

Last Revised: June 14, 2020

COURSE INFORMATION

Course Title: Introduction to the Internet and the World Wide Web

Course Number: CSCI 165

Credits: 3

Total Weeks: 14 (Fall, Spring)
12 (Summer) **Total Hours:** 39

Course Level: First Year Second Year
 New Revised Course
 Replacement Course

Department: Computer Science **Department Head:** M. O'Connor

Former Course Code(s) and Number(s) (if applicable):
N/A

Pre-requisites (If there are no prerequisites, type NONE): NONE

Co-requisite Statement (List if applicable or type NONE): NONE

Precluded Courses: N/A

COURSE DESCRIPTION

In this course students will examine some of the concepts underlying the use of multimedia and the Internet in society. In the process, students will obtain basic skills in the use of computers for multimedia applications including graphics, text processing, HTML, and some programming skills to generate dynamic webpages.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Describe how computers are connected to the Internet.
- Explain how information is transmitted over the Internet.
- List some of the services and protocols available on the Internet.
- Explain the difference between the Internet and the World Wide Web.
- Describe the client-server model for static and dynamic requests.
- Explain the fundamentals of packet switching.
- Create static webpages using HTML5.
- Apply CSS design to webpages.
- Use graphics files with webpages.
- Compare and contrast the formats of computer graphic files.
- Understand the basics of web design for creating usable websites.
- Use appropriate HTML5 tags to define common elements of webpages, including HTML forms.
- Describe and implement commonly used CSS properties and rules.
- Explain the separation of webpage content and structure using HTML5 and CSS.
- Create simple dynamic webpages using forms to capture user input.
- Define simple algorithms using pseudocode.
- Create PHP programs that use these language features: i/o, variables, data types, control structures, functions and files.
- Construct programs from algorithms using standard programming methodologies.
- Develop dynamic websites using PHP for server-side processing.

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Type	Duration
Lecture	39
Seminars/Tutorials	
Laboratory	
Field Experience	
Other (<i>specify</i>):	
Total	39

Grading System: Letter Grades Percentage Pass/Fail Satisfactory/Unsatisfactory Other

Specify passing grade: 50%

Evaluation Activities and Weighting (total must equal 100%)

Assignments: 15% <i>Specify number of, variety, and nature of assignments:</i>	Lab Work: %	Participation: % <i>Specify nature of participation:</i>	Project: % <i>Specify nature of project:</i>
Quizzes/Test: 20%	Midterm Exam: 30%	Final Exam: 35%	Other: %

TEXT(S) AND RESOURCE MATERIALS

Provide a full reference for each text and/or resource material and include whether required/not required.

Web Development & Design Foundations with HTML5, 9th Edition. Author: Terry Felke-Morris, Publisher: Pearson. Published 2018.
ISBN-13: 978-0134801148

PHP for the Web, Visual QuickStart Guide, 5th Edition. Author: Larry Ullman, Publisher: Peachpit Press, Published 2016.
ISBN-13: 978-0134291253

COURSE TOPICS

List topics and sequence covered.

Week 1	Introduction to The Internet and The World Wide Web
Week 2	Web Development
Week 3	E-Commerce & Web Promotion
Week 4	HTML & Web Design
Week 5	CSS, Quiz 1

Week 6	CSS & Page Layout
Week 7	Midterm Exam Algorithms
Week 8	PHP Programming (Introduction)
Week 9	PHP Programming (Variables and Arrays)
Week 10	PHP Programming (Functions), Quiz 2
Week 11	PHP Programming (Control Structures)
Week 12	PHP Programming (Forms)
Week 13	PHP Programming (Files), Quiz 3
Week 14	Final Exam

NOTES

1. Students are required to follow all College policies. Policies are available on the website at: [Coquitlam College Policies](#)
2. To find out how this course transfers, visit the BC Transfer Guide at: bctransferguide.ca