School of Engineering

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A School within the Faculty of Applied Science

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The School of Engineering at the UBC Okanagan campus offers the Bachelor of Applied Science (B.A.Sc.) degree in Civil Engineering, Electrical Engineering, and Mechanical Engineering. Each program is accredited by the Canadian Engineering Accreditation Board. The School also offers a Bachelor of Applied Science (B.A.Sc.) degree in Manufacturing Engineering. Qualified applicants can be admitted directly from secondary school into Engineering One. Students may also enter the Engineering program after having successfully completed the equivalent of first-year Science. There are also admission routes via engineering transfer programs at various colleges and Engineering Bridge programs with Okanagan College and Camosun College.

Following entry from secondary school, the B.A.Sc. degree generally requires four or five years to complete.

The first-year program is common to all Engineering disciplines and lays the foundation for Engineering specializations in subsequent years. It is equivalent to first-year Engineering at the UBC Vancouver campus. The engineering-specific curriculum emphasizes project-based team learning, and offers first-year students the opportunity to implement the principles of engineering in a second-term design project. Upon successful completion of year one, students have the option of continuing at the UBC Okanagan campus in the second year of the integrated program or transferring to the UBC Vancouver campus. Students who elect to transfer compete for program spaces with students at the UBC Vancouver campus and limited seats are available.

Scheduled field trips and the activities of professional and technical societies complement the undergraduate programs, and students are expected to participate in them as fully as circumstances permit.

An optional Co-operative Education program, which integrates academic study with supervised work experience, is available during the second year.

Bachelor of Applied Science Program

Bachelor of Applied Science Program > Admission Requirements

Application for admission to the School of Engineering must be made through Enrolment Services. Procedures, policies, and admission requirements of UBC and the School of Engineering are specified in Admissions (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=2,0,0,0 © 2019 The University of British Columbia | Okanagan
Information in this Calendar is subject to change. Visit www.calendar.ubc.ca/okanagan for current details.
This document was generated on 26 Aug 2019 at 2:11 PM.)
Due to limited resources, the School has been authorized to restrict enrolment in year one and within individual Engineering programs at the second-year level. Attainment of the minimum academic requirements listed below implies that the applicant is eligible for selection, but does not provide assurance of admission. The selection is based on academic standing. For most Engineering programs, the competition for places is such that standing above the minimum prescribed requirements is necessary to ensure admission.

Note: proficiency in mathematics is an important part of preparing for Engineering courses. Experience has shown that UBC students with grades below 65% in mathematics (below B at a college) are likely to have difficulty with many Engineering courses.

**Admission from BC/Yukon Grade 12 (or equivalent)**

In addition to satisfying University admission requirements, applicants must have completed mathematics, physics, and chemistry at the British Columbia Grade 12 level, or the equivalent. Students will be selected on the basis of their standing in Grade 12 courses in mathematics, chemistry, physics, and English. Applicants from schools where either Physics 12 or Chemistry 12 is not available may petition to be excused this deficiency.

**Admission from a Post-Secondary Institution**

Applicants from another faculty at UBC or another post-secondary institution may be considered for admission to the School of Engineering. An overall average of at least 65%, including any failed courses, is required. The overall average is calculated in accordance with the general admission requirement for undergraduate admission as specified in Applicants from a College or University (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=2,344,0,0).

Applicants must also have an average of at least 70% in all chemistry, mathematics, and physics courses that transfer to the first-year Engineering program. Courses to be considered in this average of mathematics, chemistry, and physics courses are not limited to the last 30 credits only. Where two courses, or one repeated course, have been taken which transfer to one of the courses of the first-year engineering program, only the grade of the latest course will be used in calculating this average.

Admission to the Engineering program is competitive. Applicants who meet all of these criteria are not guaranteed admission.

Applicants with fewer than 24 transferable credits from a post-secondary institution are evaluated against both secondary and post-secondary admission criteria.

Applicants with more than 24 credits that transfer to first-year Engineering may be eligible for second-year Engineering. Advice on transfer credit is available from the School of Engineering. Deficiencies from first year must be completed prior to graduation.

Students admitted to second year must complete a Second-Year Program Preference Form by June 15.

**Admission from UBC Engineering Transfer Programs**

Students who have completed first-year Engineering at a college offering a UBC transfer program are eligible to be considered for admission to second-year Engineering provided that they have obtained an overall grade average of at least 65%.

**Transition from UBC Vantage College**

The Faculty of Applied Science delivers engineering programs at both UBC campuses: Okanagan and Vancouver. The Faculty has
UBC Vantage College students who pass all courses in the Engineering stream with an average of at least 60% will be eligible for year two of the BASc degree program.

