

This checklist is provided for reference only. It is the student's responsibility to consult the official SFU Academic Calendar and speak with a SFU representative to ensure that all program and admission requirements have been met.

Kwantlen Polytechnic University

604.599.2000

For more information regarding SFU's engineering programs, visit:

kwantlen.ca/advising

Engineering Science | Burnaby Campus: www.sfu.ca/engineering

Mechatronics Systems Engineering | Surrey Campus: www.sfu.ca/mechatronics

KPU students who wish to study on a part-time basis, or who were not admitted to the Engineering Certificate full-time program and wish to apply to SFU's engineering program may complete some first-year courses at KPU. Students following this route will have access to KPU courses on a first-come, first-served basis, and course registration is not guaranteed.

Transfer from KPU is not automatic. Students intending to transfer to SFU must still apply formally for admission and meet SFU's admission requirements. Students may apply to begin at SFU in any semester, but the recommended semester is Summer or Fall for Mechatronics Systems Engineering and Fall for Engineering Science. **Students must have at least 24 transferrable credits with a competitive overall average.** Search "SFU Admission Averages" on the internet for current information.

Further information regarding applying and transfer to SFU Engineering may be found at:

http://www.sfu.ca/engineering/undergraduate_students/admissions/college_transfer.html

KPU ADMISSION REQUIREMENTS

KPU's Undergraduate English Proficiency Requirement applies to any students wishing to take engineering-related undergraduate level courses. Visit www.kpu.ca/calendar/2015-16/ar/englishproficiency.html for further information.

Students wishing to take first year courses without having to undertake any upgrading must have:

- Chemistry 12 (with a C+ or better)
- Pre-calculus Math 12 (with a B or better)
- English 12 (with a B or better)
- Physics 12 (with a C- or better)

Possible course plan for SFU Engineering Transfer students who meet all course prerequisites (the order of some courses may be changed and the number of semesters can be increased):

Fall Semester	Spring Semester
MATH 1120 – Differential Calculus (Calculus I)	MATH 1220 – Integral Calculus (Calculus II)
PHYS 1120 – Physics for Physical and Applied Sciences I	MATH 1152 – Matrix Algebra for Engineers (or MATH 2232) ⁶
ECON 1150 – Principles of Microeconomics	PHYS 1220 – Physics for Physical and Applied Sciences II
CHEM 1110 – The Structure of Matter (or CHEM 1154) ⁵	Complementary Studies Elective ²
APSC 1151 – Introduction to Engineering Graphics ¹	CPSC 1103 ³ – Introduction to Computer Programming I

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

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Program Notes:

¹ APSC 1151 transfers to SFU as a required one credit course, rather than 3 credits. Student may opt to wait and take it at SFU. This course is not required in the Mechatronics program.

² Complementary Studies electives may vary depending upon the engineering stream you pursue. Please visit the following webpages or speak with a SFU advisor to confirm which courses can be used towards this requirement:

http://www.sfu.ca/engineering/undergraduate_students/academic-programs/general-requirements/electives.html

http://www.sfu.ca/engineering/undergraduate_students/academic-programs/general-requirements/science-electives.html

³ CPSC course must be taught in C or C++ and may require an approved waiver request once at SFU to be approved if the courses doesn't specifically transfer as the required course for your program.

⁴ For transfer information please refer to the BC Transfer Guide website: www.bctransferguide.ca.

⁵ CHEM 1154 is accepted for both Mechatronics (Surrey) and Engineering Science (Burnaby). A substitution request will need to be made after transfer.

⁶ MATH 2232 (which transfers as MATH 240) is accepted, although MATH 1152 is preferred.

Some courses included in SFU's Engineering programs that can be taken at KPU:		KPU Course Equivalencies (according to the BC Transfer Guide ⁴)	High School & KPU Prerequisites
Chemistry (4 credits)	CHEM 121	CHEM 1110 (CHEM 1154 may be taken)⁵	Chemistry 12 (C+) & Pre-Calculus 12 (C)
Mathematics (9 credits)	MATH 151	MATH 1120	Pre-Calculus 12 (B) or MATH 1112
	MATH 152	MATH 1220	MATH 1120 (C)
	MATH 232	MATH 1152 (MATH 2232 may be taken)⁶	MATH 1120 (C)
Physics (6 credits)	PHYS 120	PHYS 1120	Physics 12 (C) & Pre-Calculus 12 (C+)/ B recommended; MATH 1120 or 1130 is a co-requisite
	PHYS 121	PHYS 1220	PHYS 1120 (C); MATH 1220 is a co-requisite
Complementary Studies Elective (3 credits)			
Engineering Science (1 credit)	ENSC 204 (not required for Mechatronics)	APSC 1151	Pre-Calculus 12 (C)
Economics (3 credits)	ECON 103	ECON 1150	
Computing Science (3 credits)	CMPT 128 (CMPT 130 - Mechatronics)	CPSC 1103²	Pre-Calculus 12 (C+)
Total: 29 credits			
Additional courses that can be taken at KPU:			
Mathematics (6 credits)	MATH 251	MATH 2821	MATH 1220 and (MATH 2721 or MATH 1152)
	MATH 310	MATH 3421	MATH 1220 and (MATH 2232 or MATH 1152)
Total: 6 credits			