

Hello, possibilities.

SCIENCE & TECHNOLOGY MINI VIEWBOOK 2021

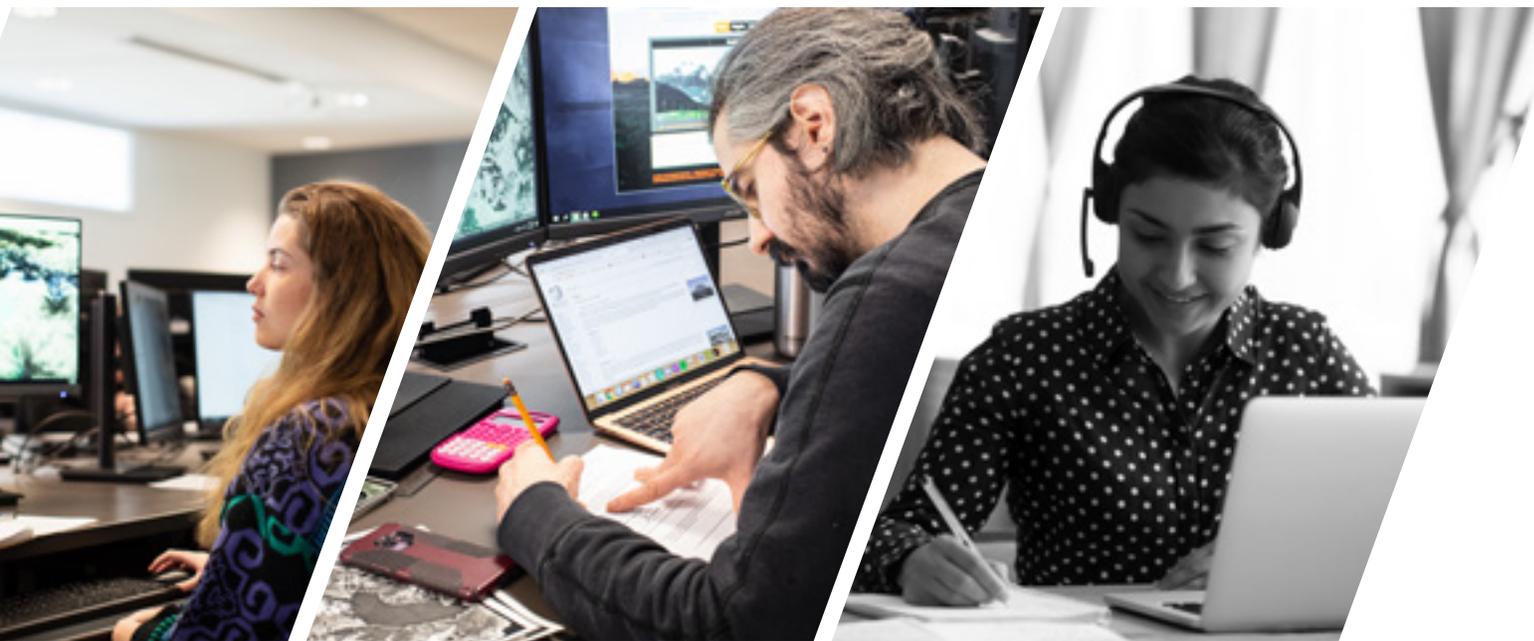


snəwəyət leləm.

THE COLLEGE OF HIGHER LEARNING.

Langara.

THE COLLEGE OF HIGHER LEARNING.



Choose your own path.

PROGRAMS AND COURSES

Find your inspiration from the Science & Technology **courses and programs** available, each thoughtfully designed to give you a solid blend of knowledge and skills.

Our innovative curriculum will prepare you to pursue further education, or to build a career of your choosing.

UNLIKE ANY OTHER

More students transfer to BC universities from Langara than from any other college in the province.



92%*
felt prepared for
further studies

A survey conducted in 2019 of over 3500 former students who went on to higher education showed that they had developed useful skills in analysis, critical thinking, comprehension, and resolving issues. Our students give us good grades!

