

ASSOCIATE OF SCIENCE DEGREE FRAMEWORK

Description

The Associate of Science degree consists of two years of university course work where students are able to complete their lower-level requirements for a Bachelor of Science degree if they plan effectively. According to the BC Transfer Guide, Universities will guarantee 60 transfer credits to holders of an associate degree, even if all the courses taken towards the degree do not transfer individually to that institution. For more information see www.bctransferguide.ca (<https://www.bctransferguide.ca>)

KPU currently offers two pathways for an Associate of Science Degree:

1. Associate of Science in General Science
2. Associate of Science in Mathematics

Students are responsible for ensuring their courses are granted transfer credit at SFU or UBC or UNBC or UVic by checking the online transfer guide from the BC Council on Admission and Transfer at www.bctransferguide.ca (<https://www.bctransferguide.ca>)

Requirements

Admission Requirements

Students pursuing an Associate of Science Degree must be admitted to the Faculty of Science & Horticulture (<https://calendar.kpu.ca/programs-az/science-horticulture/admission-requirements/>).

Curricular Requirements

Students are required to complete 60 semester credit hours of first-year and second-year courses. A minimum overall GPA of 2.0 is required, with a minimum grade of D in each course counting towards the Associate of Science Degree.

The Associate of Science Degree follows the standards published by the British Columbia Council on Admissions & Transfer (BCCAT) bctransferguide.ca/associate/requirements (<https://www.bctransferguide.ca/associate/requirements/>) Accordingly, all courses used as part of the degree must be transferrable to one of the following BC universities:

- Simon Fraser University (SFU)
- University of British Columbia (Vancouver or Okanagan Campuses) (UBC)
- University of Northern British Columbia (UNBC)
- University of Victoria (UVic)

Specific Requirements

Code	Title	Credits
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English Requirements

ENGL 1100	Introduction to University Writing	3
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Select one additional first year ENGL course

Math Requirements¹

Select six credits of university level mathematics, which shall include at least three credits in Calculus.		6
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First Year Science Requirements

Select six science courses from the following (at least one must be a lab science course):

ASTR 1120	Introduction to Astrophysics
ASTR 2101	
ASTR 2102	
BIOL 1110	Introductory Biology I
BIOL 1210	Introductory Biology II
CHEM 1105	Introductory Chemistry ²
CHEM 1110	The Structure of Matter
CHEM 1210	Chemical Energetics and Dynamics
CPSC 1100	Introduction to Computer Literacy
CPSC 1103	Principles of Program Structure and Design I
CPSC 1204	Principles of Program Structure and Design II
CPSC 1250	
GEOG 1110	Atmospheric Science
GEOG 1120	Earth Science
MATH 1112	Pre-Calculus ²
MATH 1115	Statistics I
MATH 1152	Matrix Algebra for Engineers (if not already counted)
PHYS 1100	Introductory Physics ²
PHYS 1101	Physics for Life Sciences I
	or PHYS 112 Physics for Physical and Applied Sciences I
PHYS 1170	Mechanics I
PHYS 1102	Physics for Life Sciences II
	or PHYS 122 Physics for Physical and Applied Sciences II

Second Year Science Requirements

Select six science courses taken in a minimum of two different subject areas from among the following:

BIOL 2320	Genetics
BIOL 2321	Cell Biology
BIOL 2322	Ecology
BIOL 2330	Microbiology
BIOL 2421	Cellular Biochemistry
CHEM 2311	Physical Chemistry for Life Sciences
	or CHEM 331 Physical Chemistry
CHEM 2315	Analytical Chemistry
CHEM 2320	Organic Chemistry I
CHEM 2420	Organic Chemistry II
CPSC 2302	Data Structures and Algorithms
CPSC 2405	
ENVI 2305	Environmental Toxicology
GEOG 2310	Climatology
GEOG 2320	Geomorphology
GEOG 2390	Quantitative Methods in Geography
GEOG 2400	Introduction to GIS
MATH 2232	Linear Algebra
MATH 2315	Probability and Statistics
MATH 2321	Multivariate Calculus (Calculus III)
	or MATH 282 Multivariate and Vector Calculus
MATH 2331	Introduction to Analysis
MATH 2335	Statistics for Life Sciences
	or MATH 234 Introduction to Statistics for Business

MATH 2410	Discrete Mathematics
MATH 3322	Vector Calculus (Calculus IV)
MATH 3421	Ordinary Differential Equations
PHYS 2010	Modern Physics
PHYS 2030	Classical Mechanics
PHYS 2040	Thermal Physics
PHYS 2330	Intermediate Mechanics
PHYS 2420	Intermediate Electricity and Magnetism

Additional Courses Requirements

Select two courses in Arts³, not counting English (ENGL)

Select two additional two courses that are designated as university transferable

- ¹ Most Science degrees require both Calculus I and Calculus II. Institutions have the discretion to set higher standards, including not recognizing MATH 1112.
- ² Institutions have the discretion to not recognize CHEM 1105, MATH 1112 or PHYS 1100.
- ³ Any Arts subject area not noted in the science categories above, and includes all geography courses not specified in the science categories above.

Students lacking the appropriate prerequisites will likely require more than two years to complete the Associate of Science. Since the Associate of Science represents completion of one half of a Bachelor of Science degree, as long as appropriate courses are completed at KPU, students should ideally be able to complete their Bachelor of Science in a further two years at the receiving University.

Credential Awarded

Upon successful completion of this program, students are eligible to receive an **Associate of Science degree** in their chosen subject area.