Social Sciences Curriculum Committee

Proposals Reported for Information
(Abbreviated Review)

November 14, 2019
**1 Course Modification:**

**ANT450H1: Nature, Culture and the City**

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<tr>
<th>Title:</th>
<th>Previous: Nature, Culture and the City</th>
<th>New: Multispecies Cities</th>
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<table>
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<tr>
<th>Abbreviated Title:</th>
<th>Previous: Nature, Culture City</th>
<th>New: Multispecies Cities</th>
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<tr>
<th>Rationale:</th>
<th>The title change better reflects the content of the course and uses more contemporary disciplinary language.</th>
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5 Minor Program Modifications:

Economics & Mathematics Specialist

Completion Requirements:

Program Course Requirements: 13 full courses or their equivalent

First Year (2.0 FCE):

1. ECO100Y/(ECO101H1, ECO102H1)/ECO100Y1
2. MAT137Y1/MAT157Y1

Second Year and Higher (Core Courses, 8.5 FCE):

1. ECO206Y1, ECO208Y1, ECO220Y1/ECO227Y1/(STA257H1, STA261H1)
2. CSC108H1/CSC148H1
3. MAT223H1/MAT240H1, MAT224H1/MAT247H1, MAT237Y1/MAT257Y1, MAT246H1
4. ECO325H1, ECO326H1, ECO375H1
5. MAT337H1/MAT357H1, APM462H1

Third Year and Higher (Elective Courses, 2.5 FCE):

1. 0.5 FCE 300+ level ECO course
2. 1.0 FCE 400-level ECO courses
3. 1.0 FCE 300-level or higher MAT (or APM) courses (in addition to APM462H1).

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. Students must meet all prerequisites for upper-year math and economics courses, and should choose their sequencing of courses accordingly.
3. CSC108H1/CSC148H1 may be taken in First Year.
4. MAT223H1/MAT240H1 may be taken in First Year.
5. ECO475H1 is strongly recommended.
6. STA302H1/STA303H1 are not accepted in lieu of ECO375H1.
7. Students with MAT157Y1 cannot take MAT246H1 (it is an exclusion). Such students can instead substitute any 300-level MAT or APM course to meet the MAT246H1 requirement.

Description of Proposed Changes:
Changing the sequence of courses ONLY in order to flag our active courses (ECO101H1, ECO102H1) to prospective students. ECO100Y1 will soon be retired.
Addition of Note #1 to flag minimum grade requirements (ECO101H1, ECO102H1) for specialist stream courses to prospective students.

Rationale:
Minor edits in order to be more precise and consistent throughout our program listings. Creates less confusion for
**Economics Minor**

**Completion Requirements:**

*Program Course Requirements: 4 full courses or their equivalent*

**First Year (2.0 FCE):**

1. (ECO101H1, ECO102H1) ECO100Y1/ECO101H1+ECO102H1/ECO105Y1/ECO100Y1
2. MAT133Y1/(MAT135H1, MAT136H1)/MAT137Y1/MAT157Y1

**Second Year (Core Courses, 1.0 FCE):**

- ECO200Y1/ECO204Y1/ECO206Y1

**Third and Higher Years (ECO Electives, 1.0 FCE):**

- 1.0 FCE 300+ level series ECO courses

**Notes: NOTES:**

1. Students enrolled in the Minor Program in Economics cannot be enrolled in any other Minor, Major, Specialist or Joint Specialist Economics program.
2. Eligibility for all Economics programs is based, in part, on attaining a minimum grade in ECO101H1 and ECO102H1 (or ECO105Y1). Students are reminded that in order to achieve the required minimum grade in the above-mentioned courses, they may repeat a specific passed course only once as per Faculty regulations.
3. Many 300-level and higher courses in economics require ECO220Y1. While not a formal part of the Economics Minor program, students MUST meet the specified prerequisites for 300+ economics courses, and should seriously consider taking ECO220Y1.

**Description of Proposed Changes:**

Changing the sequence of courses ONLY in order to flag our active courses (ECO101H1, ECO102H1) to prospective students. ECO100Y1 will soon be retired.

**Rationale:**

Minor edits in order to be more precise and consistent throughout our program listings. Creates less confusion for prospective students.

**Impact:**
Economics (FAS), Department of

Consultation:
Gillian Hamilton, Associate Chair of Undergraduate Affairs; ECO Undergraduate Curriculum Committee;

Resource Implications:

Economics Specialist

Completion Requirements:

Program Course Requirements: 12 full courses or their equivalent

First Year (2.0 FCE):

1. ECO100Y1 (ECO101H1, ECO102H1)/ECO100Y1
2. (MAT135H1, MAT136H1)/MAT137Y1/MAT157Y1

Note: MAT133Y1 is not a suitable substitute for (MAT135H1, MAT136H1)/MAT137Y1/MAT157Y1.

