Bachelor of Economics
Department of Economics, Carleton University
Coming Fall 2017

Description
The Department of Economics is excited to announce that we are in the process of transitioning to a new suite of undergraduate programs, leaving the Bachelor of Arts (BA) degree to have our own degree, which will be known as the Bachelor of Economics (BEcon). We feel that this new degree name better reflects the nature of our programs, which are in many ways distinct from the various other BA disciplines, while also being a degree name that will have greater resonance in the labour market, leading to enhanced job opportunities for our graduates.

Beginning in Fall 2017, all new economics students will be admitted into the BEcon. Continuing students who are registered as Economics Majors in the BA at that time will have the option to either continue in their existing BA program or switch into a new BEcon program.

New Additions to Program
For students switching into the BEcon from the BA, it should be noted that there are three key new courses being added to the curriculum: Research Methods in Economics [ECON 3900], Professional Practice of Economics [ECON 3920], and the Honours Capstone Seminar [ECON 4905]. In addition, the current ECON 2201/2202 sequence in introductory statistics will be revised and upgraded to the new ECON 2210/2220 sequence.

Research Methods in Economics is designed to introduce students to the basic tools of economics research, including research proposal, literature review, and model development, together with the concomitant analytical and writing skills.

In conjunction with developing research tools, students will learn about the work of professional economists through the course Professional Practice of Economics. This course is intended both to discuss the ways in which educational experience relates to professional work and to develop oral and written communication skills through individual and team-based problem solving exercises.

The Honours Capstone Seminar, which requires the completion of a research project and major research paper, represents the culmination and the pulling together of all the various skills and experiences gained throughout the program.

Core Honours Requirements
First Year
The 1000 level requirements remain the same as they were in the BA programs, namely: Introduction to Economics [ECON 1000], Elementary Mathematics for Economics I [MATH/ECON 1401] and Elementary Mathematics for Economics II [MATH/ECON 1402].
Second Year
The first change begins with the 2000 level courses, with the creation of Introductory Statistics in Economics [ECON 2210] and Introductory Econometrics [ECON 2220]. Students who have previously taken ECON 2201 [Statistical Methods in Economics and Business I] may use this course in place of ECON 2210 in the BEcon programs. Students who have previously taken ECON 2202 [Statistical Methods in Economics and Business II] may only use this course in place of ECON 2220 in the BEcon programs if they have also completed either Applied Econometrics [ECON 3706] or Econometrics I [ECON 4706]. The remaining 2000 level core courses are: Intermediate Microeconomics I & II [ECON 2020 & 2030], Intermediate Macroeconomics I & II [ECON 2102 & 2103].

Third Year
In the 3rd year, students will normally be expected to complete Research Methods in Economics [ECON 3900], Professional Practice of Economics [ECON 3920], and 2.0 elective credits in 3000 level ECON courses.

Fourth Year
In the 4th year, students will normally be expected to complete the Honours Capstone Seminar [ECON 4905] and 2.0 elective credits in 4000 level ECON courses.

Summary
In total, these courses will amount to 10.5 credits towards the 20 credit Honours program. Students will then have 9.5 credits in electives (courses not included in the Economics Major) in order to complete their degree requirements. These electives may include additional ECON courses up to the limit of free electives allowed for the particular BEcon program.

Concentration Information
Students may choose to add either one or two concentrations to their program. One of the most notable differences in the new BEcon requirements is that many previously core courses under the BA programs will now be included in the new Concentration in Economic Theory.

Economic Theory Concentration
Students who choose to take the Concentration in Economic Theory will complete 4.0 credits in Economic Theory courses: Mathematical Methods of Economics [ECON 3001 – a renumbering of the old ECON 2400], Mathematical Analysis of Economics [ECON 4001], Statistical Analysis of Economics [ECON 4002], Advanced Microeconomic Theory [ECON 4020], Advanced Macroeconomic Theory [ECON 4021], Econometrics I [ECON 4706] and 1.0 credit in elective 4000 level ECON courses.

