



***Centre for Continuing Education***

**Internet Programming & Development (AEC LEA.BN)**

**420-PD3-AB  
CASCADING STYLE SHEETS  
COURSE OUTLINE**

**General Information**

<b>Course Title:</b>	Cascading Style Sheets (CSS)	
<b>Course Number:</b>	420-PD3-AB	
<b>Start Date:</b>	May 16th, 2018	<b>End date:</b> May 29th, 2018
<b>Day(s) and Time:</b>	MTWHF 8h30 to 13h30	
<b>Classroom:</b>	BH-214	
<b>Course Ponderation:</b>	1 hour lecture + 2 hours laboratory + 3 hours homework	
<b>Total Hours:</b>	45 hours	
<b>Number of Credits:</b>	2.00	
<b>Program Competency:</b>	Apply cascading style sheet standards for managing the design and formatting of web pages in a web browser. DC53.	
<b>Prerequisite course(s):</b>	420-PC3-AB HTML & XML	
<b>Semester:</b>	Winter 2018	
<b>Instructor:</b>	Stephanie Moreau	
<b>Contact Information:</b>	MIO or stephanie.moreau@johnabbott.qc.ca	

**Course Description**

This course presents to the students how to control the appearance of their web design by separating the visual presentation (CSS) from the content (HTML). Students will learn how things are supposed to work according to W3C specifications. The course will focus on understanding Selectors, Inline Layout, Floating and Positioning. The course also covers how to build effective navigation, how to lay out pages, and how to work with typography, colours, backgrounds, and white space. As browsers do not always behave as the specifications recommend, a real-world approach is used, concentrating on browser inconsistencies and hands-on projects that summarize the topics learned.

## Course Objectives and Course Content

Upon successful completion of this course, a student will be able to:

- Use different methods of selecting elements, allowing you to apply style rules in a variety of ways
- Use CSS properties to control typography, colors, and backgrounds
- Use the CSS box model to control margin, padding, and borders
- Use CSS properties with forms, tables and lists
- Use the CSS positioning properties to build page layouts without tables
- Use the power of flexibility of CSS to design attractive Web pages

OBJECTIVE	STANDARD
<b>Statement of the Competency</b> DC53. Apply cascading style sheet standards for managing the design and formatting of web pages in a web browser.	<b>Achievement Context</b> <ul style="list-style-type: none"> <li>• In a classroom and computer laboratory environments – using:               <ul style="list-style-type: none"> <li>○ Using a workstation and the appropriate software</li> <li>○ Based on situations representative of the workplace and requiring the development of applications involving a limited number of classes</li> <li>○ Using all the documentation available on the applications to be developed</li> </ul> </li> <li>• In written assignment(s) and/or in-class exam(s)</li> <li>• In simulation exercises</li> <li>• Working alone and in groups</li> <li>• Based on industry standards</li> </ul>
Elements of competency	Performance criteria
1. Study basic Cascading Style sheets (CSS) syntax	1.1 Understanding the concepts of CSS mechanism and inheritance 1.2 Working with internal and external style sheets 1.3 Setting HTML elements properties: color and background properties, text and font properties 1.4 Validating style sheet
2. Understand CSS selection techniques	2.1 Using basic CSS selectors that match element names to apply style rules 2.2 Using the CLASS and ID attributes 2.3 Using pseudo-classes and elements to apply style rules to abstract characteristics of a document
3. Use Font and Type properties	3.1 Understanding how to use font-related properties 3.2 Applying font-family, font-size, font-weight, font-style, font-variant 3.3 Using the CSS font and text spacing properties 3.4 Text line settings such as line height, indents, and alignment
4. Use the Box properties	4.1 The components of an element box 4.2 Understanding the CSS visual formatting model 4.3 Using the margin, padding, and border properties 4.4 Using the special box properties to create floating elements
5. Use Color and Backgrounds	5.1 Understanding the basic of computer and its variable nature in the Web environment 5.2 Expressing color values using a color name, hexadecimal value, or RGB value. Color Gradients 5.3 Using the background properties to set background color, images, and background image position
6. Use the positioning properties	6.1 Understanding basic positioning concepts 6.2 Applying absolute, relative, and fixed positioning 6.3 Building Fixed, Liquid, and Elastic page layouts
7. Apply CSS Transitions, Transforms, and Animation	7.1 Creating smooth transitions 7.2 Moving, rotating, and scaling elements 7.3 Combining transitions and transforms