Second Year (Core Courses, 3.0 FCE):

- ECO206Y1, ECO208Y1, ECO220Y1/ECO227Y1/(STA257H1, STA261H1)

Third Year (Core Courses, 1.5 FCE):

- ECO325H1, ECO326H1, ECO375H1

Third Year and Higher (ECO Electives, 5.5 FCE):

1. 4.5 FCE 300-level ECO or higher ECO courses
2. 1.0 FCE 400-level ECO courses

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. ECO210H1 is highly recommended, especially for students interested in graduate studies. Students may count ECO210H1 towards the Specialist program in lieu of a 0.5 300-level ECO elective.
3. While 200-level or higher math or statistics courses may complement the Economics Specialist courses, they cannot be used as substitutes for economics courses in this program.
4. Students are nevertheless encouraged to take more math if they plan on pursuing graduate studies. Students should especially consider MAT221H1/MAT223H1/MAT240H1 (Linear Algebra), MAT235Y1/MAT237Y1 (Multivariate Calculus), MAT246H1 (Abstract Mathematics), or even consider doing a Minor program in Mathematics.
5. ECO475H1 is strongly recommended.
6. STA302H1/STA303H1 are not accepted in lieu of ECO375H1.
7. (STA220H1, STA255H1) are not accepted in lieu of ECO220Y1/ECO227Y1/(STA257H1, STA261H1).
8. CSC108H1/CSC148H1 (introductory programming) is strongly recommended for students interested in graduate studies.
**Description of Proposed Changes:**

Changing the sequence of courses ONLY in order to flag our active courses (ECO101H1, ECO102H1) to prospective students. ECO100Y1 will soon be retired. Addition of Note #1 to flag minimum grade requirements (ECO101H1, ECO102H1) for specialist stream courses to prospective students.

**Rationale:**

Minor edits in order to be more precise and consistent throughout our program listings. Creates less confusion for prospective students.

**Impact:**

**Consultation:**

Gillian Hamilton, Associate Chair of Undergraduate Affairs; ECO Undergraduate Curriculum Committee;

**Resource Implications:**

### Environmental Economics Minor

**Completion Requirements:**

(4 full courses or their equivalent)

1. (ECO101H1, ECO102H1) ECO100Y1/ECO101H1+ECO102H1/ECO105Y1/ECO100Y1
2. MAT133Y1/MAT135Y1/MAT137Y1
3. ECO200Y1/ECO204Y1/ECO206Y1
4. **1.0 FCE One full ECO course at the 300+ level ECO courses**, including at least one of ECO313H1 and/or ECO314H1

**Note:**

Students enrolled in this Minor program cannot be enrolled in any other program in Economics.

**Description of Proposed Changes:**

Changing the sequence of courses ONLY in order to flag our active courses (ECO101H1, ECO102H1) to prospective students. ECO100Y1 will soon be retired. Minor edits such as changing "one" to "1.0".

**Rationale:**

Minor edits in order to be more precise and consistent throughout our program listings. Creates less confusion for students.

**Impact:**

**Consultation:**

Gillian Hamilton, Associate Chair of Undergraduate Affairs; ECO Undergraduate Curriculum Committee;

**Resource Implications:**

### Financial Economics Specialist

**Completion Requirements:**

*Program Course Requirements: 13 full courses or their equivalent*

*First Year (2.0 FCE):*
1. ECO100Y1 (ECO101H1, ECO102H1)/ECO100Y1
2. (MAT135H1, MAT136H1)/MAT137Y1/MAT157Y1

Note: MAT133Y1 is not a suitable substitute for (MAT135H1, MAT136H1)/MAT137Y1/MAT157Y1.

Second Year (Core Courses, 3.0 FCE):

- ECO206Y1, ECO208Y1, ECO227Y1/(STA257H1, STA261H1)

Third Year (Core Courses, 2.5 FCE):

1. ECO325H1, ECO326H1, ECO375H1
2. ECO358H1, ECO359H1

Third Year and Higher (Electives, 5.5 FCE, at least 1.0 at the 400-level):

1. 1.0 FCE from ECO349H1, ECO356H1, ECO440H5, ECO456H1, ECO461H1/ECO460H5, ECO462H1/ECO434H5, ECO463H1/ECO463H5, ECO464H1, ECO465H1, ECO475H1
2. 4.5 additional FCE 300+ level ECO courses credits

Notes:

1. A minimum of 70% is required in ECO101H1 and ECO102H1 to meet prerequisites for specialist-level intermediate ECO courses (ECO206Y1, ECO208Y1, ECO227Y1).
2. Some required courses at upper-year levels may be offered only on the St. George or on the University of Toronto Mississauga campus in any given year. Students registered in this program at either campus may have to attend lectures on the other campus in such cases.
3. MAT221H1/MAT223H1/MAT240H1 is recommended as preparation for ECO375H1. Students taking one of these MAT courses can have it count in lieu of a 0.5 300-level ECO course credit required for this program.
4. (MAT235Y1/MAT237Y1)/ECO210H1 is strongly recommended for this program. Students taking one of these courses can have it count in lieu of 0.5 300-level course credit required for this program.
5. ECO475H1 is strongly recommended.
6. STA302H1/STA303H1 are not accepted in lieu of ECO375H1.
7. CSC108H1/CSC148H1 (introductory programming) is strongly recommended for students interested in graduate studies.

Description of Proposed Changes:

Changing the sequence of courses ONLY in order to flag our active courses (ECO101H1, ECO102H1) to prospective students. ECO100Y1 will soon be retired.
Addition of Note #1 to flag minimum grade requirements (ECO101H1, ECO102H1) for specialist stream courses to prospective students.

Rationale:

Minor edits in order to be more precise and consistent throughout our program listings. Creates less confusion for prospective students.

Impact:
## Consultation:
Gillian Hamilton, Associate Chair of Undergraduate Affairs; ECO Undergraduate Curriculum Committee;

## Resource Implications:

### 26 Course Modifications:

#### ECO105Y1: Principles of Economics for Non-Specialists

**Description:**

**Rationale:**
Updating course description for current/prospective students who are choosing between this course and ECO101H1, ECO102H1.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

#### ECO197H1: Seminar on Classical Economic Thought

**Description:**
This seminar examines the basic ideas of the five most notable economic thinkers before 1870: Aristotle, Adam Smith, Thomas Malthus, David Ricardo, and Karl Marx. We focus on demand as the basis of price in Aristotle; the ambiguity in Smith between a labour theory of value and a demand/supply theory of value; the principle of population in Malthus; Ricardo’s labour theory of value and his theory of rent and economic growth; and Marx’s labour theory of value as the explanation for the development of capital. The understanding in these authors of economics as an historical process of production gives fascinating insights into modern economic development that contrast with the modern economic concentration on the distribution of resources in a world of scarcity. Restricted to newly-admitted first-year students. Not eligible for CR/NCR option.

**Rationale:**
Making minor edits to course description, correcting typographical errors.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

#### ECO198H1: Seminar on Modern Economic Thought
This seminar examines the development of modern economic thought from the marginal revolutionaries (Jevons and Menger) who proclaimed that demand in the form of utility was the basis of price to the supply/demand analysis of Alfred Marshall that established modern microeconomics by 1890. We then look at Irving Fisher’s 1907 foundation of the modern concept of the interest rate and the present value of capital before reviewing J.M. Keynes’ 1936 criticism of neo-classical positions on full employment and interest rates in arguing for government manipulation of interest rates to ensure full employment. We finish with Milton Friedman’s championing of the unregulated market economy through his quantity theory of money critique of Keynes. 

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO199H1: Economics and Sustainable, Green Development

Description:

Economic growth has been a powerful force through history in improving living standards throughout the world. At the same time, there is a growing recognition that environmental damages frequently accompany this growth, whether it be at the local level (soil degradation and deforestation), or the global level (climate change). Economics studies the allocation of scarce resources, but how can it incorporate "the environment" in a meaningful way that can help guide policy-makers in the 21st century? This course is a fast review of economic approaches and tools, and a review of a wide range of environmental policies, designed to manage the possible adverse impacts of economic expansions. The major emphasis in this course is on the market-based policies that guarantee incentive compatibility of these policies, thus, a higher chance of success. Restricted to first-year students. Not eligible for CR/NCR option.

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO204Y1: Microeconomic Theory and Applications (for Commerce)

Description:

The use of microeconomics to analyze a variety of issues from marketing and finance to organizational structure. Consumer preferences and behaviour; demand, cost analysis and estimation; allocation of inputs, pricing and firm behaviour under perfect and imperfect competition; game theory and public policy, including competition policy. Business cases are used to connect theory and practice and to highlight differences and similarities between economics and accounting, marketing and finance. This course is restricted to students in the Commerce programs.

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
ECO206Y1: Microeconomic Theory

Description:
This course deals more rigorously and more mathematically with the topics included in ECO200Y1 and ECO200Y1 and is intended primarily for students in certain Economics Specialist programs.