*Statistics from the BC Student Outcomes Survey: <http://www2.bcstats.gov.bc.ca/Dashboard/>

The smart pathway to university.

UNIVERSITY STUDIES

Whether you know where you want to go or are just figuring out your options, we will be with you every step of the way. You will benefit from customized learning supports, more affordable tuition, and learning from instructors who know your name.

Earn your citation, certificate, associate degree, or diploma, then apply your academic credits to a bachelor's degree offered at Langara, or transfer them to a second- or third-year standing at a university, such as the University of British Columbia or Simon Fraser University.

OPEN ENROLMENT

Interested in the sciences? Biology or physics?
Bioinformatics or health sciences?

We provide the most comprehensive **University Studies Open Enrolment** programs of any college in BC. These programs allow you the flexibility to sample and explore subject areas of interest such as astronomy, geology, and statistics.

These programs are open to both domestic and international students who meet the general **admission requirements** and the **English language proficiency requirements**.

Apply early. Registration priority is determined for incoming students by the date of their application, and for continuing students based on cumulative grade point average (GPA).

Check individual course transferability at bctransferguide.ca

LIMITED ENROLMENT

Looking for applied skills but still want to transfer to university?

Choose from our selection of **University Studies Limited Enrolment** science and technology programs which combine academics with industry relevant skills.

Applicants must meet the general **admission requirements**, the **English language proficiency requirements**, and/or additional requirements. These programs have a limited number of seats and admission may be competitive.

Registration for these courses is based on the assigned registration priority for that program. Some courses have available seats for students who are not admitted to the program. Most of these courses are university-transferable.

Check individual course transferability at bctransferguide.ca



LEARN MORE ABOUT
UNIVERSITY STUDIES PROGRAMS

Get a head start.

CAREER STUDIES

Be ready for the changing workplace. Many Langara programs provide learning opportunities from instructors who teach while working in their industry. Learn first-hand and gain experience that you will be able to use in the workplace when you graduate.

PREPARE FOR YOUR CAREER.

Langara's **Career Studies Limited Enrolment** programs include four-year bachelor's degrees as well as shorter programs which lead to diplomas, certificates, and citations. They are designed with the input of industry-based advisors to create learning outcomes that meet employer expectations. Each program is delivered by dedicated instructors who combine a strong academic core with state-of-the-art marketplace skills.

Prepare to launch into your career immediately after graduation.

Applicants must meet the general **admission requirements**, the **English language proficiency requirements**, and/or additional requirements.

These programs have a limited number of seats and admission may be competitive. You may be required to submit supplementary applications, letters of reference, portfolios, and/or evidence of completion of other prerequisites. Refer to program admission descriptions for details.



LEARN MORE ABOUT CAREER STUDIES PROGRAMS

YOU'LL BE IN DEMAND

Students who completed a bachelor's degree at Langara reported:



93%

Satisfied with their bachelor's education



95%

Working full-time



92%

Found work in a field related to their education

See what you can earn.

CREDENTIALS

BACHELOR'S DEGREE

A bachelor's degree paves the way for direct employment or for graduate studies in BC or abroad. To earn a Bachelor of Science in Bioinformatics degree, complete a minimum of 129 credits of university-level courses through full- or part-time studies.

ASSOCIATE DEGREE

Lay a solid foundation for further study by earning an associate degree. Complete at least 60 credits in science and technology courses that are guaranteed to transfer to universities in BC such as UBC or SFU.

DIPLOMA

Langara offers diploma options in both limited enrolment and open enrolment programs which focus on work-ready learning. You can earn one by completing at least 60 credits in a specific program of study.

CERTIFICATE

Langara offers certificate programs in Engineering (40-43 credits) to transfer to second-year Engineering at UBC, or Internet and Web Technology (30 credits in Computer Studies courses) which provide knowledge and skills to begin a career.

CITATION

Earn one of two citations by completing 15 credits in Full Stack Web Development or 17 credits of Biology courses in Ecology.

Experience leads to a bright future.

