

**ASSOCIATE of SCIENCE DEGREE in BIOLOGY**  
(ASc - Biology)

*The Associate Degree was created in 1991 in recognition of full completion of the first two years of a Bachelor degree in either Arts or Science. Initially intended as an exit credential for those deciding not to further their education beyond that point, it has taken on a new role for academic transfer to a recognized degree-granting institution. An Associate Degree will guarantee transfer of 60 receiving institution transfer credits, but still requires the make-up of any missing core courses at the receiving institution in their first two years. All courses counting must have transfer credit to at least one of UBC, SFU, UVIC or UNBC. In effect, students receive transfer credit for every course completed within the Associate Degree even if any particular course does not have course-to-course transfer equivalency at that receiving institution.*

**English**

Two ENGL 1100 or higher level courses

**First Year Mathematics**

- a) MATH 1130 and MATH 1230; or
- b) MATH 1120 and MATH 1220

*Note: MATH 1130 and MATH 1230 are suggested*

**First Year Science**

*Note: plan ahead for second year prerequisites*

BIOL 1110 and BIOL 1210  
CHEM 1110 and CHEM 1210  
PHYS 1101 (or 1120) and PHYS 1220

Notes:

*UBC requires PHYS 1101 (or 1120) plus one other science chosen from:*

*GEOG 1110, 1120  
GEOL 1210  
PHYS 1220*

*UNBC: take GEOG 1110 and GEOG 1120 (count them as two "other" courses)*

**Second Year Science**

BIOL 2321 and BIOL 2421  
BIOL 2320 and BIOL 2322  
CHEM 2320 and CHEM 2420

Notes:

*UBC Biochemistry; substitute CHEM 2310 and CHEM 2410\* for BIOL 2320 and BIOL 2322*

*\* ask instructor regarding availability*

*SFU Environmental Toxicology; substitute BIOL 2322 and BIOL 2421 with MATH 2335 and ENVI 2305*

**Second Year Mathematics**

*UBC Biochemistry requires MATH 2321\*  
SFU and UVIC require MATH 2335\*  
\* counts as one "other" course (but not for SFU Environmental Toxicology)*

**Other Courses**

*Any four courses, at least two chosen from:  
ANTH, CRIM, ECON, FINA, FREN, GEOG (not those listed under science), GERM, HIST, JAPN, LING, MAND, MUSI, PHIL, POLI, PSYC, SOCI or SPAN*

Notes:

*All four must have transfer credit status  
SFU Biology majors require no "other" courses;  
SFU Environmental Toxicology requires one.  
UNBC requires GEOG 2320 (plus GEOG 1110 and GEOG 1120) only*

**Missing make-ups outside the Associate Degree**

*UBC Biology majors have some second year courses with no match at Kwantlen. Taking BIOL 2320 and BIOL 2322, however, fulfills UBC requirements for BIOL 334 and 302 (respectively), and provides 2nd Year transfer credit*

*UNBC has some second year courses not matched*

*at Kwantlen. Taking BIOL 2321 and BIOL 2421 provides transfer credit for UNBC BIOL 311 and CHEM 204*

*CHEM 1105, MATH 1112 or PHYS 1100 may be counted within an Associate of Science under very limited conditions - generally it is best to confirm this in advance with the university you plan to attend.*

**Transfer status may vary from institution to institution. Please be sure to confirm the transfer status at each university or other institution you are considering for degree completion.**

An average overall grade of C (cumulative GPA of 2.0 or its equivalent), calculated on all courses passed and counting towards the Associate Degree, must be achieved.

**Remember, it is important to verify your academic program with an Educational Advisor.**

