

This handout is provided for reference only. It is the student's responsibility to consult the official Academic Calendars and meet with an Educational Advisor at each transfer institution to ensure that all program and admission requirements have been met.

Kwantlen Polytechnic University

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COMMON FIRST YEAR ENGINEERING COURSES

kwantlen.ca/advising

	UBC	Credits	UVIC	Units	SFU	Credits	KPU- Physics	KPU - Math
MATH 1120	Y	3	Y	1.5	Y	3	Y	Y
MATH 1220	Y	3	Y	1.5	Y	3	Y	Y
PHYS 1120	Y	3	Y	1.5	Y	3	Y	Y
PHYS 1220	Y	3	Y	1.5	Y	3	Y	Y
CHEM 1110	Y (CHEM 1110 & 1210 or CHEM 1154)	3	Y (CHEM 1110 or CHEM 1154)	1.5	Y (CHEM 1110 or CHEM 1154)	4	Y	Y
CHEM 1154								
CHEM 1210	Y (See note 1)	3	-		-		Y	Y
MATH 2232	Y (MATH 1152 or MATH 2232)	3	Y (MATH 1152 or MATH 2232)	1.5	Y (MATH 1152 or MATH 2232) See note 2	3	(can use as elective)	Y
MATH 1152							(can use as elective)	(can use as elective)
ENGL 1100	Y	3	Y	1.5	Y (can use as an elective)	3	Y	Y
CPSC 1103	Y/N (See note 3)	(3)	Y	1.5	Y	3	(can use as elective)	Y
PHYS 1170	Y	3	-		-		(can use as elective)	-
Complementary Studies Elective*	Y	3	Y	1.5	Y	3	Y	Y
APSC 1151	Y	3	-		Y (See note 4)	1	(can use as elective)	(can use as elective)
CMNS 1110	-	-	Y	1.5	-		(can use as elective)	(can use as elective)
CPSC 1204	-	-	Y	1.5	-		(can use as elective)	Y
ECON 1150	(can use as complementary studies elective)	3	-		Y	3	(can use as elective)	(can use as elective)
Transfer credit needed:	27 UBC credits		12 UVIC units		24 SFU credits			

Highlighted rows = Courses that can be used towards all programs

Notes:

- 1 – Students transferring to UBC Engineering may choose to take either: CHEM 1110 & 1210 or CHEM 1154. They must transfer at least 27 credits of UBC's first year program in order to be admitted to second year engineering.
- 2 – MATH 1152 is preferred by SFU, but MATH 2232 may be taken and substituted.
- 3 – CPSC 1103 is a required course in the First Year Engineering Certificate that offers guaranteed admission to UBC but it is not included on the UBC Engineering University Transfer pathway list. However students who take CPSC 1103 at KPU will be granted 3 credits of unassigned transfer credit: CPSC 1st (3)
- 4 – APSC 1151 transfers to SFU as a required one credit course, rather than 3 credits. Students may choose to wait and take it at SFU. This course is not required in the Mechatronics program.

* **Complementary Studies Elective** – In accordance with the criteria of the Canadian Engineering Accreditation Board (CEAB), a complementary studies elective course must deal with **central issues, methodologies and thought processes of the humanities and social sciences**. Therefore, complementary studies courses are most often courses offered within the Faculty of Arts. Language courses are permitted as long as they do not primarily address language skills. Please confirm with your transfer institution whether a course may be used towards the complementary studies elective.

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For more information about the Engineering profession and how to become an engineer in British Columbia, please refer to the Professional Engineers and Geoscientists of BC website: www.apeg.bc.ca

TRANSFER REQUIREMENTS

	Maximum time frame to take transfer courses at KPU	Minimum transfer credits required	KPU credits to complete	Minimum GPA Required	Semester can apply to
UBC – First-Year Certificate	8 months	Completion of certificate courses	Fall: 21 cr Spring: 19 cr Total: 40 credits	2.8 GPA	Fall
UBC – University Transfer	up to 2 years	27 UBC credits	30 – 37 credits	Approx. 3.3 GPA (varies from year to year, depending on applicants)	Fall
UVIC – University Transfer	up to 2 years	12 UVIC units	27 – 33 credits	Mechanical or Civil: B average Biomedical: B- average Electrical, Computer or Software: C+ average	Fall; can apply to Computer Science in other semesters, take whatever classes are available, and then apply to transfer to Engineering at the first available Fall term
SFU – University Transfer	Currently no time limit	24 SFU credits	30 – 36 credits	“Competitive overall average”	Any semester, but the following is recommended: Mechatronics – Summer or Fall Engineering Science - Fall

WHICH PROGRAM SHOULD I CHOOSE?

		Pros	Cons
I am only interested in transferring to UBC Engineering	Get admitted to First Year Engineering Certificate	<ul style="list-style-type: none"> Reserved seat in all KPU classes Guaranteed admission to UBC engineering (if all courses are taken within 8 months, and minimum 2.8 GPA achieved) 	<ul style="list-style-type: none"> Heavy workload Must attend full-time Must complete within 8 months
	Try to register for all first-year Engineering Certificate courses	<ul style="list-style-type: none"> Guaranteed admission to UBC engineering (if all courses are taken within 8 months, and minimum 2.8 GPA achieved) 	<ul style="list-style-type: none"> No guarantee of having space in all courses Heavy course load Must complete within 8 months
	Follow UBC Engineering transfer plan	<ul style="list-style-type: none"> Lighter course load Higher likelihood of getting courses Can complete over two years 	<ul style="list-style-type: none"> Higher GPA required No guaranteed admission to UBC Courses available at KPU on a first-come, first-served basis
I am open to transferring into other engineering programs	Follow Common First Year Engineering courses plan	<ul style="list-style-type: none"> Can complete over two years Keep options open 	<ul style="list-style-type: none"> No guaranteed admission Courses available at KPU on a first-come, first-served basis
	UVIC Engineering Transfer plan	<ul style="list-style-type: none"> Lighter course load than First-Year Engineering Certificate 	
	SFU Engineering Transfer plan		

Engineering Streams	Post-Secondary Institution	Engineering Streams	Post-Secondary Institution
Biomedical Engineering	UBC, UVIC, SFU	Geological Engineering	UBC
Chemical and Biological Engineering	UBC	Integrated Engineering	UBC
Civil Engineering	UBC, UBC-O, UVIC	Materials Engineering	UBC
Computer Engineering	UBC, UVIC, SFU	Mechanical Engineering	UBC, UBC-O, UVIC
Computer Science Engineering	UVIC	Mechatronics Systems	SFU
Electrical Engineering	UBC, UBC-O, UVIC	Materials Engineering	UBC
Electronics Engineering	SFU	Mining Engineering	UBC
Engineering Physics	UBC, SFU	Software Engineering	UVIC
Environmental Engineering	UNBC (joint offering with UBC)	Systems Engineering	SFU

