

Course Outline

School:	Eng. Tech. & Applied Science
Department:	Information and Communication Engineering Technology (ICET)
Course Title:	Web Interface Design
Course Code:	COMP 213
Course Hours/Credits:	56
Prerequisites:	N/A
Co-requisites:	N/A
Eligible for Prior Learning, Assessment and Recognition:	Yes
Originated by:	Joanne Filotti
Creation Date:	Fall 2005
Revised by:	Joanne Filotti
Revision Date:	Summer 2015
Current Semester:	Summer 2015
Approved by:	<i>p pesikan</i> <i>l c/o</i>

Chairperson/Dean

Students are expected to review and understand all areas of the course outline.

Retain this course outline for future transfer credit applications. A fee may be charged for additional copies.

This course outline is available in alternative formats upon request.

Course Description

Web Interface Design is the first course in a sequence of courses (COMP213, COMP229, and a range of elective advanced web courses) designed to teach students all the important current concepts and technologies related to developing powerful Internet applications.

In this first level web course the student will learn how to access the resources of the Internet, use HTML and CSS to publish high-quality Web documents that observe widely accepted design guidelines, and enable web documents to share business data using XML.

Program Outcomes

Successful completion of this and other courses in the program culminates in the achievement of the Vocational Learning Outcomes (program outcomes) set by the Ministry of Training, Colleges and Universities in the Program Standard. The VLOs express the learning a student must reliably demonstrate before graduation. To ensure a meaningful learning experience and to better understand how this course and program prepare graduates for success, students are encouraged to review the Program Standard by visiting <http://www.tcu.gov.on.ca/pepg/audiences/colleges/progstan/>. For apprenticeship-based programs, visit <http://www.collegeoftrades.ca/training-standards>.

Course Learning Outcomes

The student will reliably demonstrate the ability to:

1. Use various software applications to browse the Internet, transfer files, and send email
2. Create HTML documents for the World Wide Web
3. Demonstrate knowledge of current design concepts for the Internet documents
4. Use CSS to implement the design of a multi-page website
5. Publish and maintain a website
6. Use XML to create documents that transfer business information over the Internet

Essential Employability Skills (EES)

The student will reliably demonstrate the ability to*:

1. Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.
2. Respond to written, spoken, or visual messages in a manner that ensures effective communication.
5. Use a variety of thinking skills to anticipate and solve problems.
6. Locate, select, organize, and document information using appropriate technology and information systems.
7. Analyze, evaluate, and apply relevant information from a variety of sources.
10. Manage the use of time and other resources to complete projects.

**There are 11 Essential Employability Skills outcomes as per the Ministry Program Standard. Of these 11 outcomes, the following will be assessed in this course.*

Global Citizenship and Equity (GC&E) Outcomes

The student will reliably demonstrate the ability to*:

2. Identify beliefs, values and behaviours that form individual and community identities and the basis for respectful relationships.

**There are 6 institutional Global Citizenship & Equity outcomes. Of these 6 outcomes, the following will be assessed in this course.*

Methods of Instruction

Lecture,
demonstrations and
hands-on exercises,
class discussions

Text and other Instructional/Learning Materials

Text Book(s):

Felke-Morris, T. 2015. Basics of Web Design HTML5 & CSS3, Third Edition.
Pearson Education.

ISBN 10: 0133970744

ISBN 13: 978 0133970746

Online Resource(s):

Textbook website: <http://webdevbasics.net/3e/index.html>

Course website

Classroom and Equipment Requirements

Major Browsers (current version)

MS Expression Web (current version)

TextPad (current version)

Evaluation Scheme

- ✦ Assignment 1: Creating a home page on the college web server
- ✦ Assignment 2: Creating a page with hyperlinks and basic CSS styling
- ✦ Assignment 3: Creating a page with HTML tables
- ✦ Written Test 1: multiple choice, short answer, fill-in-the-blank, t/f questions
- ✦ Practical Test 1: Create a web page with text, images, lists, tables, hyperlinks, CSS
- ✦ Assignment 4: Creating and styling an online form
- ✦ Practical Test 2: Create an HTML form, style it using CSS, apply web design concepts
- ✦ Project: Create a website for a small business
- ✦ Written Test 2: multiple choice, short answer, fill-in-the-blank, t/f questions

Evaluation Name	CLO(s)	EES Outcome(s)	GCE Outcome(s)	Weight/100
Assignment 1	1, 2, 5	1	2	5
Assignment 2	1, 2, 3	1, 5, 6, 7		5
Assignment 3	1, 2, 3, 4	1, 5, 6, 7		5
Written Test 1	2, 3, 4	1, 2, 5		15
Practical Test 1	1, 2, 3, 4	1, 2, 5		15
Assignment 4	1, 2, 3	1, 2, 5	2	5
Practical Test 2	1, 2, 3	1, 2, 5		15
Project	1, 2, 3, 4, 5, 6	1, 2, 5, 6, 7, 10	2	20
Written Test 2	2, 3, 6	1, 2, 5		15
Total				100%

If students are unable to write a test they should immediately contact their professor or program Chair for advice. In exceptional and well documented circumstances (e.g. unforeseen family problems, serious illness, or death of a close family member), students may be able to write a make-up test.

