, “An incomplete grade may be given in those cases where the student has completed the majority of the coursework but, because of personal illness, death in the immediate family, or military orders, the student is unable to complete the requirements for a course...” Prior approval from the instructor is required before the grade of “IP” for Incomplete is recorded.
E. **Cell Phones and Pagers:** Students will silence cell phones and mobile devices while in the classroom or lab.

F. **Americans with Disabilities Act (ADA):** Disability Support Services provide services to students who have appropriate documentation of a disability. Students requiring accommodations for class are responsible for contacting the Office of Disability Support Services (DSS) located on the central campus. This service is available to all students, regardless of location. Review the website at [www.ctcd.edu/disability-support](http://www.ctcd.edu/disability-support) for further information. Reasonable accommodations will be given in accordance with the federal and state laws through the DSS office.

G. **Instructor Discretion:** The instructor reserves the right of final decision in course requirements and may make changes to the course outline and/or assignments as needed.

H. **Civility:** Individuals are expected to be aware of what a constructive educational experience is and be respectful of those participating in a learning environment. Failure to do so can result in disciplinary action up to and including expulsion.

I. **Degree Progression:** Students who receive a grade of “D” are advised not to enroll in the next course for which this course was a prerequisite.

J. **Failing Grade:** The grade of “F” or “FN” will be given for academic failure, non-attendance or scholastic dishonesty.

K. **Scholastic Honesty:** All students are expected to maintain the highest standards of scholastic honesty in the preparation of all course work and during examinations. The college policy on scholastic honesty, including definitions on plagiarism, collusion, and cheating can be found at the following URL: [http://online.ctcd.edu/plagiarism.cfm](http://online.ctcd.edu/plagiarism.cfm)
VIII. COURSE OUTLINE

A. Lesson One: Overview of the Internet and Web 2.0.

1. Learning Outcomes: Upon successful completion of this lesson, the student will be able to:
   a. Define the Internet and describe how the Internet is used
   b. Discuss the history of the Internet and the World Wide Web
   c. Describe a Web site, common Web page characteristics, and Web servers
   d. Explain the role IP addresses, domain names, and URLs play in locating Web pages
   e. Start a Web browser, modify settings, and view Web pages
   f. Discuss the risks and safeguards related to using the Web
   g. Describe the search process
   h. Use different types of search tools and compare search results
   i. Discuss differences between Web and Web 2.0
   j. Define "Web browser"

2. Learning Activities
   a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
   b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
   c. Participate in collaborative discussions based on the assigned reading materials. (C9, C12, C14, F1, F2, F5, F6)
   d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. Lesson Outline
   a. Discuss historic and current developments in the growth of the Internet.
   b. Categorize Internet connectivity components.
   c. Identify and distinguish Internet search tools including search engines, web crawlers, and search services.
   d. Complete both written and lab exercises implementing lesson topics

B. Lesson Two: Communication and publishing online

1. Learning Outcomes: Upon successful completion of this lesson, the student will be able to:
   a. Describe the components of e-mail systems and e-mail messages
   b. Discuss and apply e-mail etiquette
   c. Set up a Web-based e-mail account and use Web-based e-mail services
   d. Describe various online social media tools and discuss how they are used.
   e. Describe and give examples of different types of portals and their target audiences
   f. Identify and use various online tools and resources
   g. Download and share files over the Internet
h. Define and discuss blogs and wikis
i. Explain the structure of Web-based applications
j. Differentiate among the three tiers of Web application architecture: presentation tier, middle tier, and database tier
k. Define and discuss syndication
l. Define and discuss Web feed
m. Define and discuss RSS (Really Simple Syndication)
n. Define and discuss podcast

2. Learning Activities
   a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
   b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
   c. Participate in collaborative discussions based on the assigned reading materials. (C9, C12, C14, F1, F2, F5, F6)
   d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. Lesson Outline
   a. Discuss historic and current developments in the growth of email and social media.
   b. Categorize online tools and resources.
   c. Identify and distinguish online communication, publication, and syndication.
   d. Complete both written and lab exercises implementing lesson topics.

C. Lesson Three: HTML5 and CSS

1. Learning Outcomes: Upon successful completion of this lesson, the student will be able to:
   a. Describe the types and purposes of Web sites
   b. Define the Hypertext Markup Language (HTML) and HTML5 standards used for Web development
   c. Discuss the use of Cascading Style Sheets (CSS) in Web development
   d. Define Extensible Hypertext Markup Language (XHTML) and describe its relationship to HTML
   e. Identify tools used to create HTML documents
   f. Describe the five phases of the Web development life cycle
   g. Describe the different methods of Web site design and the purpose of each Web site structure
   h. Discuss the importance of testing throughout the Web development life cycle
   i. Explain the importance of being an observant Web user

2. Learning Activities
   a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)

c. Participate in collaborative discussions based on the assigned reading materials. (C9,C12,C14,F1, F2, F5, F6)

d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. Lesson Outline

a. Develop a basic HTML document.

b. Identify methods of information organization the Web.

c. Describe Web site design and the phases of the development lifecycle.

d. Complete both written and lab exercises implementing lesson topics.

