

CAMOSUN COLLEGE

**ENGINEERING BRIDGE
PROGRAMS**

to

**The University of British Columbia -
Vancouver or Okanagan Campuses**

INFORMATION BOOKLET

Further information at camosun.ca:

[Civil Engineering Bridge to the University of British Columbia](#)
[Mechanical Engineering Bridge to the University of British Columbia](#)
[Mining Engineering Bridge to the University of British Columbia](#)



Publication Information

Readers should be aware of the following:

1. This booklet is not intended to be a complete statement of all procedures, policies, rules and regulations pertaining to the Engineering Bridge programs at Camosun College.
2. The College reserves the right to cancel or change any course or program at any time.
3. This booklet was written based on the information available at the time of its creation. We are not responsible for changes or omissions.

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1 GENERAL INFORMATION

1.1 Introduction

Camosun College offers the Engineering Bridge programs in partnership with the University of British Columbia (UBC) at their Vancouver (UBC V) and Okanagan (UBC O) campuses. The Bridge programs are intended to provide direct access to the third year of Engineering at UBC in Civil, Mining or Mechanical Engineering. Graduates of the Engineering Bridge program in one of the above disciplines will receive an advanced diploma in the appropriate discipline. Please refer to our website at camosun.ca for more information.

DIPLOMA PROGRAM	SEPTEMBER – AUGUST BRIDGE	SEPTEMBER THIRD YEAR ENGINEERING
Civil (or related) Engineering Technology	Civil Engineering Bridge to the University of British Columbia	Civil Engineering at UBC V and UBC O
Mechanical (or related) Engineering Technology	Mechanical Engineering Bridge to the University of British Columbia	Mechanical Engineering at UBC V and UBC O
Mining (or related) Engineering Technology	Mining Engineering Bridge to the University of British Columbia	Mining Engineering at UBC V

Note that during third and fourth year, all universities require an additional two or three courses, depending on the technology diploma leading into the Bridge. In some cases this may result in an extra semester being required, especially if you are destined for UBC O.

1.2 Engineering at UBC

Faculty of Applied Science: www.apsc.ubc.ca

Engineering Coop: www.coop.apsc.ubc.ca

The third year of the Engineering programs at UBC V commence in September for Civil, Mechanical and Mining Engineering. The third year at UBC O begins in September for Civil and Mechanical Engineering.

Students entering UBC should prepare for demanding third- and fourth-year studies. Part-time options are available to students who have concerns about managing full course loads. Several specialization options are available.

Engineering students entering UBC V from the Bridge program can combine four semesters of academic studies with over a year of work experience through the Co-operative Education program. Students can expect increasing responsibility on work assignments as they progress. This experience will be a valuable contribution to the student's professional development. Up to eight months of Co-op or discipline-related work experience may be eligible for credit. Contact the UBC Co-op department immediately upon entry.

Without Co-op and without a specialization option, students heading to UBC V can expect to complete their degrees in two years upon arrival at UBC V; students heading to UBC O will complete their degrees in 2 years, 4 months. Adding Co-op adds an additional year, as does the adding of a specialization option.

The Bachelor of Applied Science programs at UBC (both campuses) are accredited with the Canadian Engineering Accreditation Board (CEAB).

Note: Students attending UBC O will be required to have to their own laptop computer.

1.3 Location of the Bridge programs

All of the Engineering Bridge programs are offered at the Interurban campus of Camosun College, 8 km northwest of Victoria's city center and 9 km northwest of UVic. (Refer to BC Transit bus routes and detailed maps of the Greater Victoria region <http://www.transitbc.com/regions/vic>). A map of the Interurban campus is available at: <http://camosun.ca/about/campus-maps.html>.

1.4 Duration and path of the Bridge programs

All Bridge programs consist of two semesters in sequence, followed by an optional Internship work term. A semester is 15 weeks in duration – 14 weeks of classes followed by a one-week exam period.

The **Engineering Bridge Programs to the University of British Columbia** start at the beginning of September and end in April; although the optional Internship work term could extend the program to the end of August. Successful students transfer into the first academic term of third year engineering at UBC V or UBC O in September.

