

ECONOMICS FLEXIBLE PRE-MAJOR

Implementation Phase II

Final Report

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On behalf of:

BC Economics Articulation Committee

*I would like to thank all of the current and former members of the BC Economics Articulation Committee (EAC) who have contributed to this project over the last few years. One was Bradley Krause, the lead contractor and author of the interim reports on the first three phases of the work, and without whom this final report would not have been possible. Another is Yolina Denchev, the current Chair of the EAC who, like me, has been closely involved in the project since its inception. Also I would like to thank the current and former staff of BCCAT who have invariably given timely, sound, and invaluable advice along the way; in particular, Jennifer Orum, Fiona McQuarrie and John FitzGibbon.

TABLE OF CONTENTS

Introduction.....	3
Background.....	3
Purpose of the FPM.....	4
Content of the Economics FPM.....	5
Student Advising Notes.....	9
Examples of Transfer Using the FPM.....	14
Signing Institutions.....	16
Implementation Issues.....	17
Updating, Maintenance, Review and Revision.....	18
Conclusion.....	19
Appendix A: Text of the Economics Flexible Pre-Major Agreement.....	21
Appendix B: Student Advising Notes.....	23
Table 1: Courses Accepted As Fulfilling the Principles of Microeconomics Requirement in the Economics Flexible Pre-Major	32
Table 2: Courses Accepted As Fulfilling the Principles of Macroeconomics Requirement in the Economics Flexible Pre-Major	33
Table 3: Courses Accepted As Fulfilling the Calculus I Requirement in the Economics Flexible Pre-Major	34
Table 4: Courses Accepted As Fulfilling the Statistics I Requirement in the Economics Flexible Pre-Major	35
Table 5: Courses Accepted As Fulfilling the Calculus II Requirement in the Economics Flexible Pre-Major	36
Table 6: Courses Accepted As Fulfilling the Post-Principles Courses Requirement in the Economics Flexible Pre-Major	37
Table 7: Grid of Courses at Non-Signing Insitutions. THESE COURSES AND INSTITUTIONS ARE NOT PART OF THIS FLEXIBLE PRE-MAJOR AGREEMENT.....	45

Introduction

This report represents the final phase of the Economics Flexible Pre-Major (FPM) project. The Economics FPM is a set of 100/200 level courses that cover lower-level requirements for a Bachelor of Arts (BA) degree with a Major in Economics. Completing the FPM requirements increases the chances of a student successfully transferring to another institution to complete a BA in Economics. The FPM model is promoted by the BC Council on Admissions and Transfer (BCCAT) as another means of aiding student transfer in a post-secondary system that encourages significant student mobility. The purpose of the FPM is to help the student choose lower level courses for the maximum amount of transfer credit to complete a degree in Economics.

Background

The idea of an FPM for Economics in BC was first raised at the April 2008 meeting of the Economics Articulation Committee (EAC).¹ At the EAC's April 2009 meeting, the Committee approved an application to BCCAT for Transfer Innovations (TI) funds to conduct an FPM Analysis project. Bradley Krause of Bradley Krause and Associates, also a former EAC chair, was the project coordinator and external contractor for the project.

The FPM Analysis project involved three questionnaires. These were sent in late 2009 and early 2010 to all institutions sending or receiving transferable economics courses. The specific aims of the questionnaires were:

- to obtain a description of existing lower-level degree requirements of all receiving institutions in BC that offer degrees with majors in Economics;
- to assess the capabilities of institutions sending lower-level economics transfer credit to deliver lower-level economics courses suitable for an FPM;
- to identify potential obstacles in the creation of an Economics FPM;
- to identify risks or other costs to sending and receiving institutions in adopting an Economics FPM;
- to assess the willingness of sending and receiving institutions to identify a common set of courses that might satisfy lower-level degree requirements at all receiving institutions that offer Majors in Economics;
- to develop preliminary recommendations regarding the possibility of an Economics FPM and the institutions that may be willing to participate in it;
- to identify courses that might constitute the Economics FPM; and,
- to explore potential processes or committee structures that might be able to design and implement an Economics FPM.

¹ <http://bccat.ca/pubs/Economics%20AC%20Minutes%202008.pdf>

Based on the results of the analysis, the EAC decided to apply for additional funds to further develop the analysis. The BCCAT Transfer and Admissions Committee (TAC) approved this application as an Analysis Phase II project, with the same project coordinator. In this phase of the project, Peter Wylie, as Chair of the Economics Articulation Committee, held face-to-face meetings with representatives of the larger sending and receiving programs, in order to define and obtain a sense of broad agreement on the content of a potential FPM for Economics.

The results of the Analysis Phase II project were reported at the 2011 EAC meeting.² At this time it was determined that an FPM could be feasible, and it was decided to apply for funding for an FPM Implementation project.³ The application for an FPM implementation project was approved, and Bradley Krause continued as project coordinator.

An interim Implementation report was presented at the 2012 EAC meeting.⁴ On the basis of this report, the EAC decided to continue with the process of FPM implementation. After the meeting, it was determined by BCCAT and Yolina Denchev, the new Chair of the Committee, that some loose ends existed; thus, an application for funding for an Implementation Project Phase II (Completion) was made and approved, with Peter Wylie as project coordinator and Yolina Denchev as the other team member. This team reported at the 2013 EAC meeting on the progress of this phase of the project.⁵ This report is the final report on the FPM.

Purpose of the FPM

Transfer between economics programs in BC post-secondary institutions has become more challenging in recent years, due to the increased number of institutions offering undergraduate degrees with a major in economics. There are four new and relatively new Bachelor of Arts degree programs with a major in Economics - at the University of BC-Okanagan, Thompson Rivers University, Vancouver Island University, and the University of the Fraser Valley - in addition to the longer-standing programs at the University of BC-Vancouver, Simon Fraser University, the University of Victoria, and the University of Northern BC. The degree-granting institutions tend to differentiate their degree content,

² This report is posted on the Economics Articulation Committee BCCAT webpage at <http://bccat.ca/pubs/EconomicsFPMAnalysisPhase2.pdf>

³ <http://bccat.ca/pubs/Economics%20AC%20Minutes%202011.pdf>

⁴ This report is posted on the Economics Articulation Committee BCCAT webpage at <http://bccat.ca/pubs/8.3.3%20Economics%20FPM%20Interim%20Report.pdf>

⁵ http://bccat.ca/pubs/Economics_2013_Minutes.pdf

with the result that sending institutions have created courses and curricula based on which institution the majority of their students intend to transfer to. For students readily accepted at that institution, easy transfer is not usually a problem. However, for other students there are several issues. Students often need to determine well in advance which institution they plan to attend; students who are denied entrance at one institution may need to take additional courses to enter another; and students unable to gain admission to their originally intended institution may find that some of their courses do not transfer to other institutions, which will hold them back in their progress.

The main purpose of the Economics FPM is to designate a set of flexible 100/200 level courses accepted at all institutions granting Economics degrees as fulfilling some or all of their own lower level (first and second year) program requirements in Economics. With a FPM agreement in place, a student could potentially complete all lower level requirements at one institution and enter the third year of the Economics degree program at any of the institutions granting Economics degrees, without having to repeat courses or take additional courses. Transferring students may still have to complete any lower level requirements not covered by the FPM, but at the very least, students completing the FPM can be prepared to enter a degree program with an Economics major in the 3rd year of the program with reasonable prospects of academic success. The FPM courses cover the basic requirements of an Economics major but also allow the student to keep his or her transfer options open. While the required lower-level courses in the various economics programs are outlined on institutional websites, the FPM provides additional important information for students, and centralizes it all in one place.

The FPM is not designed to encroach on any institutions' autonomy. The basic idea is simply that a student should be able to take two years of courses without being disadvantaged by the decision to transfer into a degree-granting program rather than to enter a degree-granting program directly. All potential participants in the Economics FPM understand that the acceptability of the FPM content is carefully negotiated between all institutions. It is also important to note that the completion of the FPM is not a guarantee of admission to an institution, whether for an economics degree or for any other program.

Content of the Economics FPM

Economics is one of the most popular programs in North American post-secondary institutions, and the primary difficulty in designing an Economics FPM has been that the requirements for an Economics major differ substantially across BC institutions. Transfer patterns in economics in BC suggest that UBC-V and SFU are the primary destinations for transfer into degree-granting programs, and that there are also regionally-based transfer

patterns with TRU, UBC-O, UFV, UNBC, UVic and VIU as the destinations.⁶ UBC-V, SFU and UVic have around 85% of the students majoring in Economics in the province, so it is clear that any proposed FPM must be acceptable to UBC-V, SFU and UVic.⁷ Bachelor of Arts programs encompasses over 80% of all economics majors in BC⁸ so the FPM that has been designed and agreed upon is for only the Bachelor of Arts programs with majors in Economics.