WORK WHILE YOU LEARN

TAKE A CO-OPERATIVE EDUCATION TERM.

Bioinformatics and computer science students can apply their newly realized skills by choosing to take a co-operative education term. Co-operative education allows you to alternate study semesters with paid work terms. Co-op terms are available for domestic and international students in accounting, bioinformatics, business management, computer science, and marketing management programs. Our co-op employers are providing remote, work from home or in office roles for students - conducting research projects or participating with virtual company teams. Apply in your first year to get a head start on your career.

Visit the [Co-op & Career Development Centre](#) website for more info.

EARN MONEY WHILE TAKING COURSES.

There are paid employment opportunities for students who demonstrate financial need with our [Student Work Assistance Program](#) (SWAP). It provides work for students in various capacities throughout the year. The [Work on Campus Program](#) (WOC) allows students to be employed as peer tutors or perform basic research at Langara.



Science & Technology

PROGRAM INFORMATION

All applicants must meet the Langara College general [admission requirements](#) and [English language proficiency requirements](#) in addition to specific program criteria.

	PROGRAMS	START DATES & DURATION
<p>OE</p> <p>UT</p>	<p>SCIENCE (GENERAL) Associate of Science Degree Design your own science program and build your lab, field, and analytic skills while laying the foundation for further study. BC universities will guarantee 60 transfer credits to students with an Associate of Science Degree, even if some of the courses taken towards the degree do not individually transfer to that institution.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time
<p>OE</p> <p>UT</p>	<p>ARTS AND SCIENCE (GENERAL) Diploma Get a well-rounded knowledge base in this flexible program. Choose from more than 200 university-transferable courses.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time
<p>OE</p>	<p>GENERAL EDUCATION Diploma Ideal for students who wish to study a diverse selection of subjects and do not necessarily plan to complete a university degree.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time
<p>LE</p> <p>UT</p>	<p>APPLIED SCIENCE FOR ENGINEERING Diploma Gain the academic and applied knowledge to prepare you to apply to transfer into a university undergraduate engineering program.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time
	<p>BIOINFORMATICS</p>	
<p>LE</p> <p>UT</p> <p>PCW</p> <p>BSN</p>	<p>Bachelor of Science Degree Bioinformatics is the application of computer science to the study of biology, particularly to genetics, genomics, and molecular biology. Bioinformatics education is in demand for many careers in science and healthcare.</p>	<ul style="list-style-type: none"> • September, January, May • 4 years • Full-time, part-time
<p>OE</p> <p>UT</p> <p>PCW</p>	<p>Associate of Science Degree, Diploma Gain strong knowledge of computer science and biology while learning the skills necessary to succeed in upper level courses. Pathway into the third year of the Bioinformatics Bachelor of Science degree is possible.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time
<p>OE</p> <p>UT</p> <p>PCW</p>	<p>BIOLOGY Associate of Science Degree, Diploma The study of living things: anatomy, botany, ecology, genetics, microbiology, zoology, and more. Flexibility in course selection allows students to choose a concentration and/or transfer to any BC university.</p>	<ul style="list-style-type: none"> • September, January, May • 2 years • Full-time, part-time

OE Open enrolment
 PCW Practicum, co-op, or work experience
 BSN Bachelor of Science degree
LE Limited enrolment
UT University-transferable courses
FLEX Online, part-time, or distance learning option

