

MATHEMATICS

Last record of FPM review/updating: 2012

	Mathematics
Simon Fraser University	No sign-on recorded, no FPM information on website
Thompson Rivers University	No sign-on recorded, no FPM information on website
UBC Vancouver	No sign-on recorded, no FPM information on website
UBC Okanagan	No sign-on recorded, no FPM information on website
University of the Fraser Valley	No sign-on recorded, no FPM information on website
University of Northern BC	No sign-on recorded, no FPM information on website
University of Victoria	No sign-on recorded, no FPM information on website
Number of recorded sign-ons	See note
Number of institutions signed on and with website information	See note
Number of institutions with website information but no recorded sign-on	See note

Source: BCCAT records

The Mathematics FPM agreement on the BC Transfer Guide website (<https://www.bctransferguide.ca/fpm/math>) lists the “core and additional courses” at receiving institutions (UBC Vancouver, UBC Okanagan, SFU, UVic, TWU, TRU, UFV, and UNBC) and core courses at institutions offering Mathematics majors. No formal sign-ons were obtained.

Associate of Science (general or unspecified) degrees awarded, 2008/09 to 2016/17

	Associate of Science
Camosun College	381
Capilano University	53
College of the Rockies	10
Douglas College	352
Kwantlen Polytechnic University	120
Langara College	140
North Island College	15
Northern Lights College	n/a
Nicola Valley Institute of Technology	n/a
Okanagan College	190
Selkirk College	26
Thompson Rivers University/TRU-OL	57
University of the Fraser Valley	42
Vancouver Island University	12
TOTAL	1,398

Source: Central Data Warehouse, BC Ministry of Advanced Education

Associate of Science degrees awarded in Mathematics, 2008/09 to 2016/17

	Total degrees awarded	Institutions offering this credential
Associate of Science - Mathematics	31	Capilano (1) Kwantlen (28) Langara (2)

Source: Central Data Warehouse, BC Ministry of Advanced Education

Associate Degrees Awarded, Private Post-Secondary Institutions

	2016/17	2017/18
Associate of Arts	249	358
Associate of Science	61	49

Source: BC Ministry of Advanced Education

Recommendations from the BCCAT report “MOVING FORWARD WITH FLEXIBLE PRE-MAJORS IN THE BC TRANSFER SYSTEM”

- 1) An articulation committee could decide to terminate its FPM agreement. Given the lack of communication about these agreements, and the apparent lack of regular maintenance and revision of the agreements themselves, this action would likely not require a significant amount of effort for most articulation committees and participating institutions.

Sending or receiving institutions who wish to continue an FPM-like transfer agreement could negotiate individual agreements with other institutions to replace the transfer opportunities theoretically provided by the FPM.

Another option to replace a terminated FPM agreement would be to encourage institutions offering associate degree programs to develop majors or concentrations/specializations within those programs, to provide the same lower-level topic coverage as the FPMs provide. General Associate of Arts or Associate of Science programs may not provide sufficient coursework in a specific Arts or Science discipline for a student to easily move into upper-level studies in that discipline.

- 2) An articulation committee could decide to continue its FPM agreement. This decision would require several other actions:
 - a. A commitment by the articulation committee to review the content and structure of the FPM at least once a year, and to explicitly record the outcome of the review even if it does not result in changes or updates.
 - b. A commitment by the articulation committee to promptly communicate any changes in the FPM to BCCAT and to participating institutions.
 - c. A commitment by the articulation committee to address the structural and operational issues identified in some current FPM agreements (e.g. ensuring that formal sign-ons for all participating institutions are obtained and archived).
 - d. A commitment by the articulation committee and participating institutions to ensure that complete, accurate and easily accessible FPM information is on every participating institution’s website, and is also communicated to key parties (e.g. registrars, advisors, program/department heads and faculty members) in those institutions.
 - e. A commitment by the articulation committee and participating institutions to ensure that every course included in the FPM will transfer as equivalent to every other course in the same FPM category.

An FPM agreement could also continue with only the participation of those institutions that are explicitly committed to supporting the agreement, in the forms described in the points above. However, this might result in a reduced number of

sending or receiving options for students, while still requiring the articulation committee and participating institutions to continue the work of maintaining the FPM agreement.

- 3) An articulation committee could focus on supporting system-wide methods to continue the benefits of FPMs (e.g. multi-institutional transferability into the third year of a degree program) without continuing the FPM agreement itself. The most obvious target of such a focus is associate degrees, since these credentials have a provincially mandated common curriculum, and students completing associate degree generally receive 60 transfer credits at receiving institutions. There may already be a considerable amount of similarity between the content of FPMs and the curriculum of associate degrees in FPM subjects. Encouraging the development of associate degrees, and supporting the continuance of existing ones, in disciplines with FPMs would allow articulation committees to encourage student retention and mobility in these disciplines without investing the ongoing effort required to maintain a functional FPM.