Completion of the Economics FPM requires these courses:

- One Principles of Microeconomics course
- One Principles of Macroeconomics course
- Two Post-Principles Economics courses (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisites)
- One Calculus course (Calculus I or equivalent); or, for UBC, two Calculus courses (Calculus I and Calculus II, or equivalents)
- One Statistics course (Statistics I or equivalent), except at UBC and UVic

The Principles of Economics Component (six credits)

This is of course an essential element of the Economics FPM. Almost all of the post-secondary institutions in the province offer this two-course sequence, and the courses offered around the province are essentially the same. The courses that have been accepted as meeting this FPM requirement are listed in Tables 1 and 2 (pages 32 and 33).

The Calculus Component (three credits, or, for UBC, six credits)

Calculus is convenient shorthand for presenting many economics concepts, and hence calculus is a required course in all BA Major in Economics programs in BC. It is a pre-requisite course for second and third-year intermediate microeconomics and macroeconomics courses at most institutions. Economics is generally the only BA Major that requires calculus; the Economics FPM will make students aware of this fact, as most BA programs in the province do not require Principles of Mathematics 12 for admission. Hence BA students who want to major in economics often have to upgrade their math

⁶ Analysis Phase I report at <http://bccat.ca/pubs/EconomicsFPMAnalysis.pdf>, p. 16

⁷ Ibid

⁸ Ibid

skills, especially their calculus skills. The UBC BA Major in Economics programs (both at UBC-V and UBC-O) require six credits of calculus (Calculus I and II); all other programs in the province require three credits (Calculus I).

The tables showing the courses that have been accepted as meeting this FPM requirement is included in the FPM Agreement (Tables 3 and 5, pages 34 and 36). It should be noted that none of these courses are courses designed or offered by the Economics programs themselves. Many are Calculus for Economics and Business or for Social Sciences courses, designed and delivered by Mathematics departments for the most part, often in consultation with Economics departments. The transferability of the calculus courses that are housed in departments/programs outside Economics is in the jurisdiction of the BC Committee on the Undergraduate Program in Mathematics and Statistics (the Mathematics-Statistics Articulation Committee).

The Statistics Component (three required credits, except for UBC and UVic)

A course in statistical analysis of economic relationships (or econometrics) is a required course in all BA Major in Economics programs in BC. Basic statistics (Statistics I) is more often than not a pre-requisite for second- and third-year statistical analysis in economics courses. Economics is not the only BA Major that requires basic statistics, but the FPM will make students aware that statistics is a required course for Economics. The UBC BA Major in Economics programs (at both UBC-V and UBC-O) and the UVic BA Major in Economics program do not require any lower-level statistics courses; all other programs in the province require three credits (Statistics I). The UBC-V, UBC-O and UVic economics programs have their own basic statistics for economics courses; these have no pre-requisite statistics course.

The table of courses that have been accepted as meeting this FPM requirement is included in the FPM Agreement (Table 4, page 35). It should be noted that some of these statistics courses are Statistics for Business and Economics, while others are Statistics I for science students. As with calculus courses, the transferability of statistics courses that are housed in departments/programs outside Economics is in the jurisdiction of the BC Committee on the Undergraduate Program in Mathematics and Statistics (the Mathematics-Statistics Articulation Committee).

The Post-Principles Economics Component (six credits)

A major issue in designing the Economics FPM was whether the two-course sequence of Intermediate Microeconomics and Intermediate Macroeconomics, required in all BA Major

in Economics programs in the province, should be included as part of the FPM. These courses are offered at second-year level in some programs (e.g. TRU, UVic, UBC-O) but at third-year level in others (e.g. UBC-V, SFU). Moreover, UBC-V and SFU generally do not accept transferred courses as meeting their program requirements for these courses. Also, many sending institutions do not offer these courses, largely because the courses are not accepted for transfer credit at UBC and SFU.⁹

Because of these problems, it was decided not to include Intermediate Microeconomics and Intermediate Macroeconomics as an FPM component. However, there was then the issue of what additional second-year courses in economics, if any, should be included in the Economics FPM. Many programs do have requirements for 200-level economics courses in their BA Major in Economics programs, and most receiving institutions will grant an economics course assigned or unassigned 200-level transfer credit only if the course has a prerequisite course in the principles of economics. Therefore, it was decided to specify an FPM requirement for six credits of Post-Principles Economics courses (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are prerequisite(s)). Intermediate Microeconomics and Intermediate Macroeconomics courses can fulfill this FPM requirement. This requirement prepares students to enter the third year of economics majors with some exposure to the types of courses they will meet in their further studies, where the principles of economics are expanded and deepened in the study of their application in a variety of more specialized field courses.

The full list of courses meeting the Post-Principles FPM requirement is in Table 6 on pages 37 to 44. Many smaller institutions do not offer many Post-Principles courses due to small class sizes, staffing limitations, and budget constraints. These courses will sometimes transfer to other institutions as a specific course, but, because the courses are often at the 200-level in the sending institutions but at the 300-level in the BA Major in Economics degree-granting institutions, the courses will usually receive unassigned 200-level economics credit.

The Total Credits

The total credits in the Economics FPM are 18 credits, or, for UVic, 15 credits or 7.5 units. The 18 credits of the Economics FPM can be embedded in the requirements of an Associate of Arts degree, or within the general requirements of a BA program. Completion of the FPM does not of course guarantee acceptance into an economics degree program.

⁹ SFU has recently moved one of its required Intermediate Microeconomics courses to the second-year level (ECON 201), but will not accept assigned transfer credit for this course, only unassigned 200-level ECON credit.

Online and Distance Education FPM Course Options

Almost every sending and receiving institution in the BC system offers the Principles of Microeconomics, Principles of Macroeconomics, Calculus I and II and Statistics I courses. TRU-OL, Athabasca, and several other institutions offer online and/or distance education versions of these courses.

TRU-OL and Athabasca offer the following online or distance education Post-Principles courses:

TRU-OL

BUEC 2041 Managerial Economics

BBUS 4459 Urban and Regional Economics

Athabasca

ECON 380 Public Finance/Expenditure

ECON 385 Money, Banking and Canadian Financial Institutions

ECON 475 International Trade

ECON 476 International Finance¹⁰

If an institution does not offer any post-principles economics courses, students at that institution can fulfill that FPM requirement by taking these TRU or Athabasca courses, or by taking transferable courses at other institutions.

Student Advising Notes

Due to the diversity of BA Major in Economics programs in the province, the Economics FPM cannot hope to replicate all of the lower level requirements of every program. Hence there is a need for Student Advising Notes for each institution, pointing out the courses at that institution that meet the lower level requirements of its BA Major in Economics program, and highlighting the lower level requirements of these programs that are not

¹⁰ Athabasca also offers other courses in economics at the upper-level – ECON 321 (Health Care Economics), ECON 330 (Workers and the Economy), ECON 366 (Economic Development) and ECON 401 (The Changing Global Economy) - but none of these courses have a Principles of Economics prerequisite.

covered by the Economics FPM. The Student Advising Notes are in Appendix B on pages 23-31 of this report. They will also be posted on the BCCAT website.

The Student Advising Notes do not include the general BA degree requirements at each institution e.g. breadth and distribution requirements, English requirements, or lab science requirements. Web links in the Student Advising Notes indicate where this information can be found on each institution's department, faculty, and/or institutional web pages.

As indicated in these web links, there are also minimum grade requirements or minimum GPA requirements for continuance and/or graduation in several of these programs.

Specific Program Information for Degree-Granting Institutions Currently Participating in the FPM Agreement

Simon Fraser University

At SFU, in addition to the Economics FPM requirements, students must complete ECON 201 (Microeconomic Theory I: Competitive Behaviour), with a minimum grade of C- to be able to enter the Economics Major. They must also complete the course requirements of the FPM with a minimum C- grade in each course prior to program admission. Moreover, a minimum SFU GPA must be established in at least one term to be considered for admission to the BA Major in Economics. Students should be aware that they can meet this requirement by completing ECON 201 (with a minimum C- grade) after they transfer to SFU and in advance of their formal entry to the Economics Major (which in any case also requires a SFU GPA from at least one term of study at SFU).