Program selection is competitive, and all students will be asked to rank both their preferred campus and their eligible program.

Academic performance at the end of the winter session and a personal statement are considered in placing students into programs in second year. Students who do not successfully complete the full UBC Vantage College Engineering Stream or who achieve an average lower than 60% in the full program can apply to be reviewed on a case-by-case basis for evidence of academic promise for continued study in Engineering at UBC. The UBC Vantage College Engineering Stream is not equivalent to the direct entry BASc first year program. Therefore, while successful completion of the Vantage College Engineering Stream will result in eligibility for second year standing, there are program requirements normally completed in first year that will not have been met and that must be completed prior to graduation. Please consult here for details on Vancounver Engineering programs and here for details on Okanagan Engineering programs.

Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Biomedical, Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering. Admission from Okanagan College Courses to Engineering Students with a two-year diploma in Civil, Electronic, or Mechanical Engineering Technology from Okanagan College.

Students transferring into the program may be granted transfer credit if they have completed courses of equivalent content.

Eligible programs include: Okanagan Campus: Electrical, Mechanical and Civil Engineering. Vancouver Campus: Biomedical, Chemical, Chemical and Biological, Computer, Electrical, Environmental, Geological, Integrated, Materials, and Mining Engineering. Admission from Okanagan College Courses to Engineering Students with a two-year diploma in Civil, Electronic, or Mechanical Engineering Technology from Okanagan College.

Admission from Okanagan College Courses to Engineering Students with a two-year diploma in Civil, Electronic, or Mechanical Engineering Technology from Okanagan College.

Students must successfully complete the corresponding Engineering Program with a minimum grade of 60% in each course, and a minimum average of 70% in all courses other than University Writing (ENG 110) and/or University Writing (ENG 112). Typically, students admitted from each Engineering Bridge program will require two and a half years of additional study at UBC Okanagan to complete the B.A.Sc. degree requirements. Admission from Camosun College Engineering Bridge Programs to Civil or Mechanical Engineering Students with a two-year diploma in Civil or Mechanical Technology may be admitted to the third year of the B.A.Sc. program in Civil Engineering or Mechanical Engineering upon successful completion of an Engineering Bridge program offered by Camosun College. Students must achieve a minimum of 60% in each course and a minimum average in Civil Engineering or Mechanical Engineering upon successful completion of an Engineering Bridge program offered by Camosun College. Students must achieve a minimum of 60% in each course and a minimum average of 70% in all courses to be considered for admission to the B.A.Sc. program. Admitted students will be required to take additional UBC Okanagan campus courses from a list provided by the School of Engineering to fulfill B.A.Sc. degree requirements. Typically, students admitted from a Camosun College Engineering Bridge program will require two and a half years of additional study at the UBC Okanagan campus to complete the B.A.Sc. degree requirement. Following Two-Year Technology Diploma Programs Not Including Bridge Programs Students are eligible to be considered for admission if they have completed an appropriate two-year technology diploma program with an overall average of at least 70%. Admission is normally into first-year Engineering, unless the student has completed an approved Engineering bridge program.

Last updated: April 11, 2019

Bachelor of Applied Science Program > Academic Advising

Academic advising is available through Engineering Advising. Engineering Advising assists students in academic planning, interpreting Faculty course requirements and regulations, and resolving academic and personal problems. Last updated: April 11, 2019

Bachelor of Applied Science Program > Academic Regulations

Dean’s Honour List: Students in any Winter Session with a seminar average of at least 80% while taking 30 or more credits will receive the notation “Dean’s Honour List” on their record. Degree with Distinction: Students will be granted a degree with distinction upon graduation if he or she achieves an overall average of at least 80% on 200-level and higher courses while registered in the B.A.Sc. program. Student Classification: The required courses and electives for the Winter Session are shown in the following section. The normal completion time is four to five years. Students may take higher loads than those shown below with the approval of the Dean’s Office. To be considered full time, students must carry a load in the Winter Session equal to at least 80% of the standard credit load for the year and program in which they are registered. Note: The Faculty’s definition of full-time status may differ from that of the Student Financial Assistance Awards office in determining eligibility for financial assistance. Check with Student Services and Financial Support (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=306_308_081428) to ensure eligibility for scholarships and awards. Students with approval for a Winter Session credit load less than that required for full-time status will be considered part-time. Part-time students will not normally be eligible for scholarships or for “Degree with Distinction” status. Students taking courses from more than one year level will normally be given academic year status based on the program year of the majority of credits being taken. Examinations Examinations are held in December and in April. In all courses which includes both lecture and laboratory work, students must complete the laboratory assignments with satisfactory standing before being admitted to the written examination of the course, and must pass in the material of both components before standing will be granted in the subject. The minimum passing mark in each course is 50%. Applications for special consideration for examinations missed due to a medical condition, emotional or other problems, must be submitted to the Dean’s Office (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=306_308_081428). Advancement To pass the year, students must obtain an overall average of at least 55% in the Winter Session, and a pass in 65% of credits taken. Students who fail a year will be required to discontinue studies in the School for at least one year, and are eligible to apply for readmission in the following Winter Session. Students who fail a second time will be required to withdraw. In a failed year, students who have passed their Winter Session will be granted credit for all courses passed. Students who withdraw during Term 2 of Winter Session after obtaining less than 55% on the December examinations will not be readmitted for the following Winter Session, but are eligible to apply for readmission after that year. Progress requirements are governed by the following:

