



Columbia College

Vancouver, Canada

Course Outline			
Term: Summer 2024	Course No: CSCI 165	Course Credits: 3	
Instructor: Jetic Gū	Course Section No: 16	Total Hours: 5	Total Weeks: 13
Instructor Office: Room No. 544 Main Campus	Course Title: Introduction to The Internet and The World-Wide Web	Main Campus Main Building RM-420	
Instructor Email: jgu@columbiacollege.ca			
Class Meeting Days/Time: Monday and Thursday from 16:00 to 17:55, Wednesday from 16:00 to 16:55			
Instructor Office Hours: W: 13:00-16:00		Course Format: In person delivery	
Course Prerequisites None		Course Corequisites English 098	
Transferability to: visit bctransferguide.ca			

Course Description:

This course is an elementary introduction to the Internet and the World Wide Web. Students will learn the client-server model, Internet protocols, domain names and URLs, websites, and Web hosting. They will also learn HTML, CSS, JavaScript, and XML. Students will program both in client and server-side environments and develop data-driven Web applications. They will also learn to deploy applications on web hosting servers.

Additional Course Details:

1. Laptop: Student must have a laptop.
2. Internet Access: Mandatory.
3. Check-in: Must check your email, Moodle, and Course Website regularly.
4. Time needed to spend on course: Recommended to spend a minimum of 5 hours each week working on this course outside of class time.

Required Texts/Readings/Learning Resources:

Textbook

<https://www2.cs.sfu.ca/CourseCentral/165/common/study-guide/>

<https://www.w3schools.com/>

Course Learning Outcomes: Upon successful completion of this course the student will be able to:

1. Understand and explain the high-level ideas of the internet and the world wide web such as internet protocols, domain name servers, internet service providers, etc.;
2. Use different levels of CSS to style HTML pages;
3. Design, implement, and deploy interactive HTML pages that perform tasks based on input data;
4. Use jQuery and Raphael libraries;
5. Do basic server-side programming with Node.js;
6. Put different programming components together to make a complete web application.

Course Content/Schedule*

Week	Topic(s)	Readings	Assessments	Briefly describe list (via number) the outcomes linked to the assessments.
1	Lecture 1: The Internet and the World-Wide Web	Part 1 of study guide Lecture notes		<ul style="list-style-type: none">• Describe several major hardware and software components, including how they are related to the Internet infrastructure.• Structure of the Internet and basics of networking.• Describe the role and importance of TCP/IP on the Internet.• Describe how the DNS system works.• Define the terms "domain" and "top-level domain".• List several application levels of protocol (e.g., POP, SMTP, FTP, and HTTP).
2	Lecture 2: Markup and HTML	Part 2 of study guide Lecture notes	Lab 1	<ul style="list-style-type: none">• Understand the basics of web design for creating usable web sites.• Fundamentals of website development.• Website design principles.
3	Lecture 3: CSS Style	Part 3 of study guide Lecture notes	Lab 2	<ul style="list-style-type: none">• Assessing if the student can use introductory HTML tags, attributes, etc., and different CSS levels.