The web links to the SFU program's detailed description in the Student Advising Notes will also make the student aware that SFU, in addition to the BA Major in Economics, also offers a BA Joint Major in Economics and Political Science, and a Joint Major in Business and Economics both with the BBA (Bachelor of Business Administration) and BA degrees. Honours options are offered in all programs, with the exception of the Joint Major in Economics and Political Science.

Thompson Rivers University

The lower-level requirements of the BA Major in Economics at TRU which are not covered by the FPM are ECON 2900 (Intermediate Microeconomics) and ECON 2950 (Intermediate Macroeconomics). Students should be aware that if possible they should complete courses which transfer as TRU ECON 2900 and ECON 2950 to fulfill the FPM requirement of the two Post-Principles Economics courses of the Flexible Pre-Major (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite), or should complete ECON 2900 and ECON 2950 in the third year of the Thompson Rivers

University program. Courses in the BC system which transfer as ECON 2900 and ECON 2950 at TRU are listed in the BC Transfer Guide.

The web links to the TRU program's detailed description in the Student Advising Notes will also make the student aware that TRU, in addition to the BA Major in Economics, also offers a BA Joint Major in Economics and Political Science, a BBA (Bachelor of Business Administration) Major in Economics, and Joint Majors in Economics and Mathematics in its BA and BSc degrees.

University of British Columbia-Vancouver

The specific lower level course requirement of the Economics Major at UBC-V that is not covered by the Economics FPM is one course that satisfies the writing component of the Faculty of Arts Writing and Research Requirement (ASTU 150, CAP, Arts One, ENGL 100 or equivalent). Students should be aware that they should complete a course which transfers as UBC-V ASTU 150, CAP, Arts One, ENGL 100 or equivalent before entering the major. Courses which transfer to UBC-V as these courses are listed in the BC Transfer Guide. International students applying to UBC may be required to take two English courses.

The web links to the UBC-V program's detailed description in the Student Advising Notes will also make the student aware that UBC-V, in addition to the BA Major in Economics, also offers BA Combined Majors in Economics and Political Science and Economics and Philosophy, both BA and BSc Combined Majors in Economics and Mathematics and Economics and Statistics, and a Bachelor of International Economics (BIE).¹¹ There is an honours option in the BA Major in Economics program.

University of British Columbia-Okanagan

The lower level requirements for the BA Major in Economics at UBC-O which are not covered by the FPM are ECON 204 (Intermediate Microeconomic Analysis) and ECON 205 (Intermediate Macroeconomic Analysis). Students should be aware that they should complete courses which transfer as UBC-O ECON 204 and ECON 205 as the two Post-Principles Economics courses of the FPM, or they can complete ECON 204 and ECON 205 in the third year of the UBC-O program. Courses in the BC system which transfer as ECON 204 and ECON 205 at UBC-O are listed in the BC Transfer Guide.

The web links to the UBC-O program's detailed description in the Student Advising Notes will also make the student aware that UBC-O, in addition to the BA Major in Economics, also offers a BSc Major in Economics and a BA Major in Philosophy, Politics and Economics.

¹¹ The BIE is a direct-entry program with extremely limited options for receiving transfer credit.

University of the Fraser Valley

The specific lower-level course requirements of the Economics Major at UFV that are not covered by the Economics FPM are BUS 143 (Accounting I), BUS 149 (Essentials of Finance), BUS 226/ECON 226 (Economics and Business Statistics), and any two of ECON 203 (Comparative Economic Systems), ECON 207 (Introduction to Strategic Thinking), and ECON 215 (Canadian Economic Issues). Students should be aware that they should complete courses which transfer as BUS 143 (Accounting I), BUS 149 (Essentials of Finance), BUS 226/ECON 226 (Economics and Business Statistics), and any two of ECON 203 (Comparative Economic Systems), ECON 207 (Introduction to Strategic Thinking), and ECON 215 (Canadian Economic Issues) before entering the major. Students can also take these courses in the third year of the UFV program. Transferable courses are listed in the BC Transfer Guide.

The BA Major in Economics is the only degree program in Economics offered by UFV.

University of Northern British Columbia

The specific lower-level course requirements of the Economics Major at UNBC that are not covered by the Economics FPM are MATH 150 (Finite Mathematics for Business and Economics) or MATH 220 (Linear Algebra); any one of COMM 100 (Introduction to Canadian Business), POLI 100 (Contemporary Political Issues), or INTS 100 (Canada and the World); ECON 202 (History of Economic Thought); and ECON 203 (Canadian Economic History). Students should be aware that they should complete courses which transfer as UNBC MATH 150 (Finite Mathematics for Business and Economics) or MATH 220 (Linear Algebra); any one of COMM 100 (Introduction to Canadian Business), POLI 100 (Contemporary Political Issues), or INTS 100 (Canada and the World); ECON 202 (History of Economic Thought); and ECON 203 (Canadian Economic History). Students can also take any of these courses in the third year of their Economics major program at UNBC. Transferable courses are listed in the BC Transfer Guide.

The web links to the UNBC program's detailed description in the Student Advising Notes will also make the student aware that UNBC, in addition to the BA Major in Economics, also offers BA Joint Major in Economics and Political Science and in Economics and International Studies, and a BSc with a Joint Major in Economics and Mathematics.

University of Victoria

The specific lower level course requirements of the Economics major at UVic that are not covered by the Economics FPM are the Academic Writing Requirement (AWR): ENGL 135, 146, 147 or ENGR 110; ECON 203 (Intermediate Microeconomics) and ECON 204

(Intermediate Macroeconomics); ECON 225 (Writing for Economists) or ENGR 240; a minimum grade of B+ in ENGL 135, 146 or 147; ECON 245 (Descriptive Statistics and Probability); ECON 246 (Statistical Inference); and one Social Science course outside of ECON (other than a course in statistics or quantitative methods or ES 312), or PHIL 220 or 223. Students should be aware that they can complete these requirements in the following ways;

- the Academic Writing Requirement (AWR) by taking a transferable course equivalent to ENGL 135, 146, 147 or ENGR 110. The AWR can also be fulfilled with a final grade of at least 86% (within three years immediately prior to admission) on the BC English 12 Provincial Examination or English 12 First Peoples Provincial Examination;
- ECON 203 and ECON 204 by completing courses transferable to these courses, or by completing ECON 203 and ECON 204 in the third year of the UVic program;
- ECON 225 by taking a course that transfers with a minimum grade of B+ in ENGL 135, 146 or 147, or by taking a course that transfers as ENGR 240;
- by completing ECON 225, 245 and 246 in either the summer term before the third year or in the third year of the University of Victoria program;
- by taking a course that transfers as a UVic Social Science course outside of ECON (other than a course in statistics or quantitative methods, or ES 312), or by taking a course that transfers as UVic PHIL 220 or 223.

Transferable courses are listed in the BC Transfer Guide.

The web links to the UVic program's detailed description in the Student Advising Notes will also make the student aware that UVic, in addition to the BA Major in Economics, also offers a BSc Major in Economics and a BSc Combined Major in Financial Mathematics and Economics. There are honours options in all programs except for the BSc Combined Major in Financial Mathematics and Economics. There is also a Business minor and a Finance option within the BA and BSc Majors and Honours programs in Economics.

Vancouver Island University

There are no lower-level requirements for the BA Major in Economics at VIU that are outside of the Economics FPM.

The BA Major in Economics is the only economics degree program offered at VIU.

Examples of Transfer Using the FPM

The following examples demonstrate how the Economics FPM will assist students and institutions.

Transferring to UBC-O from Selkirk College

The only required upper-level courses in the UBC-O BA Major in Economics program are ECON 327 and 328, both of which have Calculus I and II as prerequisite courses. Hence, completing the Economics FPM (in its UBC variant, with Calculus I and II) and transferring at the end of second year will allow a transfer student to take the ECON 327 and 328 courses in the 3rd year of the UBC-O program and be on track to complete all UBC-O BA Major in Economics degree requirements in four years. A student at Selkirk College completing the Economics FPM (in its UBC variant, including Calculus I and II) within the first 60 credits could take Selkirk's ECON 106, 107, MATH 104 or 100 and MATH 101, along with the one post-principles course offered at Selkirk, and perhaps a post-principles course from Athabasca or TRU-OL. They could also follow the Economics FPM within the General Associate of Arts degree or the Liberal Arts and Sciences Diploma at Selkirk, as many as of the UBC-O BA degree requirements can be covered within these programs before transfer.