First Year
- 0-27 credits
Second Year
- 28-63 credits
Third Year
- 64-99 credits

Pass APSC 176 (or equivalent)
Pass APSC 169 (or equivalent)
Fourth Year
- 100+ credits
Pass APSC 201 (or equivalent)
Pass APSC 258 (or equivalent)

Students must pass APSC 176 (or equivalent) and APSC 169 (or equivalent) prior to promotion to third year. Students must pass APSC 201 (or equivalent) and APSC 258 (or equivalent) prior to promotion to fourth year. In addition, to be promoted to the subsequent year, students must have completed all courses from the prior year and at least 27 credits from the current winter exams and examination papers may be released a passing mark if they are noticeably deficient in English/Supplementary Examinations There are no supplementary examinations for courses offered within the Faculty, with the exception of final year of study. Note: supplementary examinations may not be offered in all courses. At the discretion of the Dean’s Office, a student may be granted to a student for a 300-level course, provided that the course is the last remaining course required for degree completion. Supplementary examinations are available only to students who have failed their year. Students must have failed a course but received a final grade of at least 40% in order to be eligible to write a supplementary examination in that course. Additional examinations are only offered during the deferred supplementary examination period. Supplementary examinations for courses terminating in December will normally be made available during the supplementary examination period in July/August. Appeals Current students may appeal year standing decisions to the Faculty of Applied Science Committee on Admissions, Standing, and Courses. Applications for readmission from non-current students should be directed to Enrolment Services. Field Trips Students who are required to participate in field trips will be responsible for expenses incurred during such trips. Last updated: April 11, 2019

Bachelor of Applied Science Program > Degree Requirements

Students will be granted a B.A.Sc. degree only after obtaining credit for all courses listed in the program of study for a given Engineering program. This requirement will normally be met by completing four Winter Sessions with full credit load (five Winter Sessions if completing the Co-operative Education Program). With the approval of the Dean’s Office, students may be allowed to study on a part-time basis. Credit will be granted for courses completed during the Summer Session. Students may be registered in courses in Winter Session and Summer Session in the same academic year, provided that the combined load does not exceed the approved full-time load for the Winter Session. Students wishing to take courses in another Faculty or School in the Summer Session must apply for approval to the Dean’s Office. The minimum requirements for each Faculty are as follows:

- Professional Development - ENGR 413: Law and Ethics for Engineers (3 credits)
- Communication - APSC 176: Engineering Communication (3 credits) and APSC 201: Technical Communication (3 credits);
- Impact of Technology on Society - APSC 169: Fundamentals of Sustainable Engineering Design (3 credits);
- Management - ENGR 303: Engineering Project Management (3 credits);
- Engineering Economics - ENGR 305: Engineering Economic Analysis (3 credits);
- Humanities and Social Sciences electives (3 credits); In general, scientific geography courses, statistical courses, and studio/performance courses in visual arts, music, and theatre will not satisfy this requirement. Courses that teach language skills are not acceptable. Suggested subjects include Anthropology, Art History, Cultural Studies, Economics, English (not ENGL 109, 112, 114), Geography (GEOG 128 or 129), Health Studies (HEAL 100), History, Indigenous Studies, Philosophy (not PhilM 120 or 125), Political Science, Psychology, and Sociology.

