



Economics Pre-Major (AAECONS)

Program Outline

PROGRAM IMPLEMENTATION DATE: September 2016
OUTLINE EFFECTIVE DATE: September 2022
PROGRAM OUTLINE REVIEW DATE: March 2027

GENERAL PROGRAM DESCRIPTION:

The Economics Pre-Major pathway identifies the first two years of study towards a four-year degree in Economics. Coursework consists of a Liberal Arts foundation in the humanities, social sciences, math, and statistics. This foundation helps develop a deep understanding of people in society and of the cultural, political, economic, and institutional impact of their decisions.

Program Information:

The Economics Pre-Major pathway prepares students for transfer into Year 3 of most Economics degree programs in BC. See detailed notes on the laddering requirements for specific programs below.

Students who achieve all of the requirements of the Economics Pre-Major pathway will receive a COTR Associate of Arts degree. The Associate of Arts degree is a provincially recognized two-year credential that guarantees a full 60 credits of transfer credit within the BC post-secondary system.

Delivery: This program is delivered face to face and online.

COTR Credits: 60

Hours for this program: 990 hours

Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	900
Seminars / Tutorials	
Laboratory / Studio Hours	90
Practicum / Field Experience Hours	
Other Contact Hours	
Total	990

Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-job Experience	
Formal Work Experience	
Other	
Total	

Program Outline Author or Contact:

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Signature

APPROVAL SIGNATURES:

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Valid from: September 2022- March 2027

Education Council Approval Date

PROGRAM PREREQUISITES AND TRANSFER CREDIT:

Admission Requirements:

- Secondary school graduation or equivalent.
- Minimum 65% in either English Studies 12, English First Peoples 12, ENGL 090, or equivalent (refer to Course Equivalency information on the College Website).
- Minimum 65% in both Pre-Calculus 11 AND Pre-Calculus 12; or Pre-Calculus 12 and minimum 75% in Calculus 12; or minimum 65% in either MATH 090 or MATH 100.

Flexible Assessment (FA):

Credit can be awarded for one or more courses in this program through FA Yes No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

Transfer Credit: For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>

Students should also contact an academic advisor at the institution where they want transfer credit.

Economic Pre-Major Pathway program:

This Associate of Arts pathway is designed for transfer to an Economics degree program after 2 years at COTR.

Associate of Arts General Requirements: 60 semester credits of first and second year courses. These must include a minimum of 18 credits in Arts at the second year level taken in two or more subject areas.

Year 1: Fall

Course Number	Course Name	Credits	Lecture-Lab	Institution Recommended
ENGL 100	English Composition	3	45	
ACCT 261 or Elective	Introduction to Financial Accounting 1 or Elective	3	45	
ECON 101	Microeconomics	3	45	
MATH 103	Differential Calculus	3	45-15	
POLI 100	Introduction to Politics and Government	3	45	UNBC
Total		15	225-60	

Year 1: Winter

Course Number	Course Name	Credits	Lecture-Lab	Institution Recommended
ENGL 101 or ENGL 102	Introduction to Poetry and Drama or Introduction to Prose Fiction	3	45	
ECON 102	Macroeconomics	3	45	
STAT 106	Statistics	3	45-15	
MATH 104	Integral Calculus	3	45-15	UBC
ECON 207 or ECON 250	Managerial Economics or Environmental Economics	3	45	UFV
Total		15	225-30	

Year 2: Fall

Course Number	Course Name	Credits	Hours of Instruction	Institution Recommended
BIOL 151 or ENSC 101	Biology of the Environment or Introduction to Environmental Science	3	45-45	
INDG 120	Indigenous World Views	3	45	
HIST 208 or HIST 230	Canadian-American Relations 1867 to present or Canada's Environmental History	3	45	
SOCI 210	Social Science Research Methods	3	45	
Elective	200-level arts elective	3	45	
Total		15	225	

Year 2: Winter

Course Number	Course Name	Credits	Hours of Instruction	Institution Recommended
ECON 207 or ECON 250	Managerial Economics or Environmental Economics	3	45	UFV
MATH 221	Elementary Linear Algebra	3	45	
SOCI 102	Introduction to Sociology 2: Social Institutions	3	45	
HIST 202	Post Confederation Canada (from 1867)	3	45	
Elective	200- level arts elective	3	45	
Total		15	225	

Note: ECON 207 and ECON 250 offered in alternating years. Students must take both courses.

Total Credits: 60
Total Hours: 990

COURSE GRADE:

To earn an Associate of Arts degree, students will be expected to maintain an average overall grade of C or better calculated on all courses counting towards the associate degree.

LADDERING REQUIREMENTS:

This program is to be designed to support laddering options into third year programs in social sciences, specifically Economics programs that use a 2 + 2 model.

Competitive admission into Year 3 programs applies, which means that acceptance into a degree program is not guaranteed.