Transferring to UBC-V from Langara College

The required upper-level courses in the UBC-V BA Major in Economics program are ECON 301, 302, 325 and 326, all of which have Calculus I and II as prerequisite courses, and ECON 490, which must be taken only in fourth year and has ECON 325 and 326 as prerequisites. 54 credits are required to enter the UBC-V program, and entry is also limited by a GPA requirement. A student at Langara College could complete the Economics FPM (in its UBC variant, with Calculus I and II) among their first 60 credits by taking ECON 1220 and 1221, MATH 1174 or 1171, and MATH 1274 or 1271, along with two post-principles courses offered at Langara. The student could also take the Economics FPM within the Associate of Arts (General) degree offered by Langara and cover many of the UBC-V BA degree requirements.

Transferring to UVic from Camosun College

The required upper-level courses in the UVic BA Major in Economics program are ECON 313 and 345 (or 365) all of which require Calculus I as a prerequisite. A student at Camosun could complete the Economics FPM (in its UVic variant, with Calculus I and no Statistics course) among their first 60 credits, taking ECON 103 and 104, and MATH 108 or 100, along with two post-principles courses offered at Camosun. The student could also take the Economics FPM within the Associate of Arts degree offered by Camosun and cover many of the UVic BA degree requirements.

Camosun also offers an Associate of Arts in Economics credential which is specifically tailored for students transferring to UVic or SFU to follow the BA Major in Economics. It includes not only the required Mathematics and Statistics courses for UVic and SFU, but also ECON 203 Intermediate Microeconomics and ECON 204 Intermediate Macroeconomics, both of which are required in the UVic BA Major in Economics.

Transferring to SFU from Douglas College

The required upper-level courses in the SFU BA Major in Economics program are ECON 302, 305, and BUEC 333, all of which have Calculus I as a prerequisite. An SFU GPA from at least one term of study is required to enter the SFU Economics program, along with a minimum GPA requirement. A student at Douglas College could complete the Economics FPM (in its SFU variant, with Calculus I and Statistics I) among their first 60 credits, taking ECON 1150 and 1250; MATH 1125 or 1120; and MATH 1160 or BUSN 2429, along with two Post-Principles courses offered at Douglas. They could also take the Economics FPM within the Associate of Arts degree offered by Douglas to cover many of the SFU BA degree requirements.

Douglas also offers the Associate of Arts (Specialty in Economics) degree which is designed for students transferring to SFU to follow the BA Major in Economics. Students can also transfer to other BA Majors in Economics in BC with this 60-credit Associate of Arts (Specialty in Economics) degree. Douglas College also has a Douglas/SFU Degree Partnership Program with dual admission for students to both SFU and Douglas. This allows students to take courses at Douglas as part of completing the BA Major in Economics degree at SFU.

Transferring to UNBC from Alexander College, Columbia College or Coquitlam College

The required upper-level courses in the UNBC BA Major in Economics are ECON 310, 311, and 312; ECON 310 and 312 have Calculus I as a prerequisite course. ECON 312 also has a Statistics I prerequisite. A student at Alexander College, Columbia College or Coquitlam College could complete the Economics FPM (in its UNBC variant, with Calculus I and Statistics I) among their first 60 credits, taking ECON 103 and 104, MATH 104 or 151, and COMM 291, along with two post-principles courses offered at Alexander; or ECON 103 and 105, MATH 111 or 113, and BUSN 291 or MATH 206, along with two post-principles courses offered at Columbia; or ECON 201 and 202, MATH 111 and 112, and STAT 101/270 or 290, along with two post-principles courses offered at Coquitlam. A student could also complete the Economics FPM within the 60-credits Associate of Arts degree offered by Alexander College, Columbia College or Coquitlam College to cover many of the UNBC BA degree requirements. Coquitlam College also offers a 60-credit Diploma in Arts (Economics) within which the Economics FPM might be completed.

The Economics FPM within the Associate of Arts Degree

BC is the only jurisdiction in Canada that offers the Associate of Arts degree.¹² It is offered by most of the 11 public colleges in the BC Transfer System, and by 4 of the 11 private institutions in the BC Transfer System (Alexander College, Columbia College, Coquitlam College and Corpus Christi College). Camosun College, Douglas College and Kwantlen Polytechnic University also offer the Associate of Arts (Economics) degree, with a specialization in economics, and Okanagan College offers the Associate of Arts degree with an Emphasis in Economics. The Economics FPM is compatible with all of these programs.

Signing Institutions

All eight BC institutions/campuses offering a BA Major in Economics have formally signed on to the Economics FPM Agreement, as have 14 other institutions. These institutions/campuses and their FPM courses are listed in the tables on pages 32-44. The evidence of formal agreement is the signed sign-off sheet returned to BCCAT. Of the 11 public universities in the BC Transfer System, nine have signed – all seven BA degree-granting universities plus Capilano University and Kwantlen Polytechnic University. Of the 11 public colleges in the BC Transfer System, seven have signed – Camosun College, College of the Rockies, Douglas College, Langara College, North Island College, Okanagan College, and Selkirk College. Five of the 11 private post-secondary institutions in the BC Transfer System have also signed – Alexander College, Columbia College, Coquitlam College, Corpus Christi College, and Quest University Canada.

The two public universities in the BC Transfer System that have not signed, Emily Carr University of Art + Design and Royal Roads University, are not relevant to the Economics FPM as neither institution offers undergraduate courses or programs in economics. The public colleges that have not signed – College of New Caledonia, Northern Lights College, Northwest Community College, Vancouver Community College, and Yukon College - mainly only offer the Principles of Economics courses¹³. None of the three Institutes in the system (British Columbia Institute of Technology, Nicola Valley Institute of Technology, and the Justice Institute of BC) have signed; JIBC offers no courses in economics, mathematics or statistics, NVIT only offers the Principles of Economics courses, and BCIT's Economics courses are part of a Bachelor of Business Administration degree, not a BA. BCIT is also not

¹² See Review of the BC Associate Degree: Final Report of the Associate Degree Review Steering Committee, BCCAT, Jan 31, 2013

¹³ For example, at Vancouver Community College, the Principles of Economics courses are specifically tailored for the hospitality industry specialization. VCC offers no calculus or statistics courses.

a sending institution in the BC Transfer System. Of the six private colleges and universities in BC and the six non-BC public institutions that have not signed, some have a curricular focus that is not relevant to the Economics FPM (e.g. Art Institute of Vancouver).

Table 7 on page 45 lists some of the non-signing institutions that offer courses which could be part of the FPM agreement in future. Additionally, since BCCAT has signed a Transfer Protocol with its Alberta counterpart, the Alberta Council on Admissions and Transfer, the Economics FPM could in future include post-secondary institutions in Alberta. The University of Alberta, University of Calgary, University of Lethbridge and Grant MacEwan University all offer BA programs with majors in Economics, and Mount Royal University offers a BA with a major in Policy Studies with economics as an important component.

Implementation Issues

The completion of this final report does not mean that the Economics FPM is in place. The final report first needs the approval of BCCAT, and then students must know of the existence of the Economics FPM. Information must be clear, easy to use, reliable and consistent.¹⁴ Information on the FPM will be posted on the BC Transfer Guide website, including tags on listings for courses that are part of the FPM.

Another important implementation issue is how the Economics FPM will be advertised by the participating institutions. The advising of students, both at their sending institution and at the one to which they are seeking to transfer, is critical.¹⁵ How to advertise the Economics FPM is up to the discretion of the individual institutions' economics departments or units. Sending programs should advise students how to complete the Economics FPM requirements before transferring to another institution. The Chair of economics departments or units at sending institutions could provide students with a letter saying that the student has completed the requirements for the Economics FPM, and that letter could be taken to any receiving institution. Institutional calendars and departmental/institutional websites at both receiving and sending institutions might also mention the Economics FPM. Academic departments often have difficulties in drawing the attention of senior administrative institutional staff to agreements such as FPMs; hence the Economics FPM information might best be posted and/or circulated by the departments themselves.

¹⁴ *Flexible Pre-Majors: Final Report of the Flexible Pre-Majors Working Group* (BCCAT, 2011), p. 9.

¹⁵ *Flexible Pre-Majors: Final Report of the Flexible Pre-Majors Working Group* (BCCAT, 2011), p. 9.

Students are the key group to communicate with regarding the Economics FPM¹⁶. Ideally departmental/program advisors and institutional advisors should know about the FPM, as should the Deans of the Faculties containing the economics departments and units. We presume that the responsibility for disseminating information about the Economics FPM will lie with the economics departments and units involved, and that information on the BC Transfer Guide will be updated when the relevant information is provided.