D. Lesson Four: Inline styles, embedded style sheets, and linking data

1. Learning Outcomes: Upon successful completion of this lesson, the student will be able to:

a. Identify elements of a Web page

b. Enter HTML tags

c. Create an unordered, ordered, or definition list

d. Identify Web page image types and attributes

e. View the HTML source code in a browser

f. Describe linking terms and definitions

g. Change body and heading format using embedded (internal) style sheets

h. Use absolute and relative paths

i. Save, validate, and view an HTML file and test the links

j. Define Cloud computing

k. Define IaaS, PaaS, and SaaS

l. Define virtualization

m. Define API (application programming interface)

2. Learning Activities

a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)

b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)

c. Participate in collaborative discussions based on the assigned reading materials. (C9,C12,C14,F1, F2, F5, F6)

d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. Lesson Outline

a. Create and edit a webpage using inline styles and embedded style sheets.

b. Link data using hypertext.

c. Define and discuss cloud computing.

d. Complete both written and lab exercises implementing lesson topics.

E. Lesson Five: Tables in HTML
1. **Learning Outcomes:** Upon successful completion of this lesson, the student will be able to:
   a. Define table elements
   b. Describe the steps used to plan, design, and code a table
   c. Create a borderless table for a horizontal navigation bar with text links
   d. Create an external style sheet to define styles across a Web site
   e. Utilize classes to give you more control over styles
   f. Link an external style sheet to Web pages where you want its styles applied
   g. Create a table with borders and insert text
   h. Use the box-shadow property to alter the appearance of an image
   i. Alter the spacing between and within cells using the border spacing and padding properties
   j. Utilize inline styles to alter the style of individual elements on a Web page
   k. Add background color to rows and cells
   l. Insert a caption below a table
   m. Create headings that span rows using the rowspan attribute

2. **Learning Activities**
   a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
   b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
   c. Participate in collaborative discussions based on the assigned reading materials. (C9,C12,C14,F1, F2, F5, F6)
   d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. **Lesson Outline**
   a. Develop HTML documents with table elements.
   b. Utilize classes to control styles.
   c. Implement external style sheets.
   d. Complete both written and lab exercises implementing lesson topics.

F. **Lesson Six: Image Maps and Forms**

1. **Learning Outcomes:** Upon successful completion of this lesson, the student will be able to:
   a. Define terms relating to image mapping
   b. List the differences between server-side and client-side image maps
   c. Name the two components of an image map and describe the steps to implement an image map
   d. Distinguish between appropriate and inappropriate images for mapping
   e. Sketch hotspots on an image
   f. Describe how the x- and y-coordinates relate to vertical and horizontal alignment
g. Open an image in Paint and use Paint to locate the image map coordinates
h. Define terms related to forms
i. Describe the different form controls and their uses

2. **Learning Activities**
a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
c. Participate in collaborative discussions based on the assigned reading materials. (C9,C12,C14,F1, F2, F5, F6)
d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. **Lesson Outline**
a. Define and create an image map.
b. Implement accurate vertical and horizontal alignment
c. Create a web form.
d. Describe and create form controls.
e. Complete both written and lab exercises implementing lesson topics.

G. **Lesson Seven: Advanced Cascading Style Sheets**

1. **Learning Outcomes:** Upon successful completion of this lesson, the student will be able to:
   a. Add an embedded style sheet to a Web page
   b. Change the body and link styles using an embedded style sheet
c. Create a drop-down menu using an embedded style sheet
d. Change the color and font styles of the drop-down menus
e. Create an external style sheet
f. Change the paragraph margins and font styles using an external style sheet
g. Create a pop-up effect using an external style sheet
h. Use classes, pseudoclasses, and divisions for the pop-up effect
i. Use the `<link>` tag to insert a link to an external style sheet
j. Add an external style sheet for printing Web pages

2. **Learning Activities**
a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
c. Participate in collaborative discussions based on the assigned reading materials. (C9,C12,C14,F1, F2, F5, F6)
d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. **Lesson Outline**
a. Implement an embedded style sheet.
b. Create an external style sheet with popup effects.
c. Discuss classes, pseudoclasses, and divisions.
d. Complete both written and lab exercises implementing lesson topics.

H. Lesson Eight: Multimedia Content and Frames

1. Learning Outcomes: Upon successful completion of this lesson, the student will be able to:
   a. Describe the benefits and limitations of multimedia in Web sites
   b. Identify audio and video formats
   c. Describe parameters for embedded multimedia
   d. Add an audio clip to a Web page using the HTML5 audio element
   e. Add a video clip to a Web page using the HTML5 video element
   f. Define terms related to frames
   g. Identify all parts of a framed Web site structure
   h. Discuss the purpose and design of a frame definition file
   i. Determine a structure to replace frames on a Web site
   j. Develop a Web site to replace frames

2. Learning Activities
   a. Read the assigned chapter(s) in the textbook. (C5, C6, F1)
   b. Use online resources to review lesson content. (C3, C8, F1, F2, F9, F11)
   c. Participate in collaborative discussions based on the assigned reading materials. (C9, C12, C14, F1, F2, F5, F6)
   d. Complete the assigned projects and in-lab exercises. (C5, C6, C7, C8, F1, F2, F10)

3. Lesson Outline
   a. Identify the different types of multimedia content.
   b. Insert multimedia elements in Web pages.
   c. Develop Web pages with and without frames
   d. Complete both written and lab exercises implementing lesson topics.