
Responsive Web Design II

Design Studies

Course Number: MTM6201	Co-Requisites: N/A	Pre-Requisites: MTM6130
Applicable Program(s): 6149X01FWO - Interactive Media Design 6149X03FWO - Interactive Media Design	AAL: 2 2	Core/Elective: Core Core
Prepared by: Approved by: Approval Date: Approved for Academic Year: Normative Hours:	Katie Tremblay, Coordinator Sherryl Fraser, Chair Wednesday, June 26, 2019 2019-2020 56.00	

Course Description

This course expands on the basic knowledge of CSS3 to incorporate topics such as fluid design, media queries, SASS, CSS frame work, and web animation. Students explore the mobile-first paradigm, create sites that behave across a range of platforms, utilize existing CSS frameworks, and create fun, interactive and dynamic media 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 3 | Contribute to the assessment of the requirements of an interactive media project (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 8 | Apply research and conceptual skills to propose possible solutions for mobile/multimedia/Web development problems (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.) Create multi-page responsive websites and applications utilizing a modern front-end framework.

Understand what a front-end framework offers and when to use them.

Leverage framework's responsive capabilities to achieve conditional interface elements.

Demonstrate using proper CSS techniques when and how to overwrite framework styles.

Demonstrate CSS transitions and transforms to enhance user experience.

Build complex interactive forms for user input leveraging framework capabilities.

2.) Create multi-page responsive websites and applications utilizing a CSS pre-processor.

Understand the difference a CSS pre-processor offers vs out-of-the-box CSS.

Learn and demonstrate modularity using a CSS pre-processor.

Understand CSS performance considerations for websites and implement solutions appropriately.

Demonstrate CSS transitions and transforms to enhance user experience.

Explain the various methods to implement responsive images with a consideration for both art direction and bandwidth.

Utilize the command line to install and run CSS pre-processor tasks.

3.) Plan the development of responsive web sites and applications.

Explain at a high-level, the process for planning a website or application.

Gather and document requirements.

Use pseudo-code or plain language to document structure and solutions.

Demonstrate problem decomposition.

Understand the needs of the target audience and where to source information.

4.) Setup and administer web hosting services.

Register for hosting service.

Understand the role of servers, platforms, providers and various services available.

Explain web server configuration.

Demonstrate basic server administration tasks.

Deploy public-facing web sites and applications on the server.

Create development and test environments while limiting access to public.

Explain continuous delivery and the integration of development build tools into the deployment of sites and applications.

5.) Leverage modern development, build & automation tools and best practices.

Understand how developer tools integrate into the development, testing and deployment process.

Demonstrate the use of a code repository and version control utilities.

Become accustomed to command line and terminal usage.

Demonstrate understanding of and adherence to coding style guides.

Explain how developers can keep current on latest trends and best practices.

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

Web Videos and References

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 6

Participation (5%)

Validates Outcomes: CLR 2, EES 3, EES 6

Participation (5%)

Validates Outcomes: CLR 4, EES 6

Participation (5%)

Validates Outcomes: CLR 3, EES 6

Practical Skills Assessment (5%)

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

Practical Skills Assessment (5%)

Validates Outcomes: CLR 2, CLR 3, EES 3, EES 4, EES 5

Practical Skills Assessment (10%)

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

Practical Skills Assessment (10%)

Validates Outcomes: CLR 2, CLR 3, CLR 4, EES 3, EES 4, EES 7

Assignment(s) (20%)

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

Assignment(s) (30%)

Validates Outcomes: CLR 1, CLR 2, CLR 3, CLR 4, CLR 5, EES 3, EES 4, EES 5, 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 information at <http://www.algonquincollege.com/policies/>*

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