1.5 Fees

Fees for the first term of the Camosun College Engineering Bridge programs, including ancillary fees, are currently between \$1800.00 and \$2200.00. Textbooks and supplies are not included. All fees are subject to change. For accurate fee information, please refer to the Camosun College website: <http://camosun.ca/learn/fees>.

1.6 Financial aid and awards

Students enrolled in Engineering Bridge programs qualify for student loans. For further information please contact the Financial Aid office at Camosun College. Consult Camosun's website for details on available awards.

Camosun College Financial Aid Services

Interurban Campus, Camosun College
4461 Interurban Rd, Victoria, BC V9E 2C1
Phone: 250-370-4862
Website: [Financial Aid and Awards - Camosun College](http://camosun.ca/learn/fees)
E-mail: financialaid@camosun.bc.ca

Graduates of the Engineering Bridge programs may contact the financial aid department at their destination universities.

UBC Student Financial Assistance

Enrolment Services, Brock Hall
1206 – 1874 East Mall, Vancouver, BC V6T 1Z1
Phone: 604-822-5111
Website: students.ubc.ca/finance
E-mail: awards.inquiry@ubc.ca

UBC has a variety of entrance scholarships available. For more information consult the website at:

<http://students.ubc.ca/welcome/finance.cfm?page=scholarships&view=entrance>

1.7 1.7 Course exemptions and prior learning assessment (PLA)

1.7.1 Course Exemptions

camosun.ca/learn/calendar/current/pdf/admin-reg-policies.pdf

Course exemptions are authorized by Camosun College in consultation with the University of British Columbia. A course exemption is awarded if UBC agrees that the coursework can be used for admission to their Engineering program. Up to two course exemptions may be granted towards Bridge courses.

Course exemptions are not evaluated until after a Bridge applicant has received the formal offer of a Bridge seat. Students should note that coursework utilized in their Technology Diploma program is not eligible for exemption. Determination of course exemptions can take up to four months, so late applicants may not be entitled. Fees for course exemption applications: camosun.ca/learn/calendar/current/pdf/fees-finance-policies.pdf (See Miscellaneous Fees and Charges)

Credits may be granted for co-op work experience gained in the diploma program. Application for co-op work term transfer credit is made to UBC Engineering Co-op, once admission to the university has been confirmed. For more information on UBC's work term transfer/challenge credits, please consult the Engineering Co-op website at: <http://www.coop.apsc.ubc.ca/>.

1.8 English requirements UBC

All applicants, regardless of country of origin or of citizenship status, will be required to demonstrate competence in the English language prior to admission. Applicants who have not completed three or more consecutive years of full-time education in English within Canada immediately prior to attending UBC must demonstrate their English competency as outlined by UBC's English Language Admission Standard (ELAS) (<https://you.ubc.ca/ubc/vancouver/elas.ezc>), and may wish to submit a waiver request (<https://you.ubc.ca/ubc/vancouver/elaswaiver.ezc>) based on English or technical communications courses in their diploma or other studies, letters of recommendation from teachers or principals, English achievement test scores, and/or English experience in the workplace.

All undergraduate students must satisfy the minimum Undergraduate English Requirement in order to graduate from UBC. For more information on UBC's Undergraduate English Requirement, please consult:
<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,195,272,30>
<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,317,989,1187>

Once admitted to UBC, students will not normally be permitted to satisfy the English requirements at another institution. A language proficiency index (LPI) must be completed (unless exempt <http://www.english.ubc.ca/ugrad/1styear/faq.htm#14>) before taking UBC first year English courses.

One of the courses needed by all UBC engineers is ENGL 112. For Bridge students who meet UBC admission requirements, this course must be completed before the beginning of fourth year. If they wish, students can elect to take an English course that is equivalent to UBC's ENGL 112 prior to beginning studies at UBC. Camosun's ENGL 151 (available both online and face to face) and TRU's ENGL 1101 and ENGL 1999, both online, are eligible choices, for example. After beginning studies at UBC, a student who obtains a level 5 Language Proficiency Index may request a letter of permission to take an ENGL 112 equivalent at another institution if they are unable to take the course at UBC.

1.9 Further information

If you have any questions or concerns regarding the Engineering Bridge programs at Camosun College, e-mail engbridge@camosun.bc.ca.

Questions concerning the UBC Faculty of Applied Science should be directed to Mary Murphy at mary.murphy@ubc.ca or by telephone 604-822-6556.

