

## **Pre-Engineering at Columbia College: Transfer to UBC & UVIC**

(Updated January 21, 2020)

**UBC: CC students seeking admission to Engineering at UBC are advised to select from the following courses. Students must complete a minimum of 27 (UBC) transferable credits to gain admission to 2<sup>nd</sup> year Engineering at UBC. The following courses satisfy the Foundation Year for Engineering:**

### CC Courses

ENGL 100 or 101  
MATH 113&114  
CHEM 121&123

APSC 151  
PHYS 130&120 (together)  
PHYS 118  
MATH 252  
APSC 160  
ENGL Lit course or other Arts course

### UBC Equivalent Courses

ENGL 112(3)  
MATH 100(3)&101(3)  
CC's 121&123&APSC151 **together**  
exempt UBC's Chem 154(3),  
APSC 100(3), & APSC 101(3)  
see above re: exemption  
PHYS 157(3) & 118(3)\*/119(1)\*  
PHYS 170(3)  
MATH 152(3)  
APSC 160(3)  
Complementary Studies course (3)

\* UBC's PHYS 118 & 119 can substitute for their PHYS 158 & 159

### **Second year courses that may be required, depending on specialization:**

MATH 206 (Civil/Geological/Mining)	Exempts STAT 251
MATH 225 (Computer)	MATH 220
PHYS 200 (Engineering Physics)	PHYS 205

### **Note 1:**

- an English literature course (108, 110, 121, or 131), along with Engl 100 or 101, will satisfy the English Language Admission Standard (ELAS), if completed by December. The ELAS Deadline is Feb 15<sup>th</sup>, so taking a Literature course in Winter semester (Jan-Apr) would be too late. Students who do not complete a Literature course by December can satisfy ELAS with Ielts or Toefl instead. See more ways to satisfy ELAS by going to:  
<https://you.ubc.ca/applying-ubc/requirements/english-language-competency-ok/>

### **Note 2:**

- Some Mechanical Engineering 2<sup>nd</sup> year courses at UBC have the following prerequisites: Engl 100 or 101, Math 113/114/252, Phys 130/120 & Phys 118. These courses must be completed by April in order to be eligible for 2<sup>nd</sup> year Mechanical Engineering.
- Other Engineering specializations starting at 2<sup>nd</sup> year also have specific prerequisites (to be done by April); check the UBC Engineering website for details.

See **UBCO & UVIC** (on reverse)

## UBCO (UBC's Okanagan Campus): Applied Sciences/Engineering

### UBCO Engineering One Curriculum

Apsc 169 Fundamentals of Sustainable Engineering Design  
Apsc 171  
Apsc 172  
Apsc 173  
Apsc 176  
Apsc 177  
Apsc 178  
Apsc 179  
Apsc 180  
Apsc 181  
Apsc 182  
Apsc 183

### Columbia College Equivalent

No equivalent  
Apsc 151  
Math 113  
Math 114  
Engl 100 or 101  
Apsc 160  
Physics 120  
Math 252  
Physics 118  
Physics 110  
Chemistry 121  
Chemistry 123

UBCO (in Kelowna) offers Civil, Electrical, and Mechanical Engineering (September entry). CC offers 11 of the 12 required 1<sup>st</sup> year courses. CC students need to complete at least 9 of the 11 courses above to gain 2<sup>nd</sup> year standing. Remaining courses will need to be completed at UBCO.

## University of Victoria (UVIC): Engineering

UVIC: CC students seeking admission to Engineering at UVIC are advised to take the following core courses and complementary studies courses:

### CC Courses

MATH 113&114  
MATH 252  
ENGL 100 or 101  
PHYS 110&130  
PHYS 118  
CHEM 121  
APSC 160  
Math 213  
APSC 151  
CSCI 225 (prereqs: CSCI 120 & 125)

### UVIC Equivalent Courses

MATH 100&101  
MATH 110  
ENGL 135  
PHYS 110&111  
ENGR 141  
CHEM 101 → sub CHEM 150  
CSC 111  
Math 200  
Mech 200  
CSC 115 → sub for CSC 116

One **Complementary Studies (CS)** Course (3cr): UVIC Engineering has a list of courses which have been given CS status over the last 5 years. Students are **required to check in advance with a program advisor in the UVIC BEng office to ensure that the course they wish to take at CC (or at UVIC) qualifies as a CS course.** Some of the courses CC offers that transfer to UVIC as CS approved courses are **Busn 272, Engl 210, 215, 230, Phil 101/102 (together), 113, Psci 200, 202, 210, 240, and Soci 110.** Additional courses may be granted CS status, but **approval must be obtained in advance** for such CS courses.

Note: Students must take Engr 110, 120, & 130 at UVIC.