



Business and Information Systems Architecture

London South Campus

BIA1B -Business and Information Systems Architecture

This program has been permanently suspended.

Program Description

This two-year program equips international graduates with in-demand IT skills, covering infrastructure support, networking, and security in the first year. The second year focuses on advanced systems and solutions architecture. Graduates are prepared for roles in IT support, systems administration, and network security.

Document of Recognition

Business and Information Systems Architecture Graduate Certificate

Program Type/Credential

A Two-Year Ontario College Graduate Certificate

Learning Outcomes

1. Install, configure, program and maintain IT applications (including operating systems, database management systems) to facilitate successful ecommerce transactions
2. Customize and deploy software securely to facilitate ICT operations in a small business
3. Debug, document and repair bugs in applications to ensure effective functioning of ICT operations
4. Identify, analyze and document the client's business and system requirements to develop relevant ICT solutions
5. Interpret, create, and present work-related documents and information effectively and accurately to ensure clear communication between end user and ICT provider
6. Write programs that communicate with other computers over a network
7. Develop and implement dynamic web applications using appropriate programming language, databases and data sources
8. Apply principles of project management to plan, track, and present the progress of an ICT project
9. Identify legal, ethical and intellectual property issues in Information Technology projects and propose strategies to address these issues
10. Implement personal and professional development strategies to improve job performance and promote professional growth
11. Install, troubleshoot, and maintain network components in a small business setting to ensure effective operations
12. Create ICT strategies for the successful planning and operation of a small to medium-sized enterprise



Career Opportunities

Graduates of Fanshawe's Business and Information Systems Architecture program have the knowledge and skills to become vital members of insurance companies, manufacturing companies, IT (and non-IT) consulting firms, telecom companies and small-medium-large organizations. Graduates of this program may go on to become business analysts, business system analysts, support analysts, data scientists, web/mobile developers, scrum masters (PM), mobile app developers, network administrators, cloud architects, system engineers, software engineers, IT managers and more.

Did you know Fanshawe consistently ranks high in graduation employment rates among large colleges in Ontario?

Here are some examples of career opportunities for graduates of Fanshawe's Business and Information Systems Architecture program:

Business Analyst

Be responsible for conducting market analyses, analyzing product lines and analyzing the profitability of businesses.

Network Administrator

Be responsible for maintaining computer networks and resolving any problems that may occur with them.

System Engineer

Manage and monitor installed systems and infrastructure for organizations to be in line with the organization's guidelines.

Software Engineer

Analyze and modify existing software while designing, constructing and testing applications that meet user needs.

Admission Requirements

A Two- or Three-Year College Diploma, or a Degree

OR

Acceptable combination of related work experience and post-secondary education as judged by the College to be equivalent to the above*



Note:

*Applicants may be required to submit a resume and cover letter that includes details of work experience.

Approximate Costs

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

Contact

London South Campus: 519-452-4430 ext.6221

Campus Codes and Intakes

- Program Code: BIA1B
- Campus Code: London South (LS)
- January, May, September admissions
- 60 weeks term
- 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

English Language Requirements

Test	Score
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 Academic	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:

INFO-6084	Practical Applications of ITIL- Credits 2
MGMT-6135	Essential Skills for Mgmt Professionals- Credits 4
INFO-6085	End User Operations- Credits 3
ACAD-6002	Graduate Success Strategies- Credits 1
DEVL-6033	Career Planning- Credits 1
INFO-6087	Networking & Security1- Credits 4
INFO-6086	Operating Systems1- Credits 4
INFO-6088	Databases1- Credits 3

Level 2

Take all of the following Mandatory courses:

INFO-6089	Databases 2 & Programming- Credits 4
INFO-6090	Networking & Security 2- Credits 4
INFO-6091	Operating Systems 2- Credits 3
INFO-6092	Data Management- Credits 3
INFO-6093	Cloud Services- Credits 3
MGMT-6148	Applied Project Management- Credits 4

Level 3

Take all of the following Mandatory courses:

INFO-6094	Programming 2- Credits 3
INFO-6095	IT Architecture- Credits 4
INFO-6096	Storage Systems- Credits 4
INFO-6097	Business Solutions Architecture- Credits 4
INFO-6098	Web & Mobile Systems Programming- Credits 3
INFO-6099	Software Design & Programming- Credits 3

Level 4

Take all of the following Mandatory courses:

INFO-6100	Software Development & Maintenance- Credits 3
INFO-6101	Integrated Systems & Micro Controllers- Credits 4
BUSI-6010	Business Intelligence & Big Data- Credits 4
INFO-6102	Enterprise Resource Planning- Credits 3
INFO-6103	Enterprise Application Modelling- Credits 3
MGMT-6134	Capstone Project- Credits 6