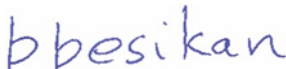# Course Outline

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 2016
Current Semester:	Winter 2023
Approved by:	ppesikan c/o

_____
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.

Acknowledgement of Traditional Lands

Centennial is proud to be a part of a rich history of education in this province and in this city. We acknowledge that we are on the treaty lands and territory of the Mississaugas of the Credit First Nation and pay tribute to their legacy and the legacy of all First Peoples of Canada, as we strengthen ties with the communities we serve and build the future through learning and through our graduates. Today the traditional meeting place of Toronto is still home to many Indigenous People from across Turtle Island and we are grateful to have the opportunity to work in the communities that have grown in the treaty lands of the Mississaugas. We acknowledge that we are all treaty people and accept our responsibility to honor all our relations.

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 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
⇨ Assignment 4: Creating and styling an online form
⇨ 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	10
Assignment 2	1, 2, 3	1, 5, 6, 7		10
Assignment 3	1, 2, 3, 4	1, 5, 6, 7		10
Written Test 1	2, 3, 4	1, 2, 5		20
Assignment 4	1, 2, 3	1, 2, 5	2	10
Project	1, 2, 3, 4, 5, 6	1, 2, 5, 6, 7, 10	2	20
Written Test 2	2, 3, 6	1, 2, 5		20
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 Centennial College photo identification or they may be refused the right to take the test or test results will be void.

Tests or assignments conducted remotely may require the use of online proctoring technology where the student's identification is verified and their activity is monitored and/or recorded, both audibly and visually through remote access to the student's computer and web camera. Students must communicate in writing to the instructor as soon as possible and prior to the test or assignment due date if they require an alternate assessment format to explore mutually agreeable alternatives.

Student Accommodation

The Centre for Accessible Learning and Counselling Services (CALCS) (http://centennialcollege.ca/calcs) provides programs and services which empower students in meeting their wellness goals, accommodation and disability-related needs. Our team of professional psychotherapists, social workers, educators, and staff offer brief, solution-focused psychotherapy, accommodation planning, health and wellness education, group counselling, psycho-educational workshops, adaptive technology, and peer support. Walk in for your first intake session at one of our service locations (Ashtonbee Room L1-04, Morningside Room 190, Progress Room C1-03, The Story Arts Centre Room 285, Downsview Room 105) or contact us at calcs@centennialcollege.ca, 416-289-5000 ext. 3850 to learn more about accessing CALCS services.

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).

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

Academic honesty is integral to the learning process and a necessary ingredient of academic integrity. Forms of academic dishonesty include cheating, plagiarism, and impersonation, among others. Breaches of academic honesty may result in a failing grade on the assignment or course, suspension, or expulsion from the college. Students are bound to the College's AC100-11 Academic Honesty and Plagiarism policy.

To learn more, please visit the Libraries information page about Academic Integrity https://libraryguides.centennialcollege.ca/academicintegrity and review Centennial College's Academic Honesty Module:
https://myappform.centennialcollege.ca/ecentennial/articulate/Centennial_College_Academic_Integrity_Module_%202/story.html

Use of Lecture/Course Materials

Materials used in Centennial College courses are subject to Intellectual Property and Copyright protection, and as such cannot be used and posted for public dissemination without prior permission from the original creator or copyright holder (e.g., student/professor/the College/or third-party source). This includes class/lecture recordings, course materials, and third-party copyright-protected materials (such as images, book chapters and articles). Copyright protections are automatic once an original work is created, and applies whether or not a copyright statement appears on the material. Students and employees are bound by College policies, including AC100-22 Intellectual Property, and SL100-02 Student Code of Conduct, and any student or employee found to be using or posting course materials or recordings for public dissemination without permission and/or inappropriately is in breach of these policies and may be sanctioned.

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.

Semester: Winter 2023   Professor Name: See eCentennial course shell
Section Code: ALL   Contact Information: See eCentennial course shell
Meeting Time & Location: See myCentennial timetable   Delivery Method: See myCentennial timetable

Topical Outline (subject to change):

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name and Weight	Evaluation Date
1	Internet Fundamentals: oThe Internet and the Web oWeb Standards and Accessibility oWeb Browsers and Web Servers oInternet Protocols oURIs and Domain Names oHTML, XHTML, and HTML5 Overview oFirst Web Page oHead, Body, Title, and Meta Elements	Chapter 1 •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: oHeading Element oParagraph Element oLine Break and Horizontal Rule oLogical Style Elements oUnordered List Element oOrdered List Element oDefinition List Element oSpecial Entity Characters oHTML5 Syntax Validation	Chapters 2, (4, 5) •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	

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name and Weight	Evaluation Date
	oCSS Selectors oConfigure Inline CSS oCSS Syntax for Fonts and Colors oImage Element					
3	Hyperlinks oAnchor Element oAbsolute and Relative Hyperlinks oPractice with Hyperlinks oE-mail Hyperlinks oFragment Identifiers oHover Effects with CSS oImage Hyperlinks	Chapters 2, (4,5, 8) •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.	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.	Assignment 2	
4	Web Design Basics: oDesign for Your Target Audience oWebsite Organization oPrinciples of Visual Design oDesign to Provide for Accessibility oUse of Text, Color oWeb Color Palette oUse of Graphics and Multimedia oNavigation Design oPage Layout Design oWeb Design Best Practices	Chapter 3 •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		
5	HTML Tables oTable Overview oTable Rows, Cells, and Headers oSpan Rows and Columns	Chapter 9 •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 3	

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name and Weight	Evaluation Date
	oConfigure an Accessible Table oStyle a Table with CSS					
6	Working with Images: oType of Web Graphics oImage Element oOptimize a Photo for the Web oConfigure Background Images oCSS3 Background Image Properties oCSS3 Opacity and Gradients oThe Favorites Icon oConfigure List Markers with CSS	Chapter 5 •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		
7	Review	N/A	N/A	Class discussions	Written Test 1	
8	More CSS and Page Layout Basics: oText Properties with CSS oThe Box Model oMargin and Padding with CSS oBorders with CSS oCSS3 Rounded Corners oCenter Page Content with CSS oCSS3 Box Shadow and Text Shadow oNormal Flow oRelative and Absolute Positioning oFloat oCSS Two-Column Page Layout	Chapters 6, 7, (8) •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		

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name and Weight	Evaluation Date
	oCSS for Print oCSS for the Mobile Web oCompatibility with Older Browsers					
9-10	HTML Forms oForm Overview oForm Fields oStyle a Form with CSS oHTML5 Form fields	Chapter 10 •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	•Supplemental online material 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	Project	
12	Media and Interactivity: oWeb Multimedia oConfigure Sound and Video Element oHTML5 Audio, Video and Embed Element oAudio 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: oRegister a Domain Name oChoose a Web Host oPublish with File Transfer Protocol oSearch Engine Submission oSearch Engine Optimization oAccessibility 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		

Week	Topics	Readings/Materials	Weekly Learning Outcome(s)	Instructional Strategies	Evaluation Name and Weight	Evaluation Date
	oUsability Testing					
14	Introduction to XML: oCompare HTML and XML oDescribe the structure of an XML document oCreate custom elements and attributes oLink an XML documents to a style sheet oDisplay 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	