<p>OE</p> <p>UT</p> <p>PCW</p>	<p>CHEMISTRY Associate of Science Degree, Diploma The study of matter: organic, inorganic, analytical, and physical chemistry. Courses are transferable to BC universities.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>OE</p> <p>UT</p> <p>PCW</p>	<p>COMPUTER SCIENCE Associate of Science Degree Build a solid foundation in computer science with academic and hands-on experience. Graduates can apply to transfer directly into third-year computer science at SFU, UBC, and UVic.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>LE</p> <p>UT</p> <p>PCW</p>	<p>COMPUTER STUDIES Diploma Learn a combination of computer science and information systems in this flexible program. Specializations include computer engineering, network security administration, software engineering, project management, and web development. Many classes are university-transferable.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>LE</p>	<p>DATA ANALYTICS Post-Degree Diploma Learn how to use data to make better decisions, including data acquisition, analysis and presentation of results. Learn industry-standard software and put it into practice in collaboration with industry partners in telecommunications, finance, and health care.</p>	<ul style="list-style-type: none"> September, January 2 years Full-time, part-time
<p>OE</p> <p>UT</p>	<p>ECOLOGY Citation Students who are completing the Associate of Science Degree in Biology or the Diploma in Biology can complete the Citation in Ecology as part of their first two or three semesters.</p>	<ul style="list-style-type: none"> September, January, May 3 semesters Full-time, part-time
<p>LE</p> <p>UT</p>	<p>ENGINEERING TRANSFER Certificate This program is equivalent to the first-year of UBC's applied science program, and is an excellent foundation for further study in the physical sciences. Those who complete the program may apply directly to second-year engineering at UBC.</p>	<ul style="list-style-type: none"> September 1 year Full-time, part-time
<p>LE</p> <p>UT</p>	<p>FULL STACK WEB DEVELOPMENT Citation Students will gain in-demand experience and skills in modern web programming, methodologies, tools, frameworks, and middleware, including knowledge of both front-end and back-end development.</p>	<ul style="list-style-type: none"> May 1 year Full-time, part-time
<p>LE</p> <p>UT</p>	<p>INTERNET & WEB TECHNOLOGY Certificate Get the skills to meet the challenges of web technology. Learn about computer science, web development and programming, animation, operating systems, and databases.</p>	<ul style="list-style-type: none"> September, January, May 1 year Full-time, part-time
<p>LE</p> <p>PCW</p> <p>FLEX</p>	<p>LIBRARY & INFORMATION TECHNOLOGY Diploma Prepares students for duties in information centres and public, academic, and specialized (medical, legal, corporate, or government) libraries.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>OE</p> <p>UT</p>	<p>MATHEMATICS Associate of Arts Degree, Associate of Science Degree Study calculus, linear algebra, analysis, differential equations, statistics, and computer science. Graduates can apply to transfer directly into third-year at BC Universities.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>OE</p> <p>UT</p>	<p>PHYSICS Associate of Science Degree Study electricity, magnetism, thermodynamics, and classical mechanics. Graduates can apply to transfer directly into third-year at BC Universities.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>LE</p>	<p>WEB & MOBILE APP DESIGN & DEVELOPMENT Post-Degree Diploma This program focuses on web and mobile app design and development, from concept to deployment. It encompasses visual aesthetics (typography, colour theory, and graphics), client and server programming, user-experience design, and project management. Students have a common set of courses throughout the program and specialize in one of two areas: Designer or Developer. An optional work experience term is available.</p>	<ul style="list-style-type: none"> September, January, May 2 years Full-time, part-time
<p>Check the website for specific program admission requirements</p>		



So many subject areas to choose from.

SUBJECT AREAS

Our programs allow you to explore a wide variety of subject areas and provide you with a broad foundation of higher learning. Choose electives from over 50 subject areas to satisfy the requirements of your program.

ARTS

- Art History
- Chinese
- Communications
- English
- Film Arts
- Fine Arts
- French
- Greek
- Japanese
- Latin
- Photography
- Spanish

BUSINESS

- Business Computer Applications
- Business Management
- Financial Management
- Food Services
- International Business
- Marketing

SCIENCE & TECHNOLOGY

- Astronomy
- Bioinformatics
- Biology
- Chemistry
- Computer Science
- Computing Science & Information Systems
- Geology
- Mathematics
- Physics
- Science
- Statistics

HUMANITIES & SOCIAL SCIENCES

- Aboriginal Studies
- Anthropology
- Applied Social Sciences and Humanities
- Asian Studies
- Canadian Studies
- Classical Studies
- Criminology
- Economics
- Environmental Studies
- Family Studies
- Geography
- History
- Latin American Studies
- Peace & Conflict Studies
- Philosophy
- Political Science
- Psychology
- Religious Studies
- Sociology
- Women's Studies

HEALTH

- Health Sciences
- Kinesiology
- Nutrition
- Physical Education
- Recreation

You are welcome here.