All submitted work may be reviewed for authenticity and originality utilizing Turnitin®. Students who do not wish to have their work submitted to Turnitin® must, by the end of the second week of class, communicate this in writing to the instructor and make mutually agreeable alternate arrangements.

When writing tests, students must be able to produce official College photo identification or they may be refused the right to take the test or test results will be void.

Student Accommodation

It is College Policy to provide accommodation based on grounds defined in the Ontario Human Rights Code. Accommodation may include modifications to standard practices. Students with disabilities who require academic accommodations must register with the Centre for Students with Disabilities. Students requiring accommodation based on other human rights grounds should talk with their professors as early as possible. Please see the Student Accommodation Policy.

Use of Dictionaries

- Any dictionary (hard copy or electronic) may be used in regular class work.
- Dictionaries may be used in tests and examinations, or in portions of tests and examinations, as long as they are non-electronic (not capable of storing information) and hard copy (reviewed by the invigilator to ensure notes are not incorporated that would affect test or examination integrity).
- Any dictionary (hard copy or electronic) may be used in regular class work.
- Dictionaries may be used in tests and examinations, or in portions of tests and examinations, as long as they are non-electronic (not capable of storing information) and hard copy (reviewed by the invigilator to ensure notes are not incorporated that would affect test or examination integrity).

Program or School Policies

N/A

Course Policies

A student must obtain a passing grade on the term test portion of the course in order to pass this course (i.e. a minimum of 35% out of 70%).

College Policies

Students should familiarize themselves with all College Policies that cover academic matters and student conduct.

All students and employees have the right to study and work in an environment that is free from discrimination and harassment and promotes respect and equity. Centennial policies ensure all incidents of harassment, discrimination, bullying and violence will be addressed and responded to accordingly.

Academic honesty is integral to the learning process and a necessary ingredient of academic integrity. Academic dishonesty includes cheating, plagiarism, and impersonation. All of these occur when the work of others is presented by a student as their own and/or without citing sources of information. Breaches of academic honesty may result in a failing grade on the assignment/course, suspension or expulsion from the college.

For more information on these and other policies, please visit www.centennialcollege.ca/about-centennial/college-overview/college-policies.

Students enrolled in a joint or collaborative program are subject to the partner institution's academic policies.

PLAR Process

This course is eligible for Prior Learning Assessment and Recognition (PLAR). PLAR is a process by which course credit may be granted for past learning acquired through work or other life experiences. The PLAR process involves completing an assessment (portfolio, test, assignment, etc.) that reliably demonstrates achievement of the course learning outcomes. Contact the academic school to obtain information on the PLAR process and the required assessment.

This course outline and its associated weekly topical(s) may not be reproduced, in whole or in part, without the prior permission of Centennial College.

Topical Outline (subject to change):

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name	Evaluation Date
1	Internet Fundamentals: <ul style="list-style-type: none"> o The Internet and the Web o Web Standards and Accessibility o Web Browsers and Web Servers o Internet Protocols o URIs and Domain Names o HTML, XHTML, and HTML5 Overview o First Web Page o Head, Body, Title, and Meta Elements 	Chapter 1 <ul style="list-style-type: none"> • Supplemental online material • Lecture slides Course website resources	1. Use various software applications to browse the Internet, transfer files, and send email. 2. Create HTML documents for the World Wide Web.	Lecture, demonstrations and hands-on exercises, class discussions		
2	HTML Basics: <ul style="list-style-type: none"> o Heading Element o Paragraph Element o Line Break and Horizontal Rule o Logical Style Elements o Unordered List Element o Ordered List Element o Definition List Element o Special Entity Characters o HTML5 Syntax Validation o CSS Selectors o Configure Inline CSS o CSS Syntax for Fonts and Colors o Image Element 	Chapters 2, (4, 5) <ul style="list-style-type: none"> • Supplemental online material • Lecture slides Course website resources	2. Create HTML documents for the World Wide Web. 3. Demonstrate knowledge of current design concepts for the Internet documents.	Lecture, demonstrations and hands-on exercises, class discussions	Assignment 1	
3	Hyperlinks <ul style="list-style-type: none"> o Anchor Element o Absolute and 	Chapters 2, (4,5, 8) <ul style="list-style-type: none"> • Supplemental online material 	2. Create HTML documents for the World Wide Web. 3. Demonstrate knowledge of current design	2. Create HTML documents for the World Wide Web.	Assignment 2	