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO208Y1: Macroeconomic Theory

Description:
This course deals more rigorously and more mathematically with the topics included in ECO202Y1 ECO202Y and is intended primarily for students in certain Economics Specialist programs.

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO250Y1: Special Topics in Economics

Description:
Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department (see the Undergraduate Administrator or the Economics Department website for details).

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:
ECO251H1: Special Topics in Economics

**Description:**
Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department (see the Undergraduate Administrator or the Economics Department website for details).

**Rationale:**
Making minor edits to course description, correcting typographical errors.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

ECO316H1: Applied Game Theory

**Description:**
Focuses on the core ideas and concepts of game theory and on applications of them in economics and other social sciences. Topics may include: oligopoly, electoral competition, the theory of public goods, voting theory, the free rider problem, repeated interaction, bargaining, evolutionary equilibrium, matching and auctions.

**Note:** This course cannot be taken as a substitute in programs that require ECO326H1.

**Rationale:**
Making minor edits to course description, correcting typographical errors.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

ECO320H1: Economic Analysis of Law

**Description:**
The practical application of microeconomic theory to common legal problems: torts, contracts, property and crime, and the limitations of economic analysis. No previous familiarity with the law is assumed. (This is an economic analysis of legal issues, not a course in law.)

**Rationale:**
Making minor edits to course description, correcting typographical errors.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**
ECO321H1: Canadian Economic History prior to 1850

Description:

This course applies the tools of economics - theoretical and empirical - to study Canada's historical growth experiences. Topics include the variation in well-being among Indigenous peoples (both pre and post contact), migration and indentured servitude, colonial money, child labour and education, and the rise of factories. The impact of colonial institutions on Canada’s economic success is studied in a comparative context.

Exclusions:

ECO323Y5, ECO322Y5, ECO323Y5

Rationale:

Making minor edits to course description, correcting typographical errors. We are NOT changing the exclusions, simply placing them in numerical order instead.

Consultation:

Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO322H1: Canadian Economic History, 1850-1960

Description:

Canadian economic history between 1850 and 1960, with a focus on the debate over the ability of the market mechanism to optimize economic development. Topics covered include: tariff policies, Confederation, the transcontinental railroad, opening the West, the Great Depression, monetary policy and the Bank of Canada, regional growth and dominion-provincial relations.

Exclusions:

ECO323Y5, ECO322Y5, ECO323Y5

Rationale:

Making minor edits to course description, correcting typographical errors. We are NOT changing the exclusions, simply placing them in numerical order instead.

Consultation:

Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO351H1: Special Topics in Economics

Description:

Courses may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Economics Department (see the Undergraduate Administrator or the Economics Department website for details).

Rationale:

Making minor edits to course description, correcting typographical errors.
**ECO420Y1: Special Topics in Economics**

**Description:**

Seminars or workshops may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department. (See the Undergraduate Administrator or the Economics Department website for details.)

**Prerequisites:**
- **Previous:** TBA, permission of instructor
- **New:** TBA

**Rationale:**
Minor edits in order to be more precise and consistent in all our special topics course descriptions.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

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**ECO421H1: Special Topics in Economics**

**Description:**

Seminars or workshops may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department. (See the Undergraduate Administrator or the Economics Department website for details.)

**Prerequisites:**
- **Previous:** TBA, permission of instructor
- **New:** TBA

**Rationale:**
Minor edits in order to be more precise and consistent in all our special topics course descriptions.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

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**ECO422H1: Special Topics in Economics**

**Description:**

Seminars or workshops may be offered in one or more subjects each year. Students must meet the prerequisites announced by the Department. (See the Undergraduate Administrator or the Economics Department website for details.)

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<td><strong>Previous:</strong> TBA, permission of instructor</td>
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<td><strong>New:</strong> TBA</td>
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<td>ECO426H1: Market Design</td>
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**Description:**

This course presents the theory and practice of market design, including matching markets and auctions. Sample topics include: school choice, kidney exchange, spectrum auctions, and keyword auctions.

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<td>ECO427H1: Economics of Information</td>
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**Description:**

This course examines the role and the use of information in strategic situations. The class will expand on the material covered in game theory classes and illustrate it with applications. Topics include: communication, signalling, building reputations, adverse selection, etc.

**Exclusions:**

ECO421H1(Special Topics in Economics:Economics of Information), offered in Winter 2018 and Winter 2020.

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<td>ECO434H1: Topics in Political Economy</td>
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**Description:**

This course surveys recent advances in political economy, emphasizing the critical evaluation of empirical evidence pertaining to political economic theories. Topics vary by year, but may include: voters and electoral competition, and the
political economy of media and political agency.

