INTERACTIVE MEDIA DESIGN - WEB

Program: IMDW
Credential: Ontario College Diploma, Co-op
Delivery: Full-time
Work Integrated Learning: 1 Co-op Work Term
Length: 4 Semesters, plus 1 work term
Duration: 2 Years
Effective: Fall 2019
Location: Barrie

Description
Students are instructed in the use of current Web and Internet technologies to create innovative, interactive products for a variety of users, platforms, and devices. They are taught to plan, design, and develop engaging and intuitive user interfaces. Courses cover the use of current technologies including HTML, CSS, JavaScript, the Document Object Model (DOM), Application Programming Interfaces (APIs), and a variety of popular scripting frameworks. With a focus on user-centred design, students apply human-computer interaction principles, standards-based technologies, and web application best practices to create an accessible, usable, and captivating user experience.

Career Opportunities
Graduates may find employment as designers and/or developers of interactive interfaces for a wide variety of organizations. They may function as internal specialists, or as part of an external team as a contractor or vendor. Such roles require professionals who are well-connected, adaptable, creative, innovative, forward-thinking, and personable team players with strong communication skills. Job titles might include Web Designer/Developer, User Experience Designer, Interactive Designer, Front-End Developer, Full-Stack Developer, Web Content Manager, and User Interface Designer.

Program Learning Outcomes
The graduate has reliably demonstrated the ability to:

1. complete both individual and collaborative interactive media projects effectively;
2. use best practices and tools to design and develop dynamic, rich media content;
3. contribute to the assessment of the requirements of an interactive media project;
4. contribute to the development, budgeting, planning and professional presentation of an interactive media project;
5. design a media project (interface, navigation, graphics, text treatment) using current best practice design and development principles, and applying conceptual and theoretical frameworks;
6. build effective and dynamic Web sites and/or mobile applications;
7. identify and analyze ethical and professional issues arising in an online environment;
8. apply research and conceptual skills to propose possible solutions for mobile/multimedia/Web development problems;
9. use creative and critical thinking techniques in the effective design, development and implementation of an interactive media project;
10. contribute to the assessment of the financial, technical and artistic success of an interactive media project;
11. employ environmentally sustainable practices within the profession;
12. apply basic entrepreneurial strategies to identify and respond to new opportunities.

Practical Experience
Co-operative Education is a mandatory component of all Co-op programs at Georgian College; it has been designed as a process by which students integrate their academic education with work experience related to their programs of study. This integration affects much more than simply earning a salary, including the adjustment to the work environment and the development of professionalism. It also reinforces skills and theory learned during academic semesters, develops professional contacts, job knowledge and career path, improves human relations and communication skills, and promotes personal maturity and financial independence.

Students are requested to register, attend and participate in their scheduled co-operative education classes. These classes are scheduled for all first year students and are expected to be completed in order for students to proceed successfully to their first co-op work experiences. To ensure students are eligible to proceed onto any co-op work experience, students should refer to Promotional Status and Eligibility for Co-op as outlined in the College Calendar. Co-op policies and procedures can be located on our website: www.georgiancollege.ca/student-services/co-op-and-career-services/students-tab/ (http://www.georgiancollege.ca/student-services/co-op-and-career-services/students-tab)

Georgian College follows the Co-operative Education guidelines set out by the Canadian Association for Co-operative Education (CACE) and Education at Work Ontario (EWO) by supporting the learning outcomes designed for the program specific graduate profile and curriculum as set out by the Ministry of Advanced Education and Skills Development.

The Program Progression
Fall Intake
• Sem 1: Fall 2019
• Sem 2: Winter 2020
• Work Term 1: Summer 2020
• Sem 3: Fall 2020
• Sem 4: Winter 2021

Admission Requirements
OSSD or equivalent with
• Grade 12 English (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: www.georgiancollege.ca/admissions/policies-
procedures/ (http://www.georgiancollege.ca/admissions/policies-procedures)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit Transfer Centre website for details:
www.georgiancollege.ca/admissions/credit-transfer/ (http://www.georgiancollege.ca/admissions/credit-transfer)

Additional Information
To be successful in this program, you are required to have a personal notebook computer (either PC or Mac) prior to the start of the program that meets or exceeds the following specifications:

HARDWARE
• Intel i3 processor or AMD equivalent
• 4GB of memory or greater
• 250GB hard drive

OPERATING SYSTEM
• Microsoft Windows (current version) or
• Apple OS X (current version)

SOFTWARE
• Adobe Photoshop
• Adobe Illustrator
• Microsoft Office
• Microsoft Visual Studio

Please note that your existing notebook computer will likely satisfy the above hardware requirements. Contact the Program Co-ordinator if you need further information about these requirements.

Graduation Requirements
18 Program Courses
2 Communications Courses
1 Program Option Course
5 General Education Courses
1 Co-op Work Term

Graduation Eligibility
To graduate from this program, the passing weighted average for promotion through each semester, from year to year, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

Program Tracking

Semester 1
Program Courses
COMP 1002 HTML, CSS, and JS Fundamentals 42
COMP 1030 Programming Fundamentals 42
COMP 1051 Digital Design Principles 42
COMP 1102 User Experience 42
Communications Course
Select 1 course from the communications list during registration. 42
Hours 252

Semester 2
Program Courses
COMP 1006 Introduction to Web Programming using PHP 42
COMP 1054 Interface Design Using CSS 42
COMP 1072 Bitmap, Vector, Video and Emerging Media 42
COMP 1073 Client-Side JavaScript 42
COMP 2003 Relational Database 42
Communications Course
Select 1 course from the communications list during registration. 42
Hours 252

Semester 3
Program Courses
COMP 2081 Advanced Interface Design Using CSS 42
COMP 2084 Server-Side Scripting using ASP.NET 42
COMP 2107 Social Media, Search and Analytics 42
COMP 2112 Advanced Client-Side JavaScript 42
MGMT 2008 Project Management for Information Technology 42
General Education Course
Select 1 course from the general education list during registration. 42
Program Option Course
Select 1 course from the available list during registration. 42
Hours 252
Total Hours 1008

Co-op Work Term
COOP 1026 Interactive Web Design and Development Work Term (occurs after Semester 2) 560
Hours 560
Total Hours 560

Code Title
COMP 1035 Networking Essentials
COMP 1045 Internet of Things using Arduino
COMP 2018 Linux System Administration
COMP 2099 Business Intelligence Tools
COMP 2130 Web Application Security
Graduation Window

Students unable to adhere to the program duration of two years (as stated above) may take a maximum of four years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

Information contained in College documents respecting programs is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs. The college reserves the right to add or delete programs, options, courses, timetables or campus locations subject to sufficient enrolment, and the availability of courses.