2 ADMISSION REQUIREMENTS

2.1 Engineering Bridge program at Camosun College

The Engineering Bridge Programs at Camosun College are recognized across Canada as an excellent transition from a Technology diploma to an Engineering degree. Graduate technologists with a diploma from a Canadian institution in Civil, Mechanical or Mining Engineering Technology are welcome to apply. The diploma program must as a minimum be accredited by the Canadian Technology Accreditation Board (CTAB) and a detailed program review will be required as well. Diploma programs must have been completed within 5 years of the application to the Bridge program.

Unfortunately, due to Canadian Engineering Accreditation Board restrictions, international diplomas do not qualify for Engineering Bridge programs.

Technology students who are in progress and expect to graduate by the beginning of the Bridge program may also apply. Applications will be evaluated based on the marks at the time of the application deadline. Up-to-date transcripts are required for in-progress applications. Seat offers will be conditional, based on successful completion of the diploma program. Final transcripts with the diploma awarded must be received at Camosun College prior to the start of the Bridge program.

Ranking of applications to the Bridge program is based on the cumulative Grade Point Average (GPA) of the Technology diploma. The **minimum** cumulative GPA to qualify for consideration is 5.0 on Camosun's 9 point scale (73% or equivalent) with a minimum grade of 60% in all courses. GPAs will be calculated based on all courses taken within the diploma program. In cases where a course has been repeated, grades from both instances of the course contribute to the calculation of the GPA. Unfortunately, work experience in no way influences the GPA requirement.

2.2 Student ranking

This program is not governed by Camosun College's policies on admission and academic progress and promotion. All students will be ranked according to their cumulative GPA at the time of the application deadline. Camosun College, in conjunction with the Faculty of Applied Science at UBC, determines which students and also the number of students admitted into the Bridge programs. Where the number of applications exceeds the number of seats available, the highest ranked students will be offered the seats. UBC policy stipulates that no upgrading of diploma courses for the purpose of upgrading GPA is possible after the diploma has been awarded. Diploma averages determined to be less than 5.0 may still be considered. These students will be considered on an exceptional basis, after all other qualified applicants are considered, in GPA order as space allows. Completion criteria of the Engineering Bridge courses may vary. See Completion Criteria below.

Students planning to attend UBC are emailed with a request to submit their preference for UBC V or UBC O. Seats in the UBC Bridge programs will be allocated based on the above ranking system and the students' preferred institution. Therefore, the higher ranked students will be offered their first choice and students with lower GPAs may not get their preferred university seat. Where possible, student university preferences will be accommodated if space becomes available.

Late qualified applicants will be accepted on a first come, first served basis where space allows.

2.3 Completion criteria

To be accepted into the third year of Engineering at UBC, the student must have completed the Engineering Bridge program with a grade of C or better in all courses. In addition, a student with a D or F in a course must obtain a C+ or better when the course is re-taken, before proceeding to UBC.

UBC graduation requirements include completion of up to three additional courses during the third and fourth year. This may involve an additional term of study.

Permission to repeat the Bridge programs, in whole or in part, is at the discretion of the Bridge program coordinator; however all courses must be completed within two consecutive offerings of the Bridge program.

3 ACADEMIC PROGRESS

3.1 Part-time students

Students who wish to take the Engineering Bridge as part-time students may do so either from the beginning or after commencement of classes. However, when withdrawing from courses that are underway, it is important to do so prior to the withdraw deadline to avoid academic penalty. Once you have withdrawn from a course, you become a part-time student and can only be accommodated when course space is available, as full-time students take priority. Because UBC requires that you meet their admission requirements within two consecutive Bridge intakes, withdrawing from a course can have significant consequences. Please meet with the Engineering Bridge Coordinator if you are considering withdrawing from an Engineering Bridge course.

3.2 Minimum grade requirements

Unless otherwise stated in a conditional admission offer, you are deemed to be successful in a course if you receive a C grade. If you receive a D or an F grade in a course, you will have to repeat the course. UBC requires that you obtain a C+ or higher if you are repeating a course. If you get less than 50% on a final exam you can receive at best a D grade for the course. If you do receive a D grade, you may be eligible to seek PLA.

