MOBILE APPLICATION DEVELOPMENT

Program: MDEV
Credential: Ontario College Graduate Certificate
Delivery: Full-time + Part-time
Length: 2 Semesters
Duration: 1 Year
Effective: Fall 2023, Winter 2024, Summer 2024
Location: Barrie

Description

Students prepare for a career in mobile application development either as part of a team or an independent entrepreneur. By leveraging their prior software development experience, students are able to focus on the core techniques, concepts, and architectures of mobile applications. Using an applied project methodology, students learn how to resolve common mobile programming challenges while gaining tangible experience in developing mobile applications. Students also develop effective technical communication skills, as well as gain exposure to vendor standards, guidelines, and best practices.

Career Opportunities

Graduates of the Mobile Application Development program will be prepared to work independently, or as a member of a team creating, designing, and coding mobile applications using a multitude of programming languages on a variety of mobile platforms.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. evaluate business and design requirements to select, formulate and implement mobile solutions;
2. promote mobile technology solutions using business communication and marketing skills;
3. create effective user interfaces that leverage evolving mobile device capabilities;
4. design and develop websites that deploy to different devices and platforms;
5. design and develop cross-platform applications built with rich-media and HTML-based technologies;
6. design and develop device-specific, native applications;
7. research and apply various software development kits (SDKs), frameworks and toolkits;
8. integrate database and server-side technologies to provide complete mobile development solutions;
9. build, test, and deploy secure mobile solutions using appropriate technologies;
10. collaborate in a team-based mobile development project;
11. apply concepts of entrepreneurship to application development;
12. implement strategies to reduce the impact of mobile applications on the environment;
13. publish and market mobile applications to an online store.

Program Progression

The following reflects the planned progression for full-time offerings of the program.

Fall Intake

- **Sem 1:** Fall 2023
- **Sem 2:** Winter 2024

Winter Intake

- **Sem 1:** Winter 2024
- **Sem 2:** Summer 2024

Summer Intake

- **Sem 1:** Summer 2024
- **Sem 2:** Fall 2024

Admission Requirements

Post-secondary diploma or degree with a focus in computer studies, or equivalent work experience in software development.

Selection Process

Applicants may be asked to submit a current resume and a letter of interest to the Program Coordinator in order to assess their prior academic and experiential learning.

Additional Information

To be successful in this program you are required to provide your own Apple Mac notebook computer prior to the start of the program. Your computer should have at least 8GB of memory, 256GB of disk space, and capable of running OSX version 10.13 (High Sierra) or better.

Graduation Requirements

14 Program Courses

Graduation Eligibility

To graduate from this program, a student must attain a minimum of 60% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester. The passing weighted average for promotion through each semester and to graduate is 60%.

Program Tracking

The following reflects the planned course sequence for full-time offerings of the Winter intake of the program. Where more than one intake is offered contact the program co-ordinator for the program tracking.

Semester 1		Hours
Program Courses		
MDEV 1000	Application Design and Interfaces	42
MDEV 1001	Mobile Data Management	42
MDEV 1002	Entrepreneurship for Mobile Development	42
MDEV 1006	Introduction to iOS Development	42
MDEV 1008	Introduction to Android Development	42
MDEV 1012	Mobile App Portfolio 1	42
MDEV 1014	Cross-platform Development 1	42
	Hours	**294**
Semester 2		
Program Courses		

MDEV 1003	Mobile Game Design	42
MDEV 1004	Mobile APIs and Frameworks	42
MDEV 1005	Mobile Web Applications	42
MDEV 1007	Advanced iOS Development	42
MDEV 1009	Advanced Android Development	42
MDEV 1013	Mobile App Portfolio 2	42
MDEV 1015	Cross-platform Development 2	42
	Hours	**294**
	Total Hours	**588**

Graduation Window

Students unable to adhere to the program duration of one year (as stated above) may take a maximum of two 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.

Disclaimer: *The information in this document 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.*

Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.