Updating, Maintenance, Review and Revision

The Economics FPM will require revision and review; it is an ongoing project. There must be an annual updating to the FPM to reflect any changes to the lower-level requirements in the BA Major in Economics degrees of the granting institutions, along with annual updating of the Student Advising Notes, the course equivalencies table, and the list of post-principles courses.

The Economics Articulation Committee established an Economics FPM Sub-Committee/Working Group at its meeting on April 28, 2014 at Thompson Rivers University. The Working Group or Sub-Committee will request course equivalencies and other updates from EAC institutional representatives prior to the annual meeting of the Committee. This group will also review any new applications for participation in the FPM. The group will bring a report to each EAC annual meeting outlining:

1. Any revisions to the Agreement, e.g. proposed new participating institutions or changes to the FPM structure and/or requirements;
2. Any updates to the lower-level requirements in the BA Major in Economics of the degree-granting institutions;
3. Any updates to the Student Advising Notes;
4. Any updates to the table of course equivalencies for the FPM; and,
5. Any updates to the Post-Principles courses list.

The Sub-Committee/Working Group will then propose motions at the annual meeting for voting on and approval of the proposed updates. The EAC Chair will forward the approved changes to BCCAT for posting on the BCCAT website and/or the BC Transfer Guide website.

This Sub-Committee/Working Group was formed at the 2014 EAC meeting with six members, including the current Chair of the EAC. At subsequent meetings there will be a

¹⁶ *Ibid*, p. 10.

permanent agenda item for the Sub-Committee/Working Group to propose any FPM-related revisions.

There must also be a regular review of the overall utility and performance of the Economics FPM, including the identification of any problems with it. We propose that this review be carried out every three years by the FPM Sub-Committee/Working Group. It will be important to track how many students and sending and receiving institutions are taking part in or otherwise benefiting from the FPM; this might be accomplished by reports from institutional representatives and/or a survey of institutional experiences. These would produce at least “guesstimates” of the number of students completing the FPM and/or using the FPM to transfer to other institutions.

Another important task of the Sub-Committee/Working Group would be to regularly review the course equivalency table and Post-Principles courses list, in combination with the information in the BC Transfer Guide, to identify and address anomalies or omissions, and to improve the coverage of the FPM over time and its consistency with the BC Transfer Guide.

Conclusion

What was the motivation of the Economics Articulation Committee in exploring and implementing the Economics FPM - that is, why did we do this and what were we intending to achieve? The original motivation was the proliferation of new degree programs with majors in Economics; the EAC felt it would be useful to see if there was enough commonality in these programs to help transferring students choose the appropriate courses in their first two years of study if they were thinking of completing a degree with a major in Economics. We wanted to compare the intermediate macroeconomics and macroeconomics courses to see at what level they were offered and what mathematics prerequisites they had, as it was already clear that the principles of economics courses, at either the 100 or 200 level, were all essentially the same. Also, we wanted to compare the mathematics and statistics requirements of the various programs. As we explored these issues, it became clear that there was substantial variation in levels and mathematics prerequisites of the intermediate micro and macroeconomic theory courses, but that all programs required essentially the same mathematics and statistics courses at the same levels. Thus it was not possible to include the intermediate micro and macroeconomics theory courses in the Economics FPM, except insofar as these courses can be used to meet the 6 credits of Post-Principles economics requirement of the FPM. It was possible to include the mathematics (calculus) and statistics courses in the FPM, with some provisos to fit SFU, UBC and UVic's requirements.

The exercise of agreeing on the core elements of the Economics FPM has been very useful to the EAC. The Course Grids of equivalences for courses in the Economics FPM is something that might point out inconsistencies and incomplete coverage in existing transfer agreements, which might bring more consistency and increased coverage in the future. The Student Advising notes for each of the eight BA Major in Economics programs in BC are a useful check of the similarities and differences between these various programs: something that is useful for the EAC to know. The list of Post-Principles courses offered in BC is also useful information for students and institutions to have in one place.

The total cost of the Economics FPM, in consultant fees, travel and other expenses, has been about \$15,000 in total for the Phase I and II Analysis projects, and \$13,000 in total for the Phase I and II Implementation projects. Not included in these costs, of course, is the opportunity (or implicit) cost of faculty and BCCAT staff members' time and energy. Do (or will) the benefits of the Economics FPM exceed the costs? Given that such a question is fundamental to the discipline of economics, the EAC will continue to have this foremost in its thoughts as the Economics FPM is carried forward over the next few years - and we might well come back to this question in the future during the ongoing evaluation of the FPM.

Appendix A

Economics (Bachelor of Arts) Flexible Pre-Major Agreement (2013)

1. The Flexible Pre-Major Agreement is intended to clarify and simplify transfer arrangements for students wishing to transfer between BC post-secondary institutions in order to take a Bachelor in Arts with a Major in Economics, typically after the second year of study. It was developed to address challenges students experience in transferring to different institutions after second year, specifically when they are forced to take additional first and second year courses in order to meet degree requirements, meet pre-requisites to take upper level courses, and/or register in the Major at the receiving institution.
2. Under this agreement, sending institutions may continue to offer distinctive courses appropriate to their individual programs without restricting student access to various degree completion options. Students will find it easier to plan their programs and select courses because the Pre-Major courses are clearly identified and their possibilities for transfer will be maximized because the Pre-Major is accepted by a number of participating institutions.
3. Students are advised that the Flexible Pre-Major does not guarantee acceptance into a BA Major in Economics program, as acceptance may depend on students obtaining a competitive GPA as specified by the receiving institution or on meeting other conditions as set by the receiving institution.
4. The Flexible Pre-Major does not excuse students from non-discipline specific requirements of BA programs at receiving institutions, or from lower-level requirements in the BA Major in Economics program at the receiving institution not covered by the Flexible Pre-Major. These must still be met prior to graduation with the Major, and students are encouraged to examine the total program requirements of receiving institutions prior to applying for transfer.
5. The Flexible Pre-Major transfer agreement supplements and does not supersede existing processes for establishing transfer credits. Where there is a conflict between the Flexible Pre-Major and the BC Transfer Guide, the latter takes precedence. Other non-program courses will be assessed for transferability on a course-by-course basis in accordance with the BC Transfer Guide.
6. Signing the agreement does not commit an institution to offering all the courses of the Economics Pre-Major, but for courses it does not offer, the institution will direct students to transferable and feasible alternatives available at other institutions.
7. A student completing the Flexible Pre-Major can be considered for admission to a BA Major in Economics program at the third-year level if progression requirements of that

level are met, and might expect to complete the degree in two additional years if all degree requirements are met. However, nothing in this Agreement overrides general requirements for admittance, progression and graduation from any institution.

8. A student who completes the requirements in every category identified in the Flexible Pre-Major will be deemed to have met the first and second year requirements of the Economics Flexible Pre-Major.

The Flexible Pre-Major in Economics requires:

- One course in Principles of Microeconomics;
- One course in Principles of Macroeconomics;
- Two Post-Principles Economics courses (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite);
- One Calculus course (Calculus I or equivalent) or, for UBC, two Calculus courses (Calculus I and II or equivalents);
- One Statistics course, except for UBC and UVic

Appendix B**Economics Flexible Pre-Major Agreement****Student Advising Notes (2013)**

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at Simon Fraser University are as follows.

Students must complete the following courses with a minimum C- grade in each course prior to program admission:

- ECON 103 Principles of Microeconomics
- ECON 105 Principles of Macroeconomics
- MATH 157 Calculus for the Social Sciences I
- ECON 201 Microeconomic Theory I: Competitive Behavior
- BUEC 232 Data and Decisions I
- One additional 200-level ECON or BUEC course

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- ECON 201 Microeconomic Theory I: Competitive Behavior, with a minimum C- grade

This course requirement can be met:

By completing ECON 201, with a minimum C- grade, as soon as possible after transfer to Simon Fraser University

For full details on all requirements for programs and options in Economics offered by Simon Fraser University see:

<http://www.sfu.ca/students/calendar/2014/spring/programs/economics/major/bachelor-of-arts.html> or <http://www.sfu.ca/economics/undergraduate/degrees-and-programs.html>

For full details on all requirements for the Bachelor of Arts degree from Simon Fraser University, see:

<http://www.sfu.ca/students/calendar/2014/spring/programs/economics/major/bachelor-of-arts.html>

Note: A minimum SFU GPA must be established in at least one term to be considered for admission to the BA Major in Economics at SFU, and a minimum Cumulative GPA must be achieved for continuation in and graduation with a BA Major in Economics.