## Tentative Schedule

<i>Class Number</i>	<i>Description</i>
<b>Class 1</b>	<b>Introduction to Cascading Style Sheets</b> CSS Basics   Understanding styles rules   Building a basic style sheet   Understanding the cascade
<b>Class 2</b>	<b>Using Styles to Format Text</b> Write CSS styles   Choose the correct style to format a Web page   Specify fonts with font properties   Control line spacing and white space   Change text and background color <b>Assignment 1 due</b>
<b>Class 3</b>	<b>Test 1</b> <b>Using CSS to Format Multiple Pages</b> Use classes to style several tags   Identify the differences between dependent and independent classes   Create a spread heading   Position text   Identify text attributes to avoid   Use CSS pseudo-elements   Identify CSS filters
<b>Class 4</b>	<b>Exploring Graphic Elements and Images</b> Investigate the box model   Explore the padding, margin, and border properties   Float an image or text   Use the clear property   Change the List style type and position   Format and float headings   Create definition lists   Work with background properties
<b>Class 5</b>	<b>Using CSS for Layout and Printing</b> Create boxes for layout   Size and position boxes   Determine how to control overflow for a box   List the positioning properties   Use the z-index property   Use the media attribute and its values   Create print styles   Use multiple style sheets <b>Assignment 2 due</b>
<b>Class 6</b>	<b>Test 2</b> <b>Using CSS to Style Links/Menus, Tables and Forms</b>
<b>Class 7</b>	<b>Transitions, Transforms, and Animation</b>
<b>Class 8</b>	<b>Transitions, Transforms, and Animation</b> <b>Project due</b>
<b>Class 9</b>	<b>Test 3</b> <b>Presentations</b>

## Textbook

Recommended:

Greig, Stephen, *CSS3 Pushing the limit*, John Wiley & Sons Ltd, 2013, ISBN 978-1-118-65263-3

## Course Costs

None

## Teaching Methods

The course is a combination of theory, classroom labs and homework. Students will

- Work alone
- Work in groups

This course requires your individual presence and your active, consistent and sustained participation in your individual work. Your individual responsibilities are to complete the work assigned and be ready to work at the start of each class. Léa, the course management system within Omnivox, will be used in this course.

## Evaluation Plan

		Element of Competency
Assignment 1	10%	1. Study basic Cascading Style sheets (CSS) syntax
Test 1	10%	2. Understand CSS selection techniques
Test 2	15%	4. Use the Box properties
Assignment 2	15%	3. Use Font and Type properties 5. Use Color and Backgrounds 6. Use the positioning properties
Assignment 3	20%	7. Apply CSS Transitions, Transforms, and Animation
Test 3	30%	Apply cascading style sheet standards for managing the design and formatting of web pages in a web browser

## Departmental Attendance Policy:

### Attendance

The Centre for Continuing Education expects all students to attend class regularly. It is an essential requisite for the academic success and the mastery of the competencies required. The level of mastery of these competencies can be greatly increased with regular attendance as it allows the student time to demonstrate the complete understanding and perform certain elements of the competencies. Attendance and participation in class, lab, and fieldwork is mandatory. Attendance will be taken at the beginning of every class.

Without a valid reason or prior approval, students cannot miss more than 20% of the total hours of a course, i.e. 9 hours for a 45 hour course, 12 hours for a 60 hour course etc. or risks failing the course.

Since marks recognize the extent to which the competencies are met, no marks can be given for attendance alone or deducted for absence. Although attendance cannot be used as a component of the final grade, excessive absences may have consequences affecting the final grades.

### Absences are subject to the following procedures:

Students who miss class without a valid reason or prior approval will receive a mark of zero on any in-class assignment or quiz given in the period without the opportunity for make-up work.

Exceptions apply in cases of authorized absences.

### Authorized Absences

Students must be excused if they provide written proof of a valid medical or other special reason for missing a class or an evaluation within a 24 hour period. Teachers must require proof. (IPESA Art.7.1) Teachers are not required to re-teach course material missed by these students. Students with authorized absences cannot lose marks for missing an evaluation. The marks for the evaluation may be assigned to another evaluation even if the guidelines in IPESA Article 5 are exceeded. Teacher must provide alternative major evaluations if students miss a major evaluation due to an excused absence.