3.3 Prior Learning Assessment (PLA) in progress

PLA may be available to Bridge students who have been unsuccessful in a Bridge course. PLA is a process that tests knowledge and may require the completion of assignments as well as examinations. A student must normally have obtained at least a D grade in a course in order to be eligible for a PLA within the Engineering Bridge, but PLAs may be offered in exceptional circumstances at the discretion of the instructor and/or chair.

The cost for the PLA is half of the usual course cost. Only one PLA per course is permitted, and a PLA cannot be administered until four months after an unsuccessful

academic attempt. A student who wishes to pursue a PLA must have the approval of the chair of the department administering the PLA and the Engineering Bridge Coordinator.

4 APPLICATION PROCESS

The application process for all Engineering Bridge applicants has three stages. All documentation for stages 1 and 2 goes to Camosun College. All documentation for stage 3 goes to UBC.

4.1 Stage 1

All supporting documentation in stage 1 must be forwarded to:

Camosun College
Admissions
Interurban Campus
4461 Interurban Rd.
Victoria, BC V9E 2C1

By the stage 1 deadline, the following steps must be completed:

1. Submit the Camosun College application form with the appropriate application fee:
 - application fee: \$ 41.82 Canadian citizens and Permanent Residents
 - application fee: \$100.00 International applicants camosun.ca/international

Application fees can be paid by cheque, money order, credit card (American Express, Visa or MasterCard only), cash, or debit.

Applications may be made through the APPLY BC website at: applybc.ca or through a paper application process obtained at camosun.ca. To apply using this paper form, you must download the form, fill it in and submit to Admissions at either campus or mail it to the address above. Ensure a credit card number or cheque is included for the application fee.

2. Arrange for submission of two official High School transcripts and two official transcripts from every post-secondary institution you have attended. Transcripts should be issued directly to Camosun College Admissions at the address above. Documents must be received **directly** from the issuing institution to be considered official. **Ensure that transcripts indicate the credential awarded.**

Camosun College graduates do not need to submit their Camosun College transcripts and only one official High School transcript is required. Two official transcripts from all other post-secondary institutions are required.

Note: Two official “in progress” (interim) transcripts are required for an evaluation of applicants who have not yet completed the technology diploma program. These transcripts must show courses completed at the time of the application deadline date and courses applicants are currently enrolled in. **Two official transcripts** showing final grades will be required immediately after graduation from the technology diploma program, and **must show that the diploma has been granted.**

Transcripts (final or in-progress) must be received by the stage 1 deadline in order for your application to be processed.

Applications that do not include all transcripts will not be considered for admission.

Notification of application status

We will inform you by letter if you have been:

- accepted into the program
- waitlisted
- not accepted

You will be notified of your status in April for the UBC Bridge programs. Unsuccessful applicants who wish to re-apply **must** follow **all original** application procedures. Waitlists are not carried over to future intakes.

4.2 Stage 2

All supporting documentation in stage 2 must be forwarded to:

Camosun College
Admissions
Interurban Campus
4461 Interurban Rd.
Victoria, BC V9E 2C1

By the stage 2 deadline, the following must be completed:

Once you have received a seat offer for Camosun's Engineering Bridge program, you will need to submit the \$175 non-refundable deposit (\$5,000 with a copy of valid study permit for international students) by the deadline specified on your offer letter to Camosun College Admissions. You may pay your deposit with credit card by calling toll free - 1- 877- 554-7555 or with cash or debit in person at either campus, during service hours.

You will begin attending classes between the stage 2 and stage 3 deadlines.

Important: It is each student's responsibility to attend the first class meeting of each course. If a student does not attend and does not contact the instructor within two working days following the first class with a satisfactory explanation, admittance to the course may be denied. If a student does not attend classes and does not officially withdraw (via the Registration Department) prior to fee deadlines, he or she will be required to pay all outstanding fees, will receive no further service until the fees are paid, and may receive an "F" grade.

4.3 Stage 3

All supporting documentation in stage 3 must be forwarded to UBC.

By the stage 3 deadline, the following must be completed:

To UBC:

You must apply to UBC online at: <http://you.ubc.ca/> with the appropriate application fee by the stage 3 deadline:

- application fee: \$69.25 for Canadian citizens and Permanent Resident Applicants
- application fee: \$116.25. for International applicants

Note: The second set of transcripts that you submitted to Camosun College at the time of your application will have been sent to UBC. No transcripts are needed at this stage, but one final Camosun College transcript showing the credential awarded for your Bridge program will be required by the university. Details about this will be made available during your final term.