Details of the specific courses conforming to the above requirements are available from Engineering Advising. Last updated: April 11, 2019

Bachelor of Applied Science Program > Years 1 and 2

First Year: Students admitted into the Engineering program directly from secondary school will take the first-year Engineering curriculum. Other students will need to contact Engineering Advising for advice on their first-year program. Students proceeding to second year will have the option of continuing their Engineering program at the UBC Okanagan campus in Civil Engineering, Electrical Engineering, Manufacturing Engineering or Mechanical Engineering, or transferring to the UBC Vancouver campus into one of the following Biological, Chemical and Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Physics, Geological Engineering, Integrated Engineering, Materials Engineering, Mechanical Engineering, or Mining Engineering. Admission to a selected program is dependent on performance in first year.

APSC 169 Fundamentals of Sustainable Engineering Design 3
APSC 171 Engineering Drawing and CAD/CAM 3
APSC 172 Engineering Analysis I 3
Criteria must be met and include completion of 37 credits of first year UBC Okanagan Campus Applied Science. The admission process is competitive, with limited seats available.

Bachelor of Applied Science Program > Civil Engineering

In the third year and fourth years, students will follow a program in Civil Engineering, Electrical Engineering, or Mechanical Engineering.

Bachelor of Applied Science Program > Electrical Engineering

Bachelor of Applied Science Program > Mechanical Engineering
In the third year and fourth years, students will follow a program in Civil Engineering, Electrical Engineering, or Mechanical Engineering.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGR 365</td>
<td>3</td>
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<tr>
<td>ENGR 366</td>
<td>3</td>
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<tr>
<td>ENGR 315</td>
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<td>ENGR 320</td>
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<td>ENGR 368</td>
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<tr>
<td>ENGR 369</td>
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</table>

**Total Credits**: 38

**Design Electives**

- ENGR 415 Law and Ethics for Engineers
- ENGR 431 Microelectronics II
- ENGR 499 Engineering Capstone Design Project

**Note**: It is the student’s responsibility to ensure that the electives chosen meet the program graduation requirements for design and technical electives. The option consists of typical years one to three, followed by a set of prescribed fourth year courses with one additional required course (APSC 193). Students must complete a minimum of 120 credits, of which 60 credits are from the disciplines of management and finance. Students must achieve a minimum GPA of 2.0 in the fourth year and complete at least 36 credits for graduation. Students must also maintain good standing in the program. Applications for final-year admission must be made through the Engineering Advising Office by May 31st. Admission will be competitive based on GPA. Students may encounter difficulty fitting these 2 Computer Science (COSC) courses into their schedule. Careful planning is essential and completion of the Option may require a summer session or additional term of study beyond that required to complete the Bachelor of Applied Sciences degree alone.

**Bachelor of Applied Science Program > Manufacturing Engineering**

**Program Overview**

In the second, third and fourth years, students will follow a program Manufacturing Engineering.

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>APSC 201</td>
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<td>APSC 246</td>
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<td>APSC 248</td>
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<td>APSC 260</td>
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<tr>
<td>COE 210</td>
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</table>
## Bachelor of Applied Science Program > Mechanical Engineering

In the third and fourth years, students will follow a program in Civil Engineering, Electrical Engineering, or Mechanical Engineering.

### Third Year Mechanical Engineering Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 303</td>
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<tr>
<td>ENGR 305</td>
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<td>ENGR 310</td>
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<td>ENGR 385</td>
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<tr>
<td>ENGR 387</td>
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<tr>
<td><strong>Total Credits</strong></td>
<td><strong>36</strong></td>
</tr>
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### Fourth Year Mechanical Engineering Credits

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<tr>
<td>ENGR 413</td>
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<td>ENGR 430</td>
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<td>ENGR 443</td>
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<tr>
<td>ENGR 476</td>
<td>3</td>
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<tr>
<td>ENGR 499</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

### Technical Electives

To be chosen from a list of technical elective courses provided by the School of Engineering. Up to two third- or fourth-year courses offered outside the School of Engineering may qualify as technical electives with permission from the Mechanical Program Coordinator.

### Biomedical Option

Available to Mechanical and Electrical students, the Biomedical Option allows students interested in biomedical engineering and wearable technology to have courses focused in these areas.

Application to the Biomedical Option is open to students in year 2 and above in the Bachelor of Applied Science program specializing in Mechanical or Electrical Engineering. Applications for admission must be submitted to the Engineering Advising Office by May 31st. Enrolment in this option is limited and admission will be competitive based on GPA. The Biomedical Option under Mechanical Engineering requires the following courses:

- ENGR 351 Microelectronics I
- ENGR 401 Biomechanics

**Note:** To meet graduation requirements, students must take at least one of ENGR 491: Computational Fluid Dynamics and ENGR 492: Finite Element Methods as part of the 4th year elective requirements.
Note that it is the student's responsibility to ensure that the courses chosen meet the program requirements for design and technical elective credits. The student must select courses that total at least 18 credits in the Mechanical Engineering program and 12 credits in the Computer Science program. The program requires an additional year to complete the Bachelor of Applied Science degree. Students may encounter difficulties transferring a Computer Science (COSC) course into their new program, as the program does not offer a computer science minor. Students must ensure that the course is equivalent to a course within the Engineering program, and the program in which the course was taken is accredited.

