Software and Information Systems Testing
School of Information Technology
SST3 - Software and Information Systems Testing

This program has been permanently suspended.

Program Description
This one-year Ontario College Graduate Certificate program prepares students for the in-demand field of quality assurance and quality control in information technology with specialized skills for careers including Business Systems Testing Analyst, Systems Design Verification Technologist and Application Integration Specialist.

- Gain a broad, in-demand skill set that can be paired with any of the other IT programs offered by Fanshawe
- Learn how to write external test scripts and the different methods used to figure out the end-user, from bug testing to reporting
- Gain practical experience in project management, leadership and security testing both in class and through a co-op work term with a local industry partner
- Discover hardware and software testing methods to ensure the end product meets customer expectations

Academic Progression and Completion Requirements
Graduation from college programs requires a student to complete the program curriculum, meeting its academic standards, achieving a minimum cumulative G.P.A. of 2.0. From initial registration, there is a maximum of seven years (full-time or part-time) to complete the program curriculum.

Document of Recognition
Software and Information Systems Testing Ontario College Graduate Certificate

Program Type
A One-Year Ontario College Graduate Certificate Program

Learning Outcomes
The graduate has reliably demonstrated the ability to:
- Design and prioritize test protocols by using established techniques and application of core software testing principles to analyze both functional and non-functional specification requirements at all test levels for systems with a low to medium level of complexity.
- Develop test cases to verify system functionality and individual components of the system architecture taking into consideration the various test levels such as component,

integration, system, acceptance, and among the various test types such as functional, usability, and regression.

- Test, verify, and evaluate procedures to assess software quality and improve software performance taking into consideration of all the conditions, circumstances, and influences surrounding and affecting the testing of software.
- Interpret, create, and present work-related documents, incident reports, test plans and related information effectively and accurately in order to document possible defects observed during testing.
- Collect, analyze and supplement data with metrics, graphs and charts and other pictorial representations which help the developers and users interpret that data.
- Manage software quality assurance and software testing projects according to current project management principles and practices.
- Devise testing protocols for specialized technologies such as web application testing, mobile application testing, cloud base applications, testing within an Agile framework and DevOps application testing.

Career Opportunities

Graduates of Fanshawe's Software and Information Systems Testing program will have the skills to work in numerous sectors within the information technology industry, including software design, game design, help desk, business analysis, management consulting and customer help. They will also be able to assume quality assurance testing roles, and ultimately management positions, in the technology industry.

Admission Requirements

A Two- or Three-Year College Diploma, or a Degree in Business or Information Technology
OR
Acceptable combination of related work experience and post-secondary education as judged by the College to be equivalent to the above

Approximate Costs

Fee details are available at www.fanshawec.ca/fees

Contact

School of Information Technology: 519-452-4430

Campus Codes and Intakes

- Program Code: SST3
- Campus Code: LC (LC - London)
- September Admission
- 15 week terms
- Academic Calendars available at 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

Recommended Academic Preparation

Previous Business or Information Technology post-secondary education and/or training and/or work experience.

English Language Requirements

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

- A Grade 12 College Stream or University Stream English credit from an Ontario Secondary School, or equivalent, depending on the program's Admission Requirements
- TOEFL iBT - Overall score of 5 with no score less than 4.5 in any band
- 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 - Minimum score of 58 with no score less than 50 in any of the four bands
- Cambridge English - Overall score of 176 with no language skill less than 169
- ESL4/GAP5 - Minimum grade of 80% in ESL4/GAP5 Level 9, or 75% in ESL4/GAP5 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

Program Curriculum

Level 1

Take all of the following Mandatory Courses:

COMM-6019 Advanced Professional Communication - 3 credits

INFO-6066 Coding for Test - 5 credits

INFO-6050 End User Experience Testing - 3 credits

INFO-6104 Test Methodologies - 4 credits

INFO-6011 Applied Project Management - 3 credits
INFO-6056 Systems Design & Analysis - 3 credits
COOP-1020 Co-operative Education Employment Prep - 1 credit
ACAD-6002 Graduate Success Strategies - 1 credit

Level 2
Take all of the following Mandatory Courses:
INFO-6105 Automated Test Tools - 4 credits
INFO-6068 Capstone Project - 5 credits
INFO-6055 Non-Functional Testing - 4 credits
SRTY-6001 IS Security Testing - 4 credits
INFO-6067 Testing for Development - 4 credits