5 PROGRAM INFORMATION AND COURSE LISTS

Many of the courses offered in the Engineering Bridge programs in Civil, Mining, and Mechanical Engineering are common. These courses have been developed in consultation and cooperation with UBC to augment the courses offered in the relevant technology programs.

5.1 Civil Engineering Bridge

Academic Term 1 (Fall – September through December)		26.5 hours/week	
Course	Course Name	Hrs/wk	Credits
CHEM 150	Engineering Chemistry	6.5	4
COMP 130	Computing for Engineers	5	3
ENGR 262	Analytical Methods	5	3
MATH 250A	Intermediate Calculus 1	5	4
MATH 251	Matrix Algebra for Engineers	5	4
CDEV WPS	Workplace Preparation Skills (Optional)	4	0

Academic Term 2 (Winter – January through April)		26.5 ¹ /25.5 ² hours/week	
Course	Course Name	Hrs/wk	Credits
ENGR 166	Geology for Engineers	4.5	3
ENGR 264	Engineering Mechanics	5	3
MATH 250B	Intermediate Calculus 2	4	3
MATH 252	Applied Differential Equations	4	3
STAT 254 ¹ or	Probability and Statistics for Engineers	4	3
ENGL 151 ²	Academic Writing Strategies	3	3
PHYS 295	Physics (Engineering Bridge)	5	3

¹ for UBC O students

² for UBC V students

Internship (Optional - May through August)

Course	Course Name	Hrs/wk	Credits
ENGR 104	Work Term		4.0

5.2 Mechanical Engineering Bridge to the University of British Columbia

Mechanical Engineering Bridge students transfer to either campus of UBC (UBC V or UBC O) from this intake.

Academic Term 1 (Fall – September through December)			28 hours/week
Course	Course Name	Hrs/wk	Credits
CHEM 150	Engineering Chemistry	6.5	4
COMP 130	Computing for Engineers	5	3
ECET 250E	Linear Circuits 1	6.5	4
MATH 250A	Intermediate Calculus 1	5	4
MATH 251	Matrix Algebra for Engineers	5	4
CDEV WPS	Workplace Preparation Skills	4	0

Academic Term 2 (Winter – January through April)			27 ¹ /26 ² hours/week
Course	Course Name	Hrs/wk	Credits
ENGR 291	Solid Mechanics and Dynamics	3.5	3
ENGR 292	Fluids and Thermodynamics	3.5	3
ENGR 293	Project Management and Design	3	3
MATH 250B	Intermediate Calculus 2	4	3
MATH 252	Applied Differential Equations	4	3
STAT 254 ¹ or	Probability and Statistics for Engineers	4	3
ENGL 151 ²	Academic Writing Strategies	3	3
PHYS 295	Physics (Engineering Bridge)	5	3

¹ for UBC O students

² for UBC V students

Internship (Optional - May through August)

Course	Course Name	Hrs/wk	Credits
ENGR 104	Work Term		4.0

5.3 Mining Engineering Bridge

Academic Term 1 (Fall – September through December)		26.5 hours/week	
Course	Course Name	Hrs/wk	Credits
CHEM 150	Engineering Chemistry	6.5	4
COMP 130	Computing for Engineers	5	3
ENGR 262	Analytical Methods	5	3
MATH 250A	Intermediate Calculus 1	5	4
MATH 251	Matrix Algebra for Engineers	5	4
CDEV WPS	Workplace Preparation Skills	4	0

Academic Term 2 (Winter – January through April)		26.5 hours/week	
Course	Course Name	Hrs/wk	Credits
ENGR 166	Geology for Engineers	4.5	3
ENGR 264	Engineering Mechanics	5	3
MATH 250B	Intermediate Calculus 2	4	3
MATH 252	Applied Differential Equations	4	3
STAT 254	Probability and Statistics for Engineers	4	3
PHYS 295	Physics (Engineering Bridge)	5	3

Internship (Optional - May through August)

Course	Course Name	Hrs/wk	Credits
ENGR 104	Work Term		4.0