University programs in Economics include the following (with advising notes on entry to Year 3):

- Simon Fraser University
 - Take SFU ECON 201 in Year three
- Thompson Rivers University
 - Take TRU ECON 2900 and 2950 in Yr. 3
- University of BC-O
 - Take ECON 204 and ECON 205 in Yr. 3
- University of BC-V
 - Take UBC ECON 325 and 326 in Yr. 3
- University of the Fraser Valley
 - Take COTR ACCT 261 before transfer
 - Take UFV BUS 249 and 226 in Yr. 3
 - Take UFV ECON 203 and 207 in Yr. 3
- University of Northern British Columbia
- University of Victoria
 - Take UVic ECON 203 and 204 in Yr. 3
 - Take UVic ECON 245 and 246 in Yr. 3
- Vancouver Island University
 - Direct entry to Yr. 3

COURSE DESCRIPTIONS can be found on the COTR SharePoint site:

<http://www.cotr.bc.ca/CourseOutlines/>

ACCT 261

In this first semester of a two-semester course in accounting, the students are introduced to the basic accounting cycle including preparation of useful financial statements. Other topics include accounting for cash, receivables, inventory, and payroll.

BIOL 151

Biology 151 focuses on environmental and ecological topics within biology from a local perspective. BIOL 151 helps inform students about local and global environmental issues, current events, and new and emerging technologies from a scientific perspective. Students, with the help of their instructor, will design and implement a research project that focuses on a local environmental issue and present it to members of the community.

ECON 101

This course deals with the economic principles that govern the individual segments of the economy. Topics include supply and demand, price elasticity, utility, cost of production, perfect and imperfect market structures, theory of production, the demand for factors, and the pricing of factors. Some current business situations are discussed.

ECON 102

This course presents the economic principles that govern the behaviour of the nation's economy. Topics include production possibility, supply and demand, national income analysis, money and banking, fiscal and monetary policy, and international trade. Current Canadian economic problems are discussed.

ECON 207

This course deals with quantitative strategies to assist management decision-making. Topics covered include economic optimization, demand and demand estimation, forecasting techniques, production functions, cost analysis and estimation, the perfectly competitive, monopoly, monopolistically competitive and oligopoly market structures, pricing practices, and evaluating risk. Basic differentiation techniques are introduced. This course may appeal to those students wishing to transfer to a commerce or business administration degree program or those who wish to learn about this managerial application of microeconomic principles.

ECON 250

This course provides an introduction to the concepts and methods of analysis in environmental economics. It applies microeconomic principles to the examination of market failures and how they may be corrected either through incentives or policy. Topics include valuing the environment, cost-benefit analysis, environmental policy analysis, and specific Canadian environmental issues and policy.

ENGL 100

English 100 focuses on composition strategies for writing across academic disciplines. Over the course of the term, students will develop an awareness of how rhetorical situations affect composition and refine their understanding of the fundamentals of essay writing (and clear communication more broadly), including paragraphing, thesis statements, essay structure, and citation methods. Students will also learn the fundamentals of critical thinking and analysis, persuasive writing techniques (including rhetorical appeals and modes), scholarly research, and academic reading.

ENGL 101

An introduction to the critical reading of literature through the study and analysis of poetry and drama across historical periods from Shakespeare to twenty-first century poets and dramatists. While this course will teach students how to perform college-level literary analysis of canonical texts, it will also teach students how to question and evaluate the cultural narratives that literature circulates. As such, the class will explore questions of gender, class, race, nationhood/nation building, and the problematic literary canon in order to develop strategies for negotiating complex literary texts and to become better, more nuanced readers.

ENGL 102

English 102 introduces students to the genre of literary fiction from the origins of the short story in early nineteenth century to the novels of twentieth and twenty-first century. The aim of English 102 is to read fiction with an understanding of genre, technique and form; to apply various critical strategies to literary texts; and to develop analytical writing skills appropriate to essays at the university level. Ultimately, the course encourages students to consider how narrative forms can shape, challenge and respond to their moral, social, and political contexts.

ENSC 101

This course introduces students to scientific analysis and communication of environmental issues. Students will learn about natural systems and the complex interactions among their biological, physical, chemical and anthropogenic components. Students will consider Western and Indigenous perspectives, governance, and economic factors to critically evaluate and communicate environmental problems. Students will investigate how those issues affect various aspects of the ecosphere, including humans, and will use integrated knowledge and perspectives to explore sustainable solutions. Laboratory activities, field trips and guest lectures will offer the opportunity to study regional environments and local environmental issues.

HIST 202

A historical survey of Canada, this course traces the country's development from the immediate aftermath of Confederation to contemporary times. Over that period, significant actors and events, like the World Wars and the Depression, will be considered. Greater attention, however, will be paid to changes and continuities arising from Canada's territorial growth; consolidation under the national policy, including incorporating large numbers of immigrants into the country; cleavages in their various manifestations; imperialism-continentalism choices; industrialization/urbanization/reform movements; post-war international and social decisions; Sixties' upheavals, and Indigenous marginalization. All of these areas of study will help foster students' interest in the importance of understanding this country's past and allow them to acquire greater historical consciousness to critically question whether Canadians' attempts to create a great nation were best for all.