Prerequisites:
ECO316H1/ECO326H1/ECO326H1; ECO374H1/ECO375H1

Rationale:
Minor edits in order to be more precise and consistent in all our 400-level course descriptions.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO437H1: Quantitative Macroeconomics

Description:
In order to capture the complexity of economic behaviour and interactions, especially with a significant time dimension, modern models of the macroeconomy make considerable use of computer simulation. This course teaches students both how to develop the economic models, and how to solve and work with them computationally.

Rationale:
Making minor edits to course description, correcting typographical errors.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO451H1: Macroeconomic Growth

Description:
Studies current empirical evidence, and corresponding theoretical models to explain and understand macroeconomic growth, and its varied experience across countries. Coverage and depth of treatment go beyond ECO362H1. Students may benefit from, but need not have taken ECO362H1.

Prerequisites:
ECO325H1(60%); ECO374H1 (60%)/ECO375H1 (60%)

Rationale:
Making minor edits to course description, correcting typographical errors. Minor edits to prerequisite text in order to be more precise and consistent in all our 400-level course descriptions.

Consultation:
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

Resources:

ECO462H1: Financial Econometrics

Description:
This course is intended primarily for students in the Financial Economics specialist program. An introduction to the econometrics used in empirical finance, with an emphasis on estimation and inference using computer based applications. Topics will include: parametric and nonparametric models of volatility, evaluation of asset pricing theories, and models for risk management and transactions data.

**Prerequisites:**
ECO358H1 (70%); ECO375H1 (70%)/ECO375H5 (70%)

**Rationale:**
Making minor edits to course description, correcting typographical errors. Minor edits to prerequisite text in order to be more precise and consistent in all our 400-level course descriptions.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

**ECO463H1: Financial Market Innovation**

**Description:**
A research-oriented course that explores the impact of technological developments on the industrial organization of financial markets. Topics include: the impact of the automated financial products and procedures (e.g., algorithmic trading and robo-advising) on the price formation process, the economic impact of new tools and technologies (e.g., blockchain, digital currencies, and predictive analytics such as machine learning), the emergence of alternative financing methods such as crowdfunding and peer-to-peer lending.

**Prerequisites:**
ECO200Y1 (70%)/ECO204Y1 (60%)/ECO206Y1 (60%) ; ECO374H1 (70%)/ECO375H1 (70%)/CSC321H1/CSC411H1

**Rationale:**
Making minor edits to course description, correcting typographical errors. Minor edits to prerequisite text in order to be more precise and consistent in all our 400-level course descriptions.

**Consultation:**
Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

**ECO465H1: International Finance**

**Description:**
An advanced course that addresses topics in international finance and macroeconomics. Potential topics include: foreign exchange market; exchange rate determination; empirical models of exchange rates; international financial markets and uncertainty; international CAPM and home bias; sovereign debt; optimal capital controls.

**Prerequisites:**
### Economics (FAS), Department of

One of the following:

- ECO365H1 (80%) OR (ECO325H1 (60%) + ECO374H1 (60%)) OR (ECO325H1 (60%) + ECO375H1 (60%))

**Rationale:**

Making minor edits to course description, correcting typographical errors. Minor edits to prerequisite text in order to be more precise and consistent in all our 400-level course descriptions.

**Consultation:**

Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**

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**ECO466H1: Empirical Macroeconomics and Policy**

**Prerequisites:**

ECO208Y1 (70%)/ECO209Y1 (70%)/ECO202Y1 (75%)/ECO325H1 (70%) OR ECO374H1 (70%)/ECO375H1 (70%)

**Rationale:**

Minor edits to prerequisite text in order to be more precise and consistent in all our 400-level course descriptions.

**Consultation:**

Associate Chair of Undergraduate Affairs and Undergraduate Administrator.

**Resources:**
1 Minor Program Modification:

**Fundamental Genetics and its Applications Major**

**Description:**

- **Previous:**
- **New:**

**HMB: Fundamental Genetics and its Applications**

The objective of the HMB: Fundamental Genetics and its Applications specialist and major programs are to provide students with a solid foundation in the biological sciences with a focus on genetics and its applications in medicine, environment and biotechnology.

