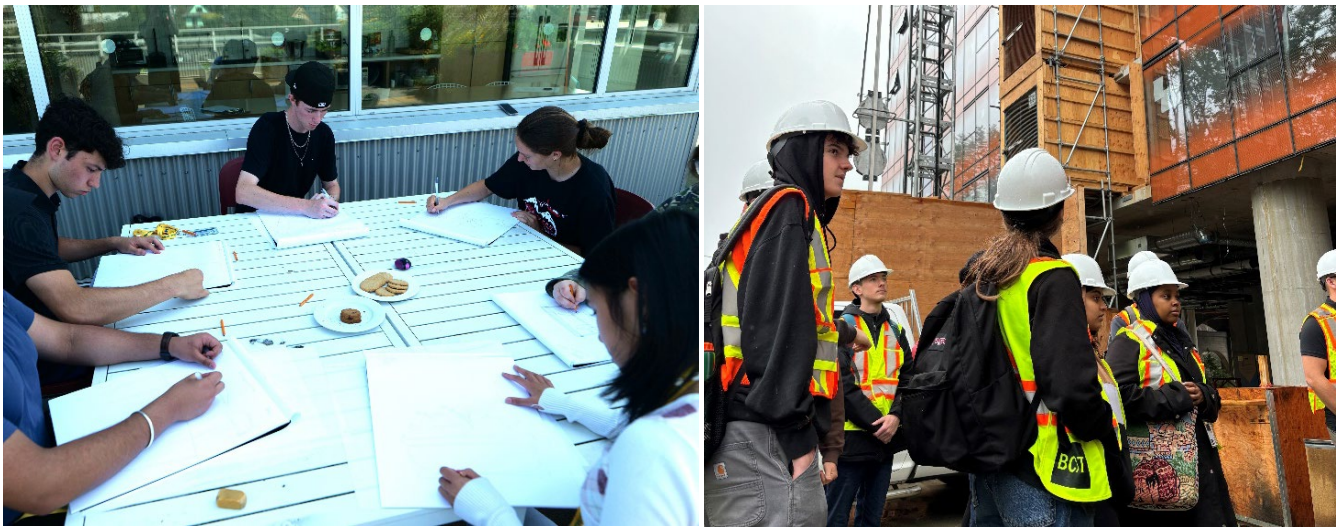


School of Construction and the Environment

CERTIFICATE IN ESSENTIAL TECHNICAL SKILLS FOR ARCHITECTURE, CONSTRUCTION AND ENGINEERING (“ACE CERTIFICATE”)



The **Certificate in Essential Technical Skills in Architecture, Construction & Engineering (“ACE Certificate”)** is a unique educational program designed to introduce recent high school graduates to the fields of architecture, construction management, and engineering, referred to as the ACE sector. The ACE Certificate provides the opportunity to gain in-demand skills and experience relevant to the design-build field in a blended, applied approach to learning that combines in-classroom, in the workplace and online components. Through this unique experience of ‘learning and doing’, students are introduced to concepts and terminology used in the ACE sector, develop entry level skills, and apply the skills and knowledge from the classroom in the real world through paid internship placements with industry partners.

ACE Certificate students participate in a Summer Intensive at the BCIT Burnaby Campus, which includes classroom learning, fieldtrips to local design firms and construction sites and practicing entry level skills through hands-on assignments. Students will continue their learning through BCIT online courses, while completing the work-integrated-learning component of the program: two 6-month paid internships with ACE industry partners. The aim of this unique immersive polytechnic program is to support student exploration of the spectrum of careers that exist within the ACE sector and prepare them to make more informed decisions about the area of speciality that most interests them to both continue their education and consider a career path.

The ACE Certificate has been specifically designed to meet the needs of students with motivation and aptitude who may be facing a variety of barriers and currently have no set plan for attending post-secondary. The ACE Certificate is for

students who are not sure what career they want to pursue and perhaps didn't think they would be able to go to post-secondary. If you already have a post-secondary program in mind, the ACE Certificate is not for you. Please pursue your dream.

July 2025 - August 2026 [14 months]
Applications open January 6, 2025

The ACE Certificate is a 14-month program and is comprised of two segments:

1. The first segment of the ACE Certificate, the ***ACE Summer Intensive***, runs for six weeks in July and August. Classes are held at the BCIT Burnaby Campus [3700 Willingdon Avenue, Burnaby, BC.]. During the ACE Summer Intensive, students complete the following courses:
 - **ACED 1200 Digital Modelling Fundamentals** [3.0 credits, in-person]
 - **ACED 1210 Introduction to Construction Project Management** [2.0 credits, in-person]
 - **ACED 1220 Introduction to Building Technology** [3.0 credits, in-person]Students who successfully complete all three courses in the ACE Summer Intensive advance into the second segment of the ACE Certificate program.
2. The second segment of the ACE Certificate runs from September to August, and includes the following elements:
 - a. Five sequential online courses over one year:
 - **ACED 1205 Revit Fundamentals** [3.0 credits, online]
 - **COMM 1108 Introduction to Business Communication for the Construction Professional** [3.0 credits, online]
 - **BLDC 1051 Introduction to Materials and Methods for the Design-Build Trainee** [3.0 credits, online]
 - **ACED 1305 Introduction to Systems - Structural, Mechanical & Electrical** [3.0 credits, online]
 - **BLDT 1042 Construction Estimating Fundamentals using Digital Tools** [3.0 credits, online]
 - b. Two full-time paid practicum placements ['work-integrated-learning'] supported by two practicum courses delivered over one year, concurrently with the above noted online courses.

ENTRANCE RECOMMENDATIONS:

It is recommended that applicants to the program possess the following skills and experience prior to entry:

- English 12 or equivalent
- BC High School completion [or equivalent]
- Basic computer proficiency
- Good business communication skills, and/or the desire to develop or improve them [including speaking on the phone and in person, and writing emails]
- A keen interest in exploring careers within the field of architecture, construction and engineering

Interested students should contact Ann Martineau for more information and to request an application package.

FOR MORE INFORMATION:

ANN MARTINEAU | 604.412-7492 | AMARTINEAU@BCIT.CA | BCIT.CA/ACE

A photograph of two students in a workshop. The student in the foreground is a young woman with brown hair tied back, wearing safety glasses and bright yellow gloves. She is using a yellow and black power drill to work on a wooden frame. The student in the background is a young woman with long black hair, also wearing safety glasses. They are working on a wall made of large, textured, brown panels. The text 'HEY CLASS OF 2025 GRADS!!' is overlaid at the top in yellow, and 'What are your plans after Graduation?' is overlaid below it in blue.

HEY CLASS OF 2025 GRADS!!

What are your plans after Graduation?

BCIT's ACE Certificate – July 2025 Intake

Are you interested in Architecture, Construction Management and Engineering, but aren't sure which way to turn or how to get there?

BCIT's ACE Certificate introduces high school grads to the design and technical skills that are highly sought after by today's top employers in these fields.

The ACE Certificate runs from July 2025 to August 2026 and includes in-person and online courses plus paid work internships! For more information contact your District Career Counsellor, High School Counsellor or Ann Martineau (amartineau@bcit.ca)

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