HIST 208

Canada and the United States' relationship has been framed as special. For some time, it included Great Britain, so that adjunct partner must be incorporated. Over time, it was not always peaceful, so military, political, economic, and cultural annexation attempts must be studied. Finally, it featured demands and missteps, so disinterest and awkwardness must be explored. Ultimately, students come to understand a shared history based upon Canadians' anti-American beliefs resulted in a mercurial, ambivalent, and three-sided relationship.

HIST 230

Nature and humans have had a long, complex, reciprocal relationship, making for certain conceptions, processes, and complexities to develop. Those developments have led to three main areas of historical overview and deeper consideration: 1) How Canadians, including Indigenous people, have thought about the natural environment and colonized landscapes; 2) How development of resources and industrialization/urbanization in Canada have had short and long term effects; and 3) How Canada's conservationists and environmentalists have responded at various junctures to address concerns. Using an array of interdisciplinary sources emerging in the burgeoning environmental history field, this course ultimately places the dynamic interplay between the environment and people under study to better understand that relationship over time.

INDG 120

This course uses Indigenous pedagogy to support students in understanding their relationships to Indigenous peoples and territories in British Columbia. Students will learn about contemporary issues facing some of the Indigenous nations within British Columbia from an Indigenous perspective. Through examining both local and larger provincial conversations surrounding Indigenous rights, treaties (or lack thereof), and the history of colonization, students will learn to consider concepts of cultural appropriation, and examine the idea of decolonization in action.

MATH 103

This course is intended for students who are pursuing a Bachelor of Science degree. Topics include: functions, limits, continuity, derivatives, their interpretation, differentiation rules, techniques of differentiation, implicit differentiation, inverse functions, exponential functions, logarithms, applications of differentiation such as linear approximations, Newton's method, related rates, analysis of graphs, and optimization, the Mean Value Theorem, definite and indefinite integrals, integration by substitution, Riemann sums, and applications of integration. Calculus is a necessary step in any career in the sciences including Biology, Chemistry, Commerce, Computer Science, Engineering, Geology, Mathematics, Medicine, and Physics. It is also useful in any field which uses Statistics to analyze data.

MATH 104

Students work with polynomial, rational, logarithmic, exponential, trigonometric, inverse, and hyperbolic functions. They will learn integration techniques (substitution, parts, partial fractions, trigonometric substitution, numerical methods), applications of integration (volumes of revolution, work, fluid, force, surfaces, arc length, and centroids); l'Hôpital's rule and improper integrals; sequences and series; convergence tests (divergence, integral, comparison, limit comparison, ratio, root, and alternating series tests), Power, Maclaurin and Taylor series, differential equations, polar curves (common graphs, slopes, area, arc length, and conics) and parametric equations (higher order derivatives, area, and arc length). Calculus is a necessary step in any career in the sciences including Biology, Chemistry, Commerce, Computer Science, Engineering, Geology, Mathematics, Medicine, and Physics. It is also useful in any field which uses Statistics to analyze data.

MATH 221

This course is intended for students who are pursuing a Bachelor of Science (with a major in Computing, Mathematics, or Physics) or Applied Science (Engineering) degree. Topics include: systems of linear equations and matrices, matrix arithmetic, determinants, vectors, products of vectors, lines and planes in 2- and 3-space, Euclidean vector spaces, real vector spaces, inner product spaces, eigenvalues and eigenvectors, diagonalization, linear transformations, kernel, range, similarity, approximation and quadratic forms.

POLI 100

This course introduces students to political science, assisting them to gain a foundational understanding of first, the discipline's key concepts and second, its practicalities. In order to do so, study will start with the fundamental nature of politics; power in all its guises; political beliefs, attitudes, and values acquisition; and the theoretical bases/action plans of various ideologies. Consideration will then turn to an exploration of peoples' efforts to create proper sized political units; set fundamental rules; lead and make decisions; debate and pass laws; offer advice for and put in place government programs; organize to achieve goals and aims; and devise electoral systems to make choices. To clarify and solidify learning this information, students will work up case studies so they can develop better-informed political opinions and proceed to other political science courses.

SOCI 102

This introductory course examines the major social institutions and social processes in contemporary society, and examines in the central theoretical perspectives in sociology: functionalism, conflict theory, symbolic interactionism, feminism, and postmodernism. Topics include: Family, Education, Religion, Mass Media, Economy and Work, Power, Politics and Government, Social Class and Stratification, Global Stratification, and Collective Behaviour, Social Movements and Social Change.

SOCI 210

Introduction to Social Science Research Methods examines the scientific method applied to the understanding of behaviour, the recognition and posing of scientifically researchable questions, and the examination of different research designs. Students gain an interdisciplinary understanding of qualitative and quantitative methods and ethics in social science research. Students are introduced to relevant research questions, issues of interest, and how to communicate knowledge and information about their social world. This course also introduces Indigenous research methodologies.

STAT 106

This course introduces the fundamental ideas of statistics and can be applied to any discipline. Topics include: collection, description, and presentation of data; calculating central tendency and dispersion; probability and statistical inference; hypothesis testing (means, proportions, variances, one and two samples); correlation and regression; decision making and sampling, Goodness of Fit Tests, and Contingency Tables.