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at Thompson Rivers University are:

- ECON 1900 Principles of Microeconomics
- ECON 1950 Principles of Macroeconomics
- MATH 1170 Calculus for Business and Economics or MATH 1140 Calculus I
- BUEC 2320 Statistics for Business and Economics I
- ECON 2900 Intermediate Microeconomics
- ECON 2950 Intermediate Macroeconomics

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- ECON 2900 Intermediate Microeconomics
- ECON 2950 Intermediate Macroeconomics

These course requirements can be met:

- By taking courses that transfer as TRU ECON 2900 and ECON 2950 as the two Post-Principles Economics courses of the Flexible Pre-Major (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite)
- By completing ECON 2900 and ECON 2950 in the third year of the Thompson Rivers University program

For full details on all requirements for programs and options in Economics offered by Thompson Rivers University, see:

<http://www.tru.ca/business/programs/economics/programs.html>

For full details on all requirements for the Bachelor of Arts degree from Thompson Rivers University, see: <http://www.tru.ca/calendar/current/index.htm>

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at the University of British Columbia, Okanagan Campus are:

- ECON 101 Principles of Microeconomics
- ECON 102 Principles of Macroeconomics
- MATH 116 Calculus I for Management and Economics or MATH 100 Differential Calculus with Applications to Physical Sciences and Engineering
- MATH 142 Calculus II for Management and Economics or MATH 101 Integral Calculus with Applications to Physical Sciences and Engineering
- ECON 204 Intermediate Microeconomic Analysis
- ECON 205 Intermediate Macroeconomic Analysis

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- ECON 204 Intermediate Microeconomic Analysis
- ECON 205 Intermediate Macroeconomic Analysis

These course requirements can be met:

- By taking courses that transfer as UBC-O ECON 204 and ECON 205 as the two Post-Principles Economics courses of the Flexible Pre-Major (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite)
- By completing ECON 204 and ECON 205 in the third year of the UBC Okanagan Campus program

For full details on all requirements for programs and options in Economics offered by University of British Columbia, Okanagan Campus, see:

<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,282,857,980> or <http://econ.ok.ubc.ca/undergrad/program.html>

For full details on all requirements for the Bachelor of Arts degree from University of British Columbia, Okanagan Campus, see:

<http://www.calendar.ubc.ca/okanagan/index.cfm?tree=18,282,857,1084>

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at the University of British Columbia, Vancouver Campus are:

- ECON 101 Principles of Microeconomics
- ECON 102 Principles of Macroeconomics
- MATH 104 Differential Calculus with Applications to Commerce and Social Sciences
- MATH 105 Integral Calculus with Applications to Commerce and Social Sciences
- Two additional 200-level or 300-level ECON courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite
- One course that satisfies the writing component of the Faculty of Arts Writing and Research Requirement (ASTU 150, CAD, Arts One, ENGL 100 or equivalent)

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- One course that satisfies the writing component of the Faculty of Arts Writing and Research Requirement (ASTU 150, CAP, Arts One, ENGL 100 or equivalent)

These course requirements can be met:

- By taking a course that transfers as UBC-V ASTU 150, CAP, Arts One, ENGL 100 or equivalent

For full details on all requirements for programs and options in Economics offered by University of British Columbia, Vancouver Campus, see:

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,304,0,0> or <http://www.economics.ubc.ca/undergraduate/programs/majorscombined-majors-program/majors-admission/>

For full details on all requirements for the Bachelor of Arts degree from University of British Columbia, Vancouver Campus, see:

<http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,197,282,55>

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at the University of the Fraser Valley are:

- ECON 100 Principles of Microeconomics
- ECON 101 Principles of Macroeconomics
- MATH 141 Calculus for Business or MATH 111 Calculus
- MATH 106 Statistics I
- BUS 143 Accounting I
- BUS 149 Essentials of Finance
- BUS 226/ECON 226 Economics and Business Statistics
- Any two of ECON 203 Comparative Economic Systems, ECON 207 Introduction to Strategic Thinking, and ECON 215 Canadian Economic Issues

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- BUS 143 Accounting I
- BUS 149 Essentials of Finance
- BUS 226/ECON 226 Economics and Business Statistics
- Any two of ECON 203 Comparative Economic Systems, ECON 207 Introduction to Strategic Thinking, and ECON 215 Canadian Economic Issues

These course requirements can be met:

- By taking courses that transfer as UFV BUS 143, BUS 149 and BUS 226/ECON 226
- By completing BUS 143, BUS 149 and BUS 226/ECON 226 in the third year of the University of the Fraser Valley program
- By taking courses that transfer as any two of UFV ECON 203 Comparative Economic Systems, ECON 207 Introduction to Strategic Thinking, and ECON 215 Canadian Economic Issues
- By completing any two of these courses in the third year of the University of the Fraser Valley program

For full details on all requirements for programs and options in Economics offered by University of the Fraser Valley, see: <http://www.ufv.ca/calendar/winter-summer-2014/ProgramsC-E/ECON MAJOR.htm> or <http://www.ufv.ca/economics/programs/economics-major/>

For full details on all requirements for the Bachelor of Arts degree from University of the Fraser Valley, see: <http://www.ufv.ca/calendar/Winter-Summer-2014/ProgramsA-B/ARTS BA.htm>

The disciplinary-specific lower level (years one and two) requirements of the BA Major in Economics at the University of Northern British Columbia are:

- ECON 100 Microeconomics
- ECON 101 Macroeconomics
- MATH 150 Finite Mathematics for Business and Economics or MATH 220 Linear Algebra
- MATH 152 Calculus for non-Majors or MATH 100 Calculus I
- COMM 100 Introduction to Canadian Business or POLI 100 Contemporary Political Issues or INTS 100 Canada and the World
- ECON 205 Statistics for the Social and Management Sciences
- ECON 202 History of Economic Thought
- ECON 203 Canadian Economic History

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- MATH 150 Finite Mathematics for Business and Economics or MATH 220 Linear Algebra
- COMM 100 Introduction to Canadian Business or POLI 100 Contemporary Political Issues or INTS 100 Canada and the World
- ECON 202 History of Economic Thought
- ECON 203 Canadian Economic History

These course requirements can be met:

- By taking courses that transfer as UNBC MATH 150 or 220, and COMM 100 or POLI 100 or INTS 100
- By taking courses that transfer as UNBC ECON 202 and 203 as one or both of the two Post-Principles Economics courses of the Flexible Pre-Major (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite)
- By taking ECON 202 and 203 in the third year of the University of Northern British Columbia program

For full details on all requirements for programs and options in Economics offered by the University of Northern British Columbia see:

<http://www.unbc.ca/calendar/undergraduate/economics> or

<http://www.unbc.ca/economics/undergraduate>

For full details on all requirements for the Bachelor of Arts degree from University of Northern British Columbia see:

<http://www.unbc.ca/calendar/undergraduate/academic-breadth-requirement>

The discipline-specific lower level requirements of the BA Major in Economics at the University of Victoria are:

- ECON 103 Principles of Microeconomics
- ECON 104 Principles of Macroeconomics
- Academic Writing Requirement (AWR): ENGL 135, 146, 147 or ENGR 110
- ECON 203 Intermediate Microeconomics
- ECON 204 Intermediate Macroeconomics
- ECON 225 Writing for Economists or ENGR 240 or a minimum grade of B+ in ENGL 135, 146 or 147
- MATH 102 Calculus for Students in the Social and Biological Sciences or MATH 100 Calculus I
- ECON 245 Descriptive Statistics and Probability
- ECON 246 Statistical Inference
- One Social Science course outside of ECON (other than a course in statistics or quantitative methods or ES 312 Environmental Economics), or PHIL 220 Introduction to Philosophy of Science or PHIL 223 Introduction to Philosophy of the Social Sciences

The specific course requirements that are not covered by the Economics Flexible Pre-Major are:

- Academic Writing Requirement (AWR): ENGL 135, 146, 147 or ENGR 110
- ECON 203 Intermediate Microeconomics
- ECON 204 Intermediate Macroeconomics
- ECON 225 Writing for Economists or ENGR 240 a minimum grade of B+ in ENGL 135, 146 or 147
- ECON 245 Descriptive Statistics and Probability
- ECON 246 Statistical Inference
- One Social Science course outside of ECON (other than a course in statistics or quantitative methods or ES 312), or PHIL 220 or 223

These course requirements can be met:

- Academic Writing Requirement (AWR): by taking a course that transfers as UVIC ENGL 135, 146, 147 or ENGR 110. AWR is also satisfied with a final grade of at least 86% (within three years immediately prior to admission) on the B.C. English 12 Provincial Examination or English 12 First Peoples Provincial Examination.
- By taking courses that transfer as UVIC ECON 203 and 204 as one or both of the two Post-Principles Economics courses of the Flexible Pre-Major (i.e. courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite)

- By completing ECON 203 and 204 in the third year of the University of Victoria program
- ECON 225: by taking a course that transfers with a minimum grade of B+ in ENGL 135, 146 or 147, or by taking a course that transfers as UVIC ENGR 240
- By completing ECON 225, 245 and 246 in either the summer term before the third year or in the third year of the University of Victoria program
- By taking a course that transfers to a UVIC Social Science course outside of ECON (other than a course in statistics or quantitative methods or ES 312), or by taking a course that transfers as UVIC PHIL 220 or 223.