Bachelor of Applied Science Program > Minor in Mathematics

Students desiring a stronger foundation in mathematics and/or engineering are encouraged to consider the minor in Mathematics. Upon successful completion of the Minor, students will be eligible to complete the Bachelor of Applied Science degree. Students may encounter difficulties transferring a Mathematics (MATH) course into their new program, as the program does not offer a mathematics minor. Students must ensure that the course is equivalent to a course within the Engineering program, and the program in which the course was taken is accredited.

Bachelor of Applied Science Program > Minor in Computer Science

The Bachelor of Applied Science Program > Minor in Computer Science is open to all students in the Bachelor of Applied Science program. Admission will be competitive based on the student's academic performance. Students must have completed at least 12 credits of coursework that will count toward the Bachelor of Applied Science degree. Students may encounter difficulties transferring a Computer Science (COSC) course into their new program, as the program does not offer a computer science minor. Students must ensure that the course is equivalent to a course within the Engineering program, and the program in which the course was taken is accredited.

Bachelor of Applied Science Program > Pre-Med Alternative Path (P-MAP)

This alternative path is intended for students with an engineering background who wish to enter UBC's medical school. The program provides access to courses strongly recommended by many medical schools, including the University of British Columbia. Students participating in this program must complete at least 18 credits of coursework that will count toward the Bachelor of Applied Science degree. Students may encounter difficulties transferring courses into the Engineering program, as the program does not offer a pre-med alternative path. Students must ensure that the courses are equivalent to courses within the Engineering program, and the program in which the course was taken is accredited.

Bachelor of Applied Science Program > Co-operative Education Program

The Bachelor of Applied Science Program > Co-operative Education Program is intended to provide motivated and qualified students with paid, faculty-monitored work experience that is relevant to their field of study. Students participating in this program must complete at least 90 credits of coursework that will count toward the Bachelor of Applied Science degree. Students may encounter difficulties transferring courses into the Engineering program, as the program does not offer a co-operative education program. Students must ensure that the courses are equivalent to courses within the Engineering program, and the program in which the course was taken is accredited.


The objective of this program is to meet the identified need to educate engineers with a unique combination of leadership and strong technical, multi-disciplinary knowledge relevant to the resource engineering sector. This program is aimed at students who wish to pursue their education in Resource Engineering Management beyond the undergraduate level, but who do not wish to pursue a full-time research program. This is not the appropriate program for students who wish to pursue a full-time research program. The program requires an additional year of full-time study beyond the Bachelor of Applied Science degree. Students must complete at least 18 credits of coursework that will count toward their Master's degree. Students may encounter difficulties transferring courses into the Engineering program, as the program does not offer a Master's degree. Students must ensure that the courses are equivalent to courses within the Engineering program, and the program in which the course was taken is accredited.

The program is governed by the general graduate guidelines of the College of Graduate and Postgraduate Studies. Students must have completed at least 12 credits of coursework that will count toward their Master's degree. Students may encounter difficulties transferring courses into the Engineering program, as the program does not offer a Master's degree. Students must ensure that the courses are equivalent to courses within the Engineering program, and the program in which the course was taken is accredited.
Other Graduate Programs (M.A.Sc., M.Eng., Ph.D.)

Information on the Master of Applied Science (M.A.Sc.) (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,285,981,1162), the Master of Engineering (M.Eng.) (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,285,981,1163), and the Doctor of Philosophy (Ph.D.) (http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,285,981,1164) programs can be found under the College of Graduate Studies. Last updated: May 9, 2019

Professional Associations

The right to practice engineering and accept professional responsibility in Canada is limited to those who are registered Professional Engineers. Registration is overseen by the 12 provincial and territorial engineering regulatory bodies that regulate the engineering professions in Canada. During the period between graduation and registration, the graduate who intends to practice in BC should be enrolled with Engineers and Geoscientists British Columbia as an "Engineer in Training." (E.I.T.) until registration. For more information visit E.G.B.C. (http://www.egbc.org)

Academic Staff

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Professor J. G. Currie, B.A.Sc. (Br.Col), M.A.Sc. (W.Ont), Ph.D. (Dalhousie), P.Eng.
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