**Completion Requirements:**

**Required Courses (8.0 FCE, including at least 0.5 FCE at the 400-level)**

**Chemical and Physical Foundations of Biological Systems**

1. (CHM135H1, CHM136H1) / (CHM138H1, CHM139H1) / CHM151Y1
   - *Transfer credits will be accepted in lieu of the chemistry requirements only if they carry a direct exclusion or equivalency to a pre-approved chemistry course*

2. MAT135H1 / PHY131H1 / PHY151H1 / CSC120H1 / CSC148H1
3. BCH210H1

**Biological Foundations of Living Systems**

4. BIO120H1, BIO130H1
5. BIO220H1
6. BIO230H1 / BIO255H1

**Courses in Fundamental Genetics**

7. HMB265H1 / BIO260H1
8. HMB321H1


**Courses in Applied Genetics**

10. HMB201H1
11. HMB301H1 / HMB360H1 / BCH311H1 / CSB349H1 / ECO369H1 / PSL350H1

12. 0.5 FCE from: HMB301H1 / HMB401H1 / HMB431H1 / HMB436H1 / HMB441H1 / HMB489H1 / BCH311H1 / BCH340H1 / BCH350H1 / BCH441H1 / BCH447H1 / CSB352H1 / CSB458H1 / CSB459H1 / CSB472H1 / CSB473H1 / CSB474H1 / EEB325H1 / EEB459H1 / EEB460H1 / NFS487H1 / PHL384H1 / PSL350H1 / PSL404H1 / PSY390H1

**Data Analysis and Research-Based Courses**
13. 0.5 FCE in statistics: HMB325H1/EEB225H1/STA220H1/STA288H1/PSY201H1

14. 0.5 FCE from a research-based or lab course: HMB311H1/HMB314H1/MGY315H1/HMB342H1/HMB360H1/HMB490Y1 HMB496Y1 */HMB496Y1 HMB499Y1 */HST373H1/MGY314H1/MGY377H1/MGY378H1

*A research project from a different unit may be accepted with prior written approval from Human Biology if the course is not counting toward a different program.

**Fundamental Genetics and its Applications Major Notes:**

1. Courses can only count toward one requirement, even if listed as options to multiple requisites of the program.
2. Not all courses listed have priority enrolment for Fundamental Genetics and its Applications majors. Students are responsible for checking priority of courses and meeting course prerequisites for courses they wish to take.
3. The Fundamental Genetics and its Applications major cannot be paired with any other Human Biology Program managed major program.

**Description of Proposed Changes:**

- Added a program description.
- Removed courses: CHM138H1/CHM139H1/ECO369H1/HMB325H1
- Removed HMB499Y1. Added HMB490Y1.
- CSB349H1 was added where PSL350H1/BCH311H1 existed.
- Added PSY201H1 to statistics requirement.

**Rationale:**

Program description was missing.
Courses (CHM138H1/CHM139H1/ECO369H1/HMB325H1) aren't offered or retired.
Removed HMB499Y1 because it was never intended that students use two research project towards any of our programs, leftover from when HMB499Y1 was our primary 4th year project, now HMB496Y1 is. Students may also choose to do a community engaged full year course HMB490Y1, that we proposed last year, we are adding it to programs this year.
Our students take any of BCH311H1/CSB349H1/PSL350 (mostly dependent on if they are enrolled in other majors or minors.) Currently doing manual substitutions on Degree Explorer.
We will use any statistics course, we are normalizing the options across our programs.

**Impact:**

Minor, students will have to ask for fewer exceptions. They won't see course options that don't exist.

**Consultation:**

The details of the course changes were reviewed with the Department of Cell and Systems Biology, who were supportive of the addition of CSB349H1. Also, regarding the ECO369 removal, we consulted with Gillian Hamilton, who agreed with our rationale.

**Resource Implications:**
1 Course Modification:

IRE379H1: Employment Relations Research & Human Resource Analytics

<table>
<thead>
<tr>
<th>Title:</th>
<th>Employment Relations Research &amp; Human Resource Analytics for Industrial Relations and Human Resources</th>
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<tbody>
<tr>
<td>Abbreviated Title:</td>
<td>Previous: Rsch &amp; HR Analytics New: Research Analytics for IRHR</td>
</tr>
<tr>
<td>Contact Hours:</td>
<td>Previous: Lecture: 36 New: Lecture: 24 / Tutorial: 12</td>
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<tr>
<td>Description:</td>
<td>Previous: An introduction to fundamental quantitative and qualitative research methods to enable students to critically evaluate and conduct research in the labour field. The class will explore data-driven, analytical approaches to managing human resources using basic metrics, analysis, and interpretation of information that link human resource initiatives to various indicators of organizational performance.</td>
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<td></td>
<td>New: Data science is changing the way organizations make decisions. This course introduces a data analytics perspective on employment relations and human resources, including the measurement of performance metrics, analysis of organizational policies, and visualization of data. Students will develop basic data skills in the R statistical computing environment.</td>
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</table>

Rationale:

- Academic Rationale for course description change
  1. New description mentions data and analytics skills. Modern research in employment relations require a facility with data that the revised course description addresses.
  2. Elimination of qualitative research from course description. In order to effectively teach the skills of quantitative research -- which require significant instructional and homework time -- qualitative research has been eliminated from the course description. This is in recognition of a breadth vs depth tradeoff in instruction.
  3. Being specific about the computing environment. Students should have an opportunity to know what they are going to learn before they arrive in the classroom. The new description therefore indicates that they will learn data skills in the R statistical computing environment.