4	Lecture 4: More CSS Style	<ul style="list-style-type: none"> • Part 3 and 4 of study guide • Lecture notes 	Lab 3	<ul style="list-style-type: none"> • Assessing if the student can use introductory HTML tags, attributes, etc., and more advanced CSS styling.
5	Lecture 5: Javascript	<ul style="list-style-type: none"> • Part 5 and 6 of study guide (continue) • Lecture notes 	Lab 4	<ul style="list-style-type: none"> • Assessing if the student can make a JavaScript program to solve a problem.
6	Lecture 6: More Javascript	<ul style="list-style-type: none"> • Part 5 and 6 of study guide (continue) • Lecture notes 	Assignment 1	<ul style="list-style-type: none"> • Assessing if the student can make an interactive HTML page as a user interface for the problem they solved. • Use markup form tags (e.g., buttons, text, text area, radio, checkbox, select) to collect user input.
7	Review - Midterm	All covered content	Midterm;	
8	Lecture 6: More Javascript	<ul style="list-style-type: none"> • Part 7 of study guide (continue) • Lecture notes 	Lab 5	<ul style="list-style-type: none"> • Describe the Document Object Model (DOM) and properties and methods of form elements. • Use events and event handlers to create an interactive web page. • Use graphics files with web pages.
9	Lecture 7: JQuery	<ul style="list-style-type: none"> • Part 4 and 6 of study guide (continue) • Lecture notes 	Lab 6	<ul style="list-style-type: none"> • Use the proper markup to create sections for styling (for example, div and span in XHTML). • Assessing if the student can make proper use of one or two of programming components such as timer, built-in libraries, etc.
10	Lecture 8: Basic HTML 5 Graphics	<ul style="list-style-type: none"> • https://www.w3schools.com/php/ • Lecture notes 	Assignment 2	<ul style="list-style-type: none"> • Assessing the student's knowledge of taught concepts and their ability to put these concepts in action.
11	Lecture 8: Basic HTML 5 Graphics	<ul style="list-style-type: none"> • https://www.w3schools.com/php/ • Lecture notes 	Lab 7	<ul style="list-style-type: none"> • To learn more JavaScript libraries and graphics. • To learn and understand more server-side features and scripts.
12	Lecture 9: Server-side Programming (NodeJS)	<ul style="list-style-type: none"> • https://www.w3schools.com/php/ • Lecture notes 		<ul style="list-style-type: none"> • Write a server-side script to create a web page in response to a request, collect data from a web page visitor or send an email.
13	Lecture 9: Server-side Programming (NodeJS)	<ul style="list-style-type: none"> • https://www.w3schools.com/php/ • Lecture notes 	Lab 8	<ul style="list-style-type: none"> • Write a server-side script to create a web page in response to a request, collect data from a web page visitor or send an email.
14	FINAL EXAM			

*Timing subject to change

Evaluation Criteria

Evaluation Methods	%	Comments
Labs	20	
Assignments	20	
Midterm	20	
Final	40	
Total	<u>100%</u>	

You will need to get at least 50% in the final to pass.

Classroom Code of Conduct:

Students will be prepared for any appointments with the instructor or other students – this means logging in and getting out paper, pens, necessary texts (or etexts) and so on before the appointment starts.

1. Students will communicate respectfully when interacting with the instructor or classmates.
2. Students will respectfully communicate with the instructor and classmates in discussion groups, office hours, and in any type of electronic communication.
3. Students will respond to messages/emails from the instructor or other classmates in a timely manner.

Cheating and Plagiarism Policy:

Please see the college calendar for more information about grading and related policies.

Columbia College expects all students to uphold the principle of academic honesty. Cheating and plagiarism (presenting another person's words or ideas as one's own) are not acceptable behaviour at any educational institution. Depending on the severity of the offense such acts can result in a grade of zero on the test or assignment, a failing grade (F) in the course, or expulsion from the college. In all cases, the circumstances and the penalty are recorded in the student's file.

Academic misconduct not covered in the College's Cheating and Plagiarism Policy, is covered under Academic Policy 2.6 Academic Misconduct. It can be found at the following link: <https://www.columbiacollege.ca/about/college-policies/>. You are expected to familiarize yourself with this policy, as it covers serious issues including uploading copyright material, submission of falsified records and other strategies to gain unfair academic advantage. If you are unclear on the contents, please ask for clarification.

Course-Specific Policies: (If any, optional)

Grading System

Grade Percentage	Grade Points	Rating
A+ 90-100	4.3	Excellent
A 85-89	4.0	
A - 80-84	3.7	Very Good
B+ 76-79	3.3	
B 72-75	3.0	
B - 68-71	2.7	Good
C+ 64-67	2.3	
C 60-63	2.0	Satisfactory
C- 55-59	1.7	
D 50-54	1.0	Marginal Pass
F 0-49	0.0	Fail
N Below 50	0.0	Failure for non-completion or non-attendance

Please see the [college calendar](#) for more information about grading and related policies.