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name	Evaluation Date
	<ul style="list-style-type: none"> Relative Hyperlinks o Practice with Hyperlinks o E-mail Hyperlinks o Fragment Identifiers o Hover Effects with CSS o Image Hyperlinks 	<ul style="list-style-type: none"> • Lecture slides Course website resources 	<ul style="list-style-type: none"> concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website. 	<ul style="list-style-type: none"> 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website. 		
4	<ul style="list-style-type: none"> Web Design Basics: o Design for Your Target Audience o Website Organization o Principles of Visual Design o Design to Provide for Accessibility o Use of Text, Color o Web Color Palette o Use of Graphics and Multimedia o Navigation Design o Page Layout Design o Web Design Best Practices 	<ul style="list-style-type: none"> Chapter 3 • Supplemental online material • Lecture slides Course website resources 	<ul style="list-style-type: none"> 2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website. 	<ul style="list-style-type: none"> Lecture, demonstrations and hands-on exercises, class discussions 		
5	<ul style="list-style-type: none"> HTML Tables o Table Overview o Table Rows, Cells, and Headers o Span Rows and Columns o Configure an Accessible Table o Style a Table with CSS 	<ul style="list-style-type: none"> Chapter 9 • Supplemental online material • Lecture slides Course website resources 	<ul style="list-style-type: none"> 2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website. 	<ul style="list-style-type: none"> Lecture, demonstrations and hands-on exercises, class discussions 	Assignment 3	
6	<ul style="list-style-type: none"> Working with Images: o Type of Web Graphics o Image Element o Optimize a Photo for the Web o Configure Background Images 	<ul style="list-style-type: none"> Chapter 5 • Supplemental online material • Lecture slides Course website resources 	<ul style="list-style-type: none"> 2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website. 	<ul style="list-style-type: none"> Lecture, demonstrations and hands-on exercises, class discussions 	Written Test 1	

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name	Evaluation Date
	<ul style="list-style-type: none"> o CSS3 Background Image Properties o CSS3 Opacity and Gradients o The Favorites Icon o Configure List Markers with CSS 					
7	Review	N/A	N/A	Class discussions	Practical Test 1	
8	More CSS and Page Layout Basics: <ul style="list-style-type: none"> o Text Properties with CSS o The Box Model o Margin and Padding with CSS o Borders with CSS o CSS3 Rounded Corners o Center Page Content with CSS o CSS3 Box Shadow and Text Shadow o Normal Flow o Relative and Absolute Positioning o Float o CSS Two-Column Page Layout o CSS for Print o CSS for the Mobile Web o Compatibility with Older Browsers 	Chapters 6, 7, (8) <ul style="list-style-type: none"> • Supplemental online material • Lecture slides Course website resources	2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website.	Lecture, demonstrations and hands-on exercises, class discussions		
9-10	HTML Forms <ul style="list-style-type: none"> o Form Overview o Form Fields o Style a Form with CSS o HTML5 Form fields 	Chapter 10 <ul style="list-style-type: none"> • Supplemental online material • Lecture slides Course website resources	2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website.	Lecture, demonstrations and hands-on exercises, class discussions	Assignment 4	
11	Dynamic Web Templates	<ul style="list-style-type: none"> • Supplemental online material 	2.Create HTML documents for the World Wide Web.	Lecture, demonstrations and	Project	

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name	Evaluation Date
		Course website resources	3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website.	hands-on exercises, class discussions		
12	Media and Interactivity: o Web Multimedia o Configure Sound and Video Element o HTML5 Audio, Video and Embed Element o Audio and Video with the Object	Chapter 11 • Supplemental online material • Lecture Course website resources slides	2.Create HTML documents for the World Wide Web. 3.Demonstrate knowledge of current design concepts for the Internet documents. 4.Use CSS to implement the design of a multi-page website.	Lecture, demonstrations and hands-on exercises, class discussions		
13	Web Publishing and Maintenance: o Register a Domain Name o Choose a Web Host o Publish with File Transfer Protocol o Search Engine Submission o Search Engine Optimization o Accessibility Testing o Usability Testing	Chapter 12 • Supplemental online material • Lecture slides Course website resources	5.Publish and maintain a website.	Lecture, demonstrations and hands-on exercises, class discussions	Practical Test 2	
14	Introduction to XML: o Compare HTML and XML o Describe the structure of an XML document o Create custom elements and attributes o Link an XML documents to a style sheet o Display an XML document in the browser Review	• Supplemental online material • Lecture slides Course website resources	6.Use XML to create documents that transfer business information over the Internet.	Lecture, demonstrations and hands-on exercises, class discussions	Written Test 2	