For full details on all requirements for programs and options in Economics offered by the University of Victoria, see:

<http://web.uvic.ca/calendar2013/FACS/FoSoS/DoEc/PrRe.html> or

<http://web.uvic.ca/econ/undergraduate/programs/index.php>

For full details on all requirements for the Bachelor of Arts degree from the University of Victoria, see:

<http://web.uvic.ca/calendar2013/FACS/FoSoS/FPre/index.html>

The discipline-specific lower level (years one and two) requirements of the BA Major in Economics at Vancouver Island University are:

- ECON 211 Principles of Microeconomic Theory
- ECON 212 Principles of Macroeconomic Theory
- MATH 191 Calculus with Economic and Business Applications I or MATH 100 Calculus for Engineering and Physical Sciences I or MATH 121 Calculus I
- MATH 161 Introduction to Statistics for Social Sciences or MATH 181 Introduction to Statistics or MATH 211 Statistics I or QUME 232 Business Statistics I

The specific course requirements that are not covered by the Economics Flexible Pre-Major are then:

- None

These course requirements can be met in the following alternative ways:

- N/A

For full details on all requirements for programs and options in Economics offered by Vancouver Island University, see:

<http://www.viu.ca/calendar/UniversityDegreeCompletion/bamajorsminors/economics.asp> or <http://www.viu.ca/economics/degree.asp>

For full details on all requirements for the Bachelor of Arts degree from Vancouver Island University, see:

<http://www.viu.ca/calendar/UniversityDegreeCompletion/bamajorsminors/index.asp#degreerequirements>

TABLE 1**Courses Accepted As Fulfilling the Principles of Microeconomics Requirement in the Economics Flexible Pre-Major**

Alexander College	ECON 103
Camosun College	ECON 103
Capilano University	ECON 111
College of the Rockies	ECON 101
Columbia College	ECON 103
Coquitlam College	ECON 201
Corpus Christi College	ECON 201
Douglas College	ECON 1150
Kwantlen Polytechnic University	ECON 1150
Langara College	ECON 1220
North Island College	ECON 110
Okanagan College	ECON 115
Quest University Canada	SOC 2001+3001
Selkirk College	ECON 107
Simon Fraser University	ECON 103
Thompson Rivers University	ECON 1900
University of British Columbia Okanagan	ECON 101
University of British Columbia Vancouver	ECON 101
University of the Fraser Valley	ECON 100
University of Northern British Columbia	ECON 100
University of Victoria	ECON 103
Vancouver Island University	ECON 211

Where more than one course is listed separated by + this means both of the listed courses

TABLE 2**Courses Accepted as Fulfilling the Principles of Macroeconomics Requirement in the Economics Flexible Pre-Major**

Alexander College	ECON 105
Camosun College	ECON 104
Capilano University	ECON 112
College of the Rockies	ECON 102
Columbia College	ECON 105
Coquitlam College	ECON 202
Corpus Christi College	ECON 202
Douglas College	ECON 1250
Kwantlen Polytechnic University	ECON 1250
Langara College	ECON 1221
North Island College	ECON 111
Okanagan College	ECON 125
Quest University Canada	SOC 2001+3002
Selkirk College	ECON 106
Simon Fraser University	ECON 105
Thompson Rivers University	ECON 1950
University of British Columbia Okanagan	ECON 102
University of British Columbia Vancouver	ECON 102
University of the Fraser Valley	ECON 101
University of Northern British Columbia	ECON 101
University of Victoria	ECON 104
Vancouver Island University	ECON 212

Where more than one course is listed separated by + this means both of the listed courses

TABLE 3**Courses Accepted as Fulfilling the Calculus I Requirement in the Economics Flexible Pre-Major**

Alexander College	MATH 104/151
Camosun College	MATH 108/100
Capilano University	MATH 108/116
College of the Rockies	MATH 103
Columbia College	MATH 111/113
Coquitlam College	MATH 111/101
Corpus Christi College	MATH 110/204
Douglas College	MATH 1125/1120
Kwantlen Polytechnic University	MATH 1140/1120
Langara College	MATH 1174/1171
North Island College	MAT 102/181
Okanagan College	MATH 112
Quest University Canada	MATH 3101
Selkirk College	MATH 140/100
Simon Fraser University	MATH 157/151
Thompson Rivers University	MATH 1170/1140
University of British Columbia Okanagan	MATH 116/100
University of British Columbia Vancouver	MATH 104/184/100
University of the Fraser Valley	MATH 141/111
University of Northern British Columbia	MATH 152/100
University of Victoria	MATH 102/100
Vancouver Island University	MATH 191/100/121

Where more than one course is listed separated by / this means any one of the listed courses

TABLE 4**Courses Accepted as Fulfilling the Statistics I Requirement in the Economics Flexible Pre-Major**

Alexander College	COMM 291
Camosun College	BUS 230/231
Capilano University	MATH 101/102/204/205
College of the Rockies	STAT 106/206
Columbia College	BUSN 291/MATH 206
Coquitlam College	STAT 101/270/290
Corpus Christi College	BUSN 291
Douglas College	MATH 1160/BUSN 2429
Kwantlen Polytechnic University	ACCT 1230/MATH 2315/2341
Langara College	STAT 1123/1124
North Island College	MAT 115
Okanagan College	STAT 121/124
Quest University Canada	MAT 3001
Selkirk College	STAT 105/206
Simon Fraser University	BUEC 232/STAT 270
Thompson Rivers University	BUEC 2320
University of British Columbia Okanagan	STAT 121/124
University of British Columbia Vancouver	STAT 200/203
University of the Fraser Valley	STAT 106
University of Northern British Columbia	ECON 205
University of Victoria	ECON 245
Vancouver Island University	MATH 161/181/211/QUME 232

Where more than one course is listed separated by / this means any one of the listed courses

TABLE 5**Courses Accepted as Fulfilling the Calculus II Requirement in the Economics Flexible Pre-Major**

Alexander College	MATH 105/152
Camosun College	MATH 101
Capilano University	MATH 109/126
College of the Rockies	MATH 104
Columbia College	MATH 112/114
Coquitlam College	MATH 112/102
Corpus Christi College	MATH 111
Douglas College	MATH 1225/1220
Kwantlen Polytechnic University	MATH 1240/1220
Langara College	MATH 1274/1271
North Island College	MAT 182
Okanagan College	MATH 122
Quest University Canada	MATH 3102
Selkirk College	MATH 101
Simon Fraser University	MATH 158/152
Thompson Rivers University	MATH 1240
University of British Columbia Okanagan	MATH 142/101
University of British Columbia Vancouver	MATH 105/101
University of the Fraser Valley	MATH 112
University of Northern British Columbia	MATH 101
University of Victoria	MATH 101
Vancouver Island University	MATH 192/101/122

Where more than one course is listed separated by / this means any one of the listed courses

TABLE 6**Courses Accepted as Fulfilling the Post-Principles Economics Course Requirement in the Economics Flexible Pre-Major**

These are courses for which Principles of Microeconomics and/or Principles of Macroeconomics are pre-requisite(s).

NOTE: This information was compiled in March 2014. Users are encouraged to visit the relevant institution's website and/or to contact the institution directly for current information on any changes or updates.