Consultation:

Professor Distelhorst, CIRHR

Resources:

n/a

Budget Implications: The academic unit will provide the resources required for this course from existing budget.
1 Course Modification:

**ECO204Y1: Microeconomic Theory and Applications (for Commerce)**

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<tr>
<th>Description:</th>
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<tr>
<td>The use of microeconomics to analyze a variety of issues from marketing and finance to organizational structure. Consumer preferences and behaviour; demand, cost analysis and estimation; allocation of inputs, pricing and firm behaviour under perfect and imperfect competition; game theory and public policy, including competition policy. Business cases are used to connect theory and practice and to highlight differences and similarities between economics and accounting, marketing and finance. This course is restricted to students in the Commerce programs.</td>
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<table>
<thead>
<tr>
<th>Rationale:</th>
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<tbody>
<tr>
<td>Making minor edits to course description, correcting typographical errors.</td>
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<tr>
<th>Consultation:</th>
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<tr>
<td>Associate Chair of Undergraduate Affairs and Undergraduate Administrator.</td>
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<th>Resources:</th>
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</table>
2 Course Modifications:

NEW497Y1: Independent Community Engaged Research

Title:
Independent Community Based Engaged Research as Resistance and Social Change

Description:
Explores how a placement-based course in which students gain experience and develop social research is conducted and mobilized professional skills working on projects initiated by marginalized communities as a form of resistance, knowledge mobilization community partners. The accompanying seminar reviews conventional and social change. Examines the foundations of empirical creative interdisciplinary research, methodologies relevant to the role of the university as a site of research activity social purpose sector while supporting students’ participatory and knowledge production and the ethics and methods of community-based research. Informed by examples of grassroots research projects from Black, Indigenous and racialized communities locally, nationally and globally, students engage in community-based and participatory action research projects reflective learning. Not eligible for CR/NCR option.

Rationale:
We have a new Director for our Community Engaged Learning Program this year. He proposed changing the course description to provide more detail about what’s taught in the in-class components of the course which informs the work students do in their community based research projects. There are no resource implications.

Consultation:
The change in course description was discussed and approved at Academic Affairs, our curriculum governing body at New College.

Resources:

NEW498H1: Independent Community Engaged Research

Title:
Independent Community Based Engaged Research as Resistance and Social Change

Description:
Explores how a placement-based course in which students gain experience and develop social research is conducted and mobilized professional skills working on projects initiated by marginalized communities as a form of resistance, knowledge mobilization community partners. The accompanying seminar reviews conventional and social change. Examines the foundations of empirical creative interdisciplinary research, methodologies relevant to the role of the university as a site of research activity social purpose sector while supporting students’ participatory and knowledge production and the ethics and methods of community-based research. Informed by examples of grassroots research projects from Black, Indigenous and racialized communities locally, nationally and globally, students engage in community-based and participatory action research projects reflective learning. Not eligible for CR/NCR option.

Rationale:
We have a new Director for our Community Engaged Learning Program this year. He proposed changing the course description to provide more detail about what’s taught in the in-class components of the course which informs the work students do in their community based research projects. There are no resource implications.

Consultation:
The change in course description was discussed and approved at Academic Affairs, our curriculum governing body at New College.
New College

New College.

Resources:
1 Course Modification:

**TRN410H1: Researching Critical Cases in Contemporary International Relations**

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<th>Description:</th>
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<tr>
<td>This course allows students with majors in International Relations to apply some of the techniques and skills they have developed during their undergraduate careers to an original research project in contemporary international relations history. This course is a chronological historical survey of the world since 1968, as the origin of the present era. Within the chronology, attention is given to major developments/themes that emerged and continue to affect the present day. These include: the rise of China as a power, political dissent, the emergence of terrorism, the environment, energy as major international issues, the neo-liberal economic turn, globalization, the end of the Cold War, the human rights/humanitarian intervention revolution, and key post 2000 developments such as the War on Terror, the decline of the US “unipolar moment,” the 2008 financial crisis and the return in the 2010s of nationalism and protectionism. This course is restricted to students enrolled in the International Relations major program.</td>
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<tr>
<th>Prerequisites:</th>
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<tr>
<td>Previous: Enrolment in the International Relations major program.</td>
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<td>New: TRN250Y1</td>
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<tr>
<th>Corequisites:</th>
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<tr>
<td>Previous: None</td>
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<td>New:</td>
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<tr>
<th>Recommended Preparation:</th>
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<tr>
<td>TRN250Y1, POL208Y1 or HIS344H1 are recommended as preparation or taken concurrently.</td>
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<th>Rationale:</th>
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<tr>
<td>TRN410 is a ‘capstone’ course for all IR majors. It is designed to build on student’s work in the first years of the program, and is designed to be taken after students have completed TRN250. This change will formalize and make plain an assumption that exists in the program and course design, and ensure students are adequately prepared for TRN410.</td>
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<th>Consultation:</th>
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<tr>
<td>This change has been discussed with the Arts &amp; Science Committee of Trinity College.</td>
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<th>Resources:</th>
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4 Course Modifications:

**CDN335H1: Black Canadian Studies**

**Prerequisites:**
- **Previous:** CDN267H1 (formerly UNI267H1), CDN268H1 (formerly UNI268H1)
- **New:**

**Recommended Preparation:**
- **Previous:**
- **New:** CDN267H1 (formerly UNI267H1), CDN268H1 (formerly UNI268H1)

**Enrolment Limits:**
- **Previous:**
- **New:** Priority given to ASSPE0728 (CDN specialist), ASMAJ0728 (CDN major), ASMIN0728 (CDN minor), ASMIN2728 (Asian CDN minor)

**Rationale:**
Housekeeping.

**Consultation:**
Consultation with the UC Curriculum committee

**Resources:**
- **Budget Implications:** The academic unit will provide the resources required for this course from existing budget.

**CDN368H1: Canada's Borders**

**Prerequisites:**
CDN267H1/CDN268H1 or permission of instructor

**Enrolment Limits:**
- **Previous:**
- **New:** Priority given to ASSPE0728 (CDN specialist), ASMAJ0728 (CDN major), ASMIN0728 (CDN minor), ASMIN2728 (Asian CDN minor)

**Rationale:**
The idea is to signal to students that we are flexible in terms of our enrolment in the courses, and that we are open to more than just program students. Many students arrive to CS from unusual pathways, and we want to make sure our courses, and our program, are open to them, even if they don't find our courses until later in their undergraduate studies. The visibility of the program (and for many college programs) is not great in the Calendar and Timetable, so students often don't find our courses until through word-of-mouth in the final years. Adding language 'or with permission of the instructor' also brings the descriptions of these courses in-line with others in the program so that there is more consistency across courses.

**Consultation:**
Consultation with the UC Curriculum committee

**Resources:**
- **Budget Implications:** The academic unit will provide the resources required for this course from existing budget.

**CDN395H1: Independent Study in Asian Canadian Studies**

**Abbreviated Title:**
Independent Study in Asian CDN Studies
University College

Prerequisites:
CDN267H1/CDN268H1 or permission of instructor

Rationale:
The idea is to signal to students that we are flexible in terms of our enrolment in the courses, and that we are open to more than just program students. Many students arrive to CS from unusual pathways, and we want to make sure our courses, and our program, are open to them, even if they don't find our courses until later in their undergraduate studies. The visibility of the program (and for many college programs) is not great in the Calendar and Timetable, so students often don't find our courses until through word-of-mouth in the final years. Adding language 'or with permission of the instructor' also brings the descriptions of these courses in-line with others in the program so that there is more consistency across courses.

Consultation:
Consultation with the UC Curriculum committee

Resources:

Budget Implications: The academic unit will provide the resources required for this course from existing budget.

CDN405H1: The University in Canada

Prerequisites:
CDN367H1/CDN368H1 or permission of instructor

Enrolment Limits:
Previous:
New: Priority given to ASSPE0728 (CDN specialist), ASMAJ0728 (CDN major), ASMIN0728 (CDN minor), ASMIN2728 (Asian CDN minor)

Rationale:
The idea is to signal to students that we are flexible in terms of our enrolment in the courses, and that we are open to more than just program students. Many students arrive to CS from unusual pathways, and we want to make sure our courses, and our program, are open to them, even if they don't find our courses until later in their undergraduate studies. The visibility of the program (and for many college programs) is not great in the Calendar and Timetable, so students often don't find our courses until through word-of-mouth in the final years. Adding language 'or with permission of the instructor' also brings the descriptions of these courses in-line with others in the program so that there is more consistency across courses.

Consultation:
Consultation with the UC Curriculum committee.

Resources:

Budget Implications: The academic unit will provide the resources required for this course from existing budget.