According to article 7.1 IPESA, special arrangements may be made in cases where chronic illness prevents the student from attending on a regular basis. Proof may be required. Special arrangements should also be made for religious holidays; however, students must inform the teacher at the beginning of the course, in writing.

#### **Absences fewer than 5 days**

Students who miss less than 20% of the course for justified reasons must provide a written note to the teacher or the program coordinator.

#### **Five days or more**

Students who will be absent for 5 days or more for justified reasons should provide a medical note to the Registrar's Office. The Registrar's Office will then advise the teacher of the date of return or if it is undetermined. Arrangements for submission of missed work, test, exams etc. are made between the teacher and the student.

Extended Absences after the Course withdrawal deadline (according to the Registrar policy) <http://www.johnabbott.qc.ca/academics/registrar/authorized-absences/>

#### **Classroom Policies**

Students who miss a class will receive a mark of zero on any in-class assignments or quizzes given in the period without the opportunity for any make-up work. Exceptions to this policy apply only in the event of absence due to medical or special reasons or religious holidays.

All electronic communication and music devices (e.g., iPad, tablets, cell phones, etc.) must be turned off while in class, unless authorized otherwise by the teacher.

Class time is limited, and each student at John Abbott is entitled to the very best educational experience in every class. It is important that the atmosphere of each classroom or lab be as conducive to the learning process as possible. The following guidelines have been established so as to create and maintain such an atmosphere.

Inappropriate behaviour in the classroom includes the following:

- Speaking while another person (teacher or student) has the floor (that is, he/she is addressing the class as a whole).
- Using cellular phones or other electronic devices not related to the course.
- Threatening, harassing, or offensive behaviour towards any person in the class, other students, teachers or College staff.
- Use of derogatory language or referring directly or indirectly to someone else in the class in a rude manner or using offensive language.
- Misuse or abuse of the College's computers, telephone systems or other equipment.
- Speaking, reading or writing about subjects which are not part of the current class discussion.
- Arriving late, leaving early, and leaving the room for any non-emergency without having teacher approval and the courtesy to make this known.
- Eating or drinking in the computer laboratories is forbidden.

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## **College Policies**

### **Policy No. 7 – IPESA, Institutional Policy on the Evaluation of Student Achievement:**

<http://www.johnabbott.qc.ca/wp-content/uploads/2014/12/2011-IPESA-FINAL-website-JAN-2013-rev-Dec-102014.pdf>

- **Changes to Evaluation Plan in Course Outline (Article 4.3)**

Changes to the evaluation plan, during the semester, requires unanimous consent.

- **Mid-Semester Assessment MSA (Article 3.3)**

Students will receive an MSA in accordance with College procedures.

- **Religious Holidays (Article 3.2)**

Students who wish to observe religious holidays must inform their teacher in writing within the first two weeks of the semester of their intent.

### **Student Rights and Responsibilities**

- **(Article 3.2, item 19.)**

It is the responsibility of students to keep all assessed material returned to them in the event of a grade review. (The deadline for a Grade Review is 4 weeks after the start of the next regular semester.)

- **(Article 3.3, item 7.)**

Students have the right to receive the results of evaluation, for regular day division courses, within two weeks. For evaluations at the end of the semester/course, the results must be given to the student by the grade submission deadline. Where applicable: for intensive courses (i.e.: intersession, abridged courses), timely feedback must be adjusted accordingly.

- **Cheating and Plagiarism (Article 8.1 & 8.2)**

Cheating and plagiarism are serious infractions against academic integrity which is highly valued at the College; they are unacceptable at John Abbott College. Students are expected to conduct themselves accordingly and must be responsible for all of their actions.

### **Cheating**

Cheating means any dishonest or deceptive practice relative to examinations, tests, quizzes, lab assignments, research papers or other forms of evaluation tasks. Cheating includes, but is not restricted to, making use of or being in possession of, unauthorized material or devices and/or obtaining or providing unauthorized assistance in writing examinations, papers or any other evaluation task and submitting the same work in more than one course without the teacher's permission. It is incumbent upon the Department through the teacher to ensure students are forewarned about unauthorized material, devices or practices that are not permitted.

### **Plagiarism**

Plagiarism is a form of cheating. It includes the intentional copying or paraphrasing (expressing the ideas of someone else in one's own words), of another person's work or the use of another person's work or ideas without acknowledgement of its source. Plagiarism can be from any source including books, magazines, electronic or photographic media or another student's paper or work.