STUDENT SERVICES

Starting college is a big step, and it's okay to ask for help. Langara offers a range of **student services** to help you get the most out of your college experience.

GET GOOD ADVICE.

Admissions advisors can help walk you through the admissions process. Email advisor@langara.ca.

REACH YOUR GOALS.

Counselling services are available to current students and focus on personal, educational, and career needs.

GET SUPPORT.

Accessibility Services provide accommodations, support, and guidance on a case-by-case basis. Email accessibilityservices@langara.ca or call 604.323.5509.

STRETCH YOUR FINANCES.

Eligible students can apply for bursaries, scholarships, and awards. Email finaid@langara.ca.

STUDY SMARTER.

The **Learning Commons** houses the Writing and Tutoring Centre. All services are free and available to Langara students in the Library.

ACCESS CAREER RESOURCES.

Access in-class employment courses, career workshops, resume review services, interview coaching, and other career-building resources at the **Co-op & Career Development Centre**.

INDIGENOUS EDUCATION AND SERVICES

Indigenous students have access to academic advising, educational and personal counselling or cultural support, and application support for funding to assist and promote academic success. Call 604.323.5043 or email indigenous@langara.ca.



INTERNATIONAL EDUCATION

International students can join a virtual information session, or an online education fair, to learn more about available options. Or join us for a drop-in advising session.



Money matters.

YOUR INVESTMENT IN HIGHER EDUCATION

Tuition cost is an important factor in making your post-secondary choice. Langara's tuition rates are among the most affordable in the province. A typical domestic first-year student taking a full course load (15 credits per semester), will pay approximately \$1,522 tuition per semester.

APPROXIMATE COSTS OF TUITION + FEES PER ACADEMIC YEAR FOR DOMESTIC STUDENTS (30 credit hours, 10 courses, taken over two semesters)	
Tuition*	\$3,044
Books*	\$1,800
Student Fees*	\$900
Total	\$5,744

For international student fees, please visit the [International Students website](#).



[LEARN MORE ABOUT TUITION](#)

SCHOLARSHIPS AND BURSARIES

Langara has a variety of bursaries and scholarships available to our students. Once you become a Langara student, you can apply for most awards by filling out our general applications; and you can apply each term that you are eligible. Check out our Bursary and Scholarship applications, and review eligibility criteria on the [Financial Aid](#) website.

MOVING AHEAD. KEEPING YOU SAFE.

The health and well-being of our community is always our first priority.

Langara College recognizes that these are unusual times and we are working hard to ensure that we continue to offer our new and current students, faculty, and staff a safe and secure learning environment.

To learn more about what we are doing to ensure the health and safety of our community, visit langara.ca/COVID.

What do I need to get in?



EXPLORE PROGRAMS

Choose the program that interests you.



CHECK ADMISSION REQUIREMENTS

Admission requirements are outlined in a separate tab on each program's page.



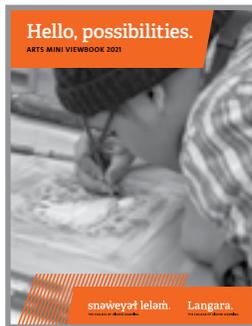
APPLY TO LANGARA

You will make your application to Langara on the Education Planner BC (EPBC)'s website.

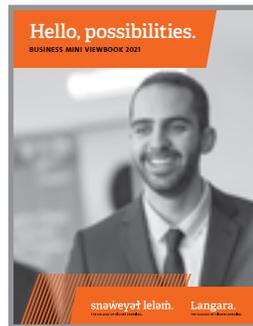


MINI VIEWBOOKS

Want to see more of what Langara has to offer?
We have Mini Viewbooks in these areas as well:



ARTS



BUSINESS



HEALTH



HUMANITIES &
SOCIAL SCIENCES