
Responsive Web Design I

Design Studies

Course Number: MTM6130	Co-Requisites: N/A	Pre-Requisites: N/A
Applicable Program(s): 6149X01FWO - Interactive Media Design	AAL: 1	Core/Elective: Core
6149X03FWO - Interactive Media Design	1	Core
Prepared by:	Katie Tremblay, Coordinator	
Approved by:	Sherryl Fraser, Chair	
Approval Date:	Wednesday, June 26, 2019	
Approved for Academic Year:	2019-2020	
Normative Hours:	56.00	

Course Description

The ubiquity of devices of all shapes and sizes means web content can no longer be guaranteed to be delivered on a specific platform. Students discover responsive web design, using HTML, CSS and modern web standards to build sites that work on any sized device. Students apply current best practices in web design and coding techniques, including accessibility and search engine optimization as they complete responsive website building projects.

Relationship to Vocational Learning Outcomes

This course contributes to your program by helping you achieve the following Vocational Learning Outcomes:

6149X01FWO - Interactive Media Design

6149X03FWO - Interactive Media Design

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|--------|---|
| VLO 2 | Use best practices and tools to design and develop dynamic, rich-media content (T, A,) |
| VLO 5 | Design a media project (interface, navigation, graphics, text treatment) using current best practice design and development principles, and applying conceptual and theoretical frameworks. (T, A,) |
| VLO 6 | Build effective and dynamic Web sites and/or mobile applications (T, A,) |
| VLO 7 | Identify and analyze ethical and professional issues arising in an online environment (T, A,) |
| VLO 11 | Identify and apply discipline-specific factors that contribute to the local and global community |

through social responsibility, economic commitment and environmental stewardship. (T, A,)

Relationship to Essential Employability Skills

This course contributes to your program by helping you achieve the following Essential Employability Skills:

EES 3	Execute mathematical operations accurately. (T, A)
EES 4	Apply a systematic approach to solve problems. (T, A)
EES 5	Use a variety of thinking skills to anticipate and solve problems. (T, A)
EES 6	Locate, select, organize and document information using appropriate technology and information systems. (T, A)
EES 7	Analyze, evaluate and apply relevant information from a variety of sources. (T, A)

Course Learning Requirements/Embedded Knowledge and Skills

When you have earned credit for this course, you will have demonstrated the ability to:

1.) Understand how HTML is used to create websites and web applications.

Explain the purpose of HTML and the various element types.

Explain the importance and role of web standards and associated governing bodies.

Explain web accessibility and why HTML semantics play a key role.

Explain the role of server client relationship.

Understand why page metadata is important.

Demonstrate proper HTML syntax.

2.) Understand and implement CSS to style websites and web applications.

Explain the purpose of CSS and scope of styling available.

Understand the structure of a well-formed CSS ruleset.

Ascertain when to use inline styling and external stylesheets.

How and where to look for CSS information and documentation.

Understand and be able to create CSS specificity and cascading.

Learn basic set of style properties, values, and keywords.

Explain and utilize media queries for conditional and responsive styling.

3.) Understand the elements of responsive design required to build websites that scale across multiple platforms and form-factors.

Explain how devices can have differences in capabilities, dimensions, and screen resolutions.

Design effective user experiences that adapt to device differences.

Demonstrate appropriate use of CSS media queries when designing responsive sites and applications.

Performance considerations of conditional styling.

4.) Create responsive websites and applications for multiple platforms using HTML and CSS.

Use open-source text and code editors to create HTML and CSS files.

Apply web standards and industry best practices.

Apply appropriate page structure and responsive layout techniques.

Implement responsive images.

Test and package sites for deployment.

5.) Utilize modern open-source tools to create, test and deploy web sites and applications.

Use a code editor and development tools to craft HTML and CSS code.

Create readable and maintainable code.

Leverage editor extensibility to enhance code quality and increase productivity.

Validate HTML and CSS for standards compliance.

Leverage browser features for site testing and debugging.

Demonstrate deployment of a website to a server environment.

Understand the distinction between development and production environments.

Learning Resources

Brightspace Shared Links

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

<http://www.digitaltutors.com/11/index.php>

<https://www.codeschool.com/?ref=pluralsight>

Brackets

Filezilla

Learning Activities

Lectures and Hands on Demonstrations

Individual and Group Work

In-Class Practice, Discussions and Critique

Assignments and Projects

Evaluation/Earning Credit

The following list provides evidence of this course's learning achievements and the outcomes they validate:

Participation (5%)

Validates Outcomes: CLR 1, EES 4, EES 6, EES 7

Participation (5%)

Validates Outcomes: CLR 2, EES 6, EES 7

Participation (5%)

Validates Outcomes: CLR 3, EES 6, EES 7

Participation (5%)

Validates Outcomes: CLR 3, EES 6, EES 7

Practical Skills Assessment (5%)

Validates Outcomes: CLR 1, CLR 5, EES 5, EES 6, EES 7

Practical Skills Assessment (5%)

