



## **Mobile Application Development**

School of Information Technology

MAP1/MAP2 - Mobile Application Development

**This program has been permanently suspended.**

### **Program Description**

Mobile Application Development is a one-year Ontario College Graduate Certificate program designed for college or university graduates who want to leverage their existing post-secondary education in information technology. This program focuses on fundamental mobile computer programming topics, and you'll develop in-depth, in-demand and specialized mobile computer programming knowledge. Students learn the capabilities to assess the integration of mobile solutions in existing business functions and processes, build native applications for mobile devices, implement web and enterprise solutions on the mobile platform, and implement user interface (UI) and user experience (UX) design best practices. The final semester includes the opportunity to complete a co-operative work placement with an industry partner.

### **Document of Recognition**

Mobile Application Development Ontario College Graduate Certificate

### **Program Type/Credential**

Ontario College Graduate Certificate Program

### **Learning Outcomes**

1. Implement native mobile applications for different mobile platforms;
2. Develop solution architectures to support client mobile applications by applying the principles and best practices of enterprise architecture and data management;
3. Develop creative concepts for mobile applications that meet innovation, entrepreneurship and social enterprise objectives;
4. Develop secure mobile applications by implementing the security principles, standards, and best practices of mobile application development;
5. Develop usable, friendly, fast, and reliable mobile applications by applying the principles and best practices of User Interface design and experience (UI/UX);
6. Work independently and as a member of a multi-disciplinary team, to develop mobile application solutions for a business;
7. Use industry standard testing methodologies to ensure software quality and improve software performance;
8. Apply strategies for personal, career and professional development to enhance work performance and maintain currency with industry and technological changes;
9. Comply with relevant laws, industry standards, guidelines and best practices in the design and implementation of mobile applications;



10. Communicate complex information technology solutions verbally, in writing and digitally for a variety of audiences and purposes.

### **Career Opportunities**

Fanshawe's Mobile Application Development program graduates can expect to be hired as:

- Mobile Developer - analyze, design, implement, mobile applications on Android or iOS platforms
- Junior Computer Programmer - analyze, design, program, implement, configure, integrate, maintain and support various applications.
- Mobile Web Developer - manage a website using innovative strategies to ensure the website is fully optimized and running proficiently to allow for a seamless, user-friendly experience on a mobile device.
- UI/UX Developer - design, develop, maintain front end computer applications for a positive and cohesive user experience on a mobile device

### **Admission Requirements**

Ontario College Diploma, Ontario College Advanced Diploma, Degree in computer science/information technology or equivalent

### **Approximate Costs**

Fee details are available at [www.fanshawec.ca/fees](http://www.fanshawec.ca/fees)

### **Contact**

School of Information Technology - 519-452-4430

### **Campus Codes and Intakes**

- Program Code: MAP1 and MAP2
- Campus Code: LC (LC - London)
- Intakes: Summer, Fall, Winter
- MAP1 - 45 weeks, MAP2 - 30 weeks
- Academic Calendars available at [www.fanshawec.ca/academicdates](http://www.fanshawec.ca/academicdates)

### **Applicant Selection Criteria**

Where the number of eligible applicants exceeds the available spaces in the program, the Applicant Selection Criteria will be:

1. Preference for Permanent Residents of Ontario
2. Receipt of Application by February 1st (After this date, Fanshawe College will consider applicants on a first-come, first-served basis until the program is full)
3. Achievement in the Admission Requirements



## **English Language Requirements**

Applicants whose first language is not English will be required to demonstrate proficiency in English by one of the following methods:

- TOEFL iBT - Score 88
- IELTS Academic - Overall score of 6.5 with no score less than 6.0 in any of the four bands
- CAEL - Overall score of 70 with no score less than 60 in any of the four bands
- PTE Academic - Score 59
- Cambridge English - Overall score of 176 with no language skill less than 169
- ESL4/GAP5 - Minimum grade of 80% in Level 9, 75% in Level 10
- Duolingo - Overall score of 120, with no score lower than 105
- LANGUAGECERT - Overall score of 70 with no score less than 65 in any of the four skills

## **Program Pathways**

For information about Program Pathways visit [www.fanshawec.ca/programpathways](http://www.fanshawec.ca/programpathways).

## **Program Curriculum - MAP1**

### **Level 1**

Take all of the following Mandatory Courses:

ACAD-6002 Graduate Success Strategies - Credits 1  
MGMT-6135 Essential Skills for Mgmt Professionals - Credits 4  
DEVL-6024 Career Planning - Credits 1  
INFO-6120 Databases-Intro - Credits 4  
INFO-6121 Programming for Mobile Development - Credits 4  
INFO-6122 Programming JavaScript - Credits 4  
INFO-6123 Web Design - Credits 3

### **Level 2**

Take all of the following Mandatory Courses:

INFO-6124 Android Application Development 1 - Credits 4  
INFO-6125 iOS Application Development 1 - Credits 4  
INFO-6126 Mobile Application UI/UX Design - Credits 3  
INFO-6127 Enterprise Tech for Mobile Platforms - Credits 3  
INFO-6128 Mobile Web Development - Credits 3  
INFO-6129 Cross Platform Mobile Development - Credits 3  
COOP-1020 Co-operative Education Employment Prep - Credits 1

### **Level 3**

Take all of the following Mandatory Courses:



### Group 1

INFO-6130 Android Application Development 2 - Credits 4  
INFO-6131 iOS Application Development 2 - Credits 4  
INFO-6132 Adv Topics in Mobile Development - Credits 4  
INFO-6133 Mobile Security Concepts - Credits 3

### Group 2

Take INFO-6134 or INNV-6001  
INFO-6134 Capstone Project - Credits 5  
INNV-6001 Innovation Applications - Credits 4

### **Program Residency**

Students Must Complete a Minimum of 16 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program

### **Program Curriculum - MAP2**

#### **Level 1**

Take all of the following Mandatory Courses:

- INFO-6124 Android Application Development 1 - Credits 4
- INFO-6125 iOS Application Development 1 - Credits 4
- INFO-6126 Mobile Application UI/UX Design - Credits 3
- INFO-6127 Enterprise Tech for Mobile Platforms - Credits 3
- INFO-6128 Mobile Web Development - Credits 3
- INFO-6129 Cross Platform Mobile Development - Credits 3
- ACAD-6002 Graduate Success Strategies - Credits 1
- DEVL-6024 Career Planning - Credits 1
- COOP-1020 Co-operative Education Employment Prep - Credits 1

#### **Level 3**

Take all of the following Mandatory Courses:

### Group 1

INFO-6130 Android Application Development 2 - Credits 4  
MGMT-6135 Essential Skills for Mgmt Professionals - Credits 4  
INFO-6131 iOS Application Development 2 - Credits 4  
INFO-6132 Adv Topics in Mobile Development - Credits 4  
INFO-6133 Mobile Security Concepts - Credits 3

### Group 2



Take INFO-6134 or INNV-6001

INFO-6134 Capstone Project - Credits 5

INNV-6001 Innovation Applications - Credits 4

**Program Residency**

Students Must Complete a Minimum of 12 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program