Alexander College

ECON 201 Microeconomic Theory I: Competitive Behaviour

ECON 210 Money and Banking

ECON 260 Environmental Economics

ECON 280 Introduction to Labour Economics

ECON 290 Canadian Microeconomic Policy

ECON 291 Canadian Macroeconomic Policy

ECON 295 Managerial Economics

Camosun College

ECON 203 Intermediate Microeconomics

ECON 204 Intermediate Macroeconomics

ECON 205 Managerial Economics

ECON 210 Money and Banking

BUS 460 International Trade and Finance

Capilano University

ECON 207 Managerial Economics

ECON 210 Money and Banking

ECON 211 Intermediate Microeconomic Analysis

ECON 212 Intermediate Macroeconomic Analysis

ECON 250 Economic History of the Pre-Industrial Era

ECON 252 Economic History of the Industrial Era

ECON 255 Understanding Globalization

ECON 290 Public Policy I

ECON 291 Public Policy II

ECON 390 Effects of Public Policy on Business and the Economy

College of the Rockies

ECON 207 Managerial Economics

ECON 250 Environmental Economics

ECON 280 Labour Economics

Columbia College

ECON 207 Managerial Economics

ECON 240 Money, Banking and Financial Markets

ECON 260 Environmental Economics

ECON 280 Labour Economics

ECON 290 Canadian Microeconomic Theory

ECON 291 Macroeconomics

Coquitlam College

ECON 203 Introduction to Labour Economics
ECON 210 Money and Banking
ECON 211 Introduction to Financial Economics
ECON 240 Introduction to Economic Data Analysis
ECON 250 Managerial Economics
ECON 255 Understanding Globalization
ECON 260 Environmental Economics
ECON 290 Canadian Microeconomic Policy
ECON 291 Canadian Macroeconomic Policy

Corpus Christi College

COMM 295 Managerial Economics

Douglas College

ECON 2280 Introduction to Labour Economics
ECON 2350 Managerial Economics
ECON 2408 Money and Banking
ECON 2418 History of Economic Thought
ECON 2460 Environmental Economics
ECON 2490 Canadian Microeconomic Policy
ECON 2491 Canadian Macroeconomic Policy
ECON 3101 Introduction to Public Policy and Administration
ECON 3300 North American International Trade Issues
ECON 3450 Intermediate Macroeconomics
ECON 3445 Urban and Regional Economics
ECON 4412 Introduction to Model Building in Economics and Commerce

Kwantlen Polytechnic University

ECON 2210 Money and Banking
ECON 2255 Globalization in an Economic Framework
ECON 2260 Environmental Economics
ECON 2280 Labour Economics
ECON 2350 Intermediate Microeconomics
ECON 3100 Economics of Sustainability Policy
ECON 3150 Managerial Economics
ECON 3208 History of Economic Thought
ECON 3211 Economic History of Canada
ECON 3251 Women and the Economy
ECON 3270 Industrial Organization
ECON 3350 Intermediate Microeconomics II
ECON 3362 Natural Resource Economics
ECON 3450 Intermediate Macroeconomics
ECON 3451 Macroeconomic Policy I
ECON 3455 International Economics
ECON 3555 Economic Development
ECON 4451 Macroeconomic Policy II
ECON 4700 Economics of Crime
ECON 4710 Law and Economics
ECON 4900 Special Topics in Economics

Langara College

ECON 2210 Money and Banking

ECON 2221 Strategic Thinking

ECON 2251 Intermediate Microeconomic Analysis

ECON 2252 Intermediate Macroeconomic Analysis

ECON 2260 Environmental Economics

ECON 2280 Labour Economics

ECON 2296 Managerial Economics

ECON 2298 The Economics of Capital Assets and Project Evaluation

North Island College

ECON 245 Money and Banking

ECON 270 Environmental Economics

Okanagan College

ECON 201 Intermediate Microeconomic Analysis

ECON 202 Intermediate Macroeconomic Analysis

ECON 205 Managerial Economics

ECON 220 Competitiveness in the Canadian Economy

ECON 232 History of Economic Thought

ECON 257 Topics in International Economic Policy

ECON 356 Competitiveness in the Global Economy

ECON 357 International Economics

ECON 362 Labour Economics

ECON 370 Economic Development

Quest University Canada

No transferable courses

Selkirk College

ECON 216 Environmental Economics

Simon Fraser University

All ECON courses **except:**

ECON 102 The World Economy

ECON 103 Principles of Microeconomics

ECON 104 Economics and Government

ECON 105 Principles of Macroeconomics

ECON 110 Foundations of Economic Ideas

ECON 300 Introduction to Economic Concepts and Issues

Thompson Rivers University

All ECON courses **except:**

ECON 1220 Introduction to Basic Economics

ECON 1900 Principles of Microeconomics

ECON 1950 Principles of Macroeconomics

ECON 2220 Economics of Tourism, Recreation and Leisure

ECON 2430 Global and Canadian Economic Issues

ECON 2600 The Economy of British Columbia

ECON 2630 Issues in Aboriginal Economics

ECON 2990 Special Topics in Economics

ECON 3090 Managing Personal Economic Wealth

University of British Columbia Okanagan

All ECON courses **except:**

ECON 101 Principles of Microeconomics

ECON 102 Principles of Macroeconomics

ECON 112 Introduction to the Canadian Economy

ECON 122 Introduction to Economic History and Thought

ECON 260 Poverty and Inequality

ECON 261 Economics of Developing Countries

University of British Columbia-Vancouver

COMM 295 Managerial Economics

All ECON courses **except:**

ECON 101 Principles of Microeconomics

ECON 102 Principles of Macroeconomics

ECON 310 Principles of Microeconomics

ECON 311 Principles of Macroeconomics

University of the Fraser Valley

All ECON courses **except:**

ECON 100 Principles of Microeconomics

ECON 101 Principles of Macroeconomics

ECON 226 Economics and Business Statistics

ECON 349 Financial Management I

ECON 433 Investments

ECON 434 Risk Management and Financial Engineering

ECON 435 International Finance

ECON 449 Financial Management II

University of Northern British Columbia

All ECON courses **except:**

ECON 100 Microeconomics

ECON 101 Macroeconomics

ECON 120 Globalization and the World's Economies

ECON 205 Statistics for the Social and Management Sciences

ECON 206 Methods of Economic Evaluation

ECON 210 Introduction to Health Economics and Policy

University of Victoria

All ECON courses **except:**

ECON 100 The Canadian Economy: Problems and Policies

ECON 103 Principles of Microeconomics

ECON 103C Introduction to Principles of Microeconomics and Financial Project Evaluation

ECON 104 Principles of Macroeconomics

ECON 111 The Economy and the Environment

ECON 112 Strategy, Conflict and Co-operation

ECON 113 Introduction to Economics for Policy Analysis

ECON 185 Introductory Topics in Economics

ECON 245 Descriptive Statistics and Probability

ECON 246 Statistical Inference

ECON 329 Development and Economics

Vancouver Island University

All ECON courses **except:**

ECON 100 Introduction to Economics

ECON 203 Economics of Sports and Recreation

ECON 203 Economics of Tourism

ECON 211 Principles of Microeconomic Theory

ECON 212 Principles of Macroeconomic Theory

ECON 214 Canadian Economic Institutions and Problems

ECON 300 Political Economy for Non-Specialists

TABLE 7

Grid of Courses at Non-Signing Institutions. THESE COURSES AND INSTITUTIONS ARE NOT PART OF THIS FLEXIBLE PRE-MAJOR AGREEMENT

	Micro-Economic Principles	Macro-Economic Principles	Calculus I	Statistics I	Calculus II	Post-Principles
Ascenda School of Management	ECON 121	ECON 122	None	BADM 221	None	1 potential course
Athabasca University	ECON 247	ECON 248	MATH 260/265	MATH 115/116 MGSC 301	MATH 266	4 potential courses
College of New Caledonia	ECON 201	ECON 202	MATH 101	MATH 104/157	MATH 102	None
Fairleigh Dickinson University	ECON 2001	ECON 2102	EGTG 2201	MATH 2337/ DSCI 2029/2130	EGTG 2202	1 potential course
Fraser International College	ECON 103	ECON 105	MATH 157/151	BUEC 232/STAT 270	MATH 158/152	None
Nicola Valley Institute of Technology	ECON 101	ECON 102	None	STAT 230/MATH 120	None	None
Northern Lights College	ECON 101	ECON 102	MATH 105/101	MATH 104	MATH 106/102	None
Northwest Community College	ECON 150	ECON 151	MATH 101	MATH 131	MATH 102	None
TRU-Open Learning	ECON 1901	ECON 1951	MATH 1171/1141	BUEC 3101/STAT 1201	MATH 1241	2 potential courses
Trinity Western University	ECON 201	ECON 102	MATH 120/123	MATH 102/ECON 275	MATH 124	Several potential courses
University Canada West	ECON 103	ECON 109	none	MATH 209	None	None
Vancouver Community College	ECON 1100	ECON 1200	None	None	None	None
Yukon College	ECON 100	ECON 101	MATH 100	BUS 101	MATH 101	None

Where more than one course is listed separated by / this means any one of the listed courses