Validates Outcomes: CLR 2, CLR 5, EES 5, EES 6, EES 7

Practical Skills Assessment (5%)

Validates Outcomes: CLR 1, CLR 3, CLR 4, CLR 5, EES 3, EES 5, EES 6, EES 7

Practical Skills Assessment (5%)

Validates Outcomes: CLR 1, CLR 2, CLR 3, CLR 5, EES 3, EES 5, EES 6, EES 7

Practical Skills Assessment (10%)

Validates Outcomes: CLR 3, CLR 4, CLR 5, EES 3, EES 4, EES 5, EES 6, EES 7

Assignment(s) (20%)

Validates Outcomes: CLR 3, CLR 4, CLR 5, EES 3, EES 4, EES 5, EES 6, EES 7

Assignment(s) (30%)

Validates Outcomes: CLR 3, CLR 4, CLR 5, EES 3, EES 4, EES 5, EES 6, EES 7

Students are expected to meet evaluation and completion deadlines as stated in course outline and course section information documents. In circumstances where evaluation and/or completion deadlines are missed or student performance has been affected by a temporary or permanent disability (including mental health), interim or retroactive accommodations may be considered. In such instances, please consult your course faculty member. For other situations where deferral of evaluations may be warranted, please refer to college policy AA21.

Prior Learning Assessment and Recognition

Students who wish to apply for prior learning assessment and recognition (PLAR) need to demonstrate competency at a post-secondary level in all of the course learning requirements outlined above. Evidence of learning achievement for PLAR candidates includes:

- Portfolio
- Project/Assignment

Grade Scheme

Final Grade	Mark Equivalent	Numeric Value	Final Grade	Mark Equivalent	Numeric Value
A+	90% - 100%	4.0	A	85% - 89%	3.8
A-	80% - 84%	3.6	B+	77% - 79%	3.3
B	73% - 76%	3.0	B-	70% - 72%	2.7
C+	67% - 69%	2.3	C	63% - 66%	2.0
C-	60% - 62%	1.7	D+	57% - 59%	1.4
D	53% - 56%	1.2	D-	50% - 52%	1.0
F	0% - 49%	0	FSP	0	0

Course Related Information

Work submitted late will receive a mark of zero.

Department Related Information

College Related Information

Email

Algonquin College provides all full-time students with an e-mail account. This is the address that will be used when the College, your professors, or your fellow students communicate important information about your program or course events. It is your responsibility to ensure that you know how to send and receive e-mail using your Algonquin account and to check it regularly.

Students with Disabilities

If you are a student with a disability, you are strongly encouraged to make an appointment at the Centre for Accessible Learning to identify your needs. Ideally, this should be done within the first month of your program, so that a Letter of Accommodation (LOA) can be provided to your professors. If you are a returning student, please ensure that professors are given a copy of your LOA each semester.

Retroactive Accommodations

Students are expected to meet evaluation and completion deadlines as stated in course outline and course section information documents. In circumstances where evaluation and/or completion deadlines are missed or student performance has been affected by a temporary or permanent disability (including mental health), interim or retroactive accommodations may be considered. In such instances, please consult your course faculty member. For other situations where deferral of evaluations may be warranted, please refer to college policy AA21.

Academic Integrity & Plagiarism

Adherence to acceptable standards of academic honesty is an important aspect of the learning process at Algonquin College. Academic work submitted by a student is evaluated on the assumption that the work presented by the student is his or her own, unless designated otherwise. For further details consult Algonquin College Policies AA18: Academic Dishonesty and Discipline and AA20: Plagiarism

Student Course Feedback

It is Algonquin College's policy to give students the opportunity to share their course experience by completing a student course feedback survey for each course they take. For further details consult Algonquin College Policy AA25: Student Course Feedback

Use of Mobile Devices in Class

With the proliferation of small, personal mobile devices used for communications and data storage, Algonquin College believes there is a need to address their use during classes and examinations. During classes, the use of such devices is disruptive and disrespectful to others. During examinations, the use of such devices may facilitate cheating. For further details consult Algonquin College Policy AA32: Use of Mobile Devices in Class

Transfer of Credit

It is the student's responsibility to retain course outlines for possible future use to support applications for transfer of credit to other educational institutions.

Note: *It is the student's responsibility to refer to the Algonquin College Policies website for the most current*

Legend

Terms

- ALO: Aboriginal Learning Outcome
- Apprenticeship LO: Apprenticeship Learning Outcome
- CLR: Course Learning Requirement
- DPLO: Degree Program Learning Outcome
- EES: Essential Employability Skill
- EOP: Element of Performance
- GELO: General Education Learning Outcome
- LO: Learning Outcome
- PC: Program Competency
- PLA: Prior Learning Assessment
- PLAR: Prior Learning Assessment and Recognition
- VLO: Vocational Learning Outcome

Assessment Levels

- T: Taught
- A: Assessed
- CP: Culminating Performance