Computational Analysis Concentration
For students who may be interested in learning about data systems, there is a new Concentration in Computational Analysis. This concentration consists of 4.0 credits: Introduction to Computer Science I [COMP 1005 or 1405], Introduction to Computer Science II [COMP 1006 or 1406], Discrete Structures [COMP 1805], Introduction to Systems Programming [COMP 2401], Abstract Data Types and Algorithms [COMP 2402], Discrete Structures II [COMP 2804] and 1.0 credit from a variety of course choices [COMP 2404, 3005, 3801, 3803, 3804, 4003 or 4111].
Mathematics and Quantitative Economics Concentration

The final new concentration available to students in the BEcon program is the Concentration in Mathematics and Quantitative Economics. This concentration consists of 4.0 credits: Introduction to Mathematical Reasoning [MATH 1800], Elementary Calculus II [MATH 2007], Linear Algebra II [MATH 2107], 1.0 credit in Calculus & Introductory Analysis II [MATH 2000] or 1.0 credit in Intermediate Calculus [MATH 2008], 1.0 credit from select MATH courses [MATH 2454, MATH 3001 and MATH 3107], and 0.5 credit from quantitative courses, [ECON 4004 or MATH 3801, ECON 4005, ECON 4700, ECON 4713, or ECON 4714].

In addition, students may choose from any of our four traditional concentrations: Development, Financial Economics, International Political Economy and Natural Resources, Environment and Economy.

NOTE: Students should be keenly aware that, in transitioning from the BA programs to the BEcon programs, the following existing ECON courses will no longer be offered after the 2016-2017 academic year: ECON 2201, ECON 2202, ECON 4890, ECON 4901, and ECON 4902. Also, although ECON 3706 will be offered in the 2017-2018 academic year, it will not be offered thereafter.

Cooperative Education

Co-op is still available for all Bachelor of Economics programs.

Changing your degree from BA to B.Econ

Students who are currently in the BA General program can more or less freely switch into the BEcon General program – all requirements in the major and the total number of electives remain essentially the same. For students switching from the BA Honours Economics or Applied Economics programs (with or without a concentration) or for those switching from a combined BA Honours program – the switch may imply significant adjustments to program requirements. Refer to summary of program substitutions for more information regarding changes.

Summary of Program Options in the Bachelor of Economics Programs

Bachelor of Economics Honours (20 credits)

Major core requirements:
ECON 1000 or FYSM 1003, ECON/MATH 1401&1402, ECON 2020, 2030, 2102, 2103, 2210, 2220, ECON 3900, 3920, ECON 4905. Refer to Note 3 for course titles.

Major requirements – elective Economics courses at specified level:
2.0 credits in ECON courses at the 3000 level and 2.0 credits in ECON courses at the 4000 level.

Elective credits not included in major cgpa:
9.5 credits of which up to 4.5 credits may be in ECON courses.
Bachelor of Economics Honours with a Concentration (20 credits)
Major core requirements:
ECON 1000 or FYSM 1003, ECON/MATH 1401&1402, ECON 2020, 2030, 2102, 2103, 2210, 2220, ECON 3900, 3920, ECON 4905. Refer to Note 3 for course titles.

Major requirements of elective Economics courses at specified level:
1.0 credit in ECON courses at the 3000 level and 1.0 credit in ECON courses at the 4000 level.

Credits in Concentration courses:
4.0 credits required. Note 1 lists available concentrations.

Elective credits not included in major cgpa:
7.5 credits of which up to 3.5 credits may be in ECON courses

Bachelor of Economics Honours with Concentrations (20 Credits)
Major core requirements:
ECON 1000 or FYSM 1003, ECON/MATH 1401&1402, ECON 2020, 2030, 2102, 2103, 2210, 2220, ECON 3900, 3920, ECON 4905. Refer to Note 3 for course titles.

Major requirements of elective Economics courses at specified level:
None taken.

Credits in Concentration courses:
4.0 credits required in concentration 1 and 4.0 credits required in concentration 2. Note 1 lists available concentrations.

Elective credits not included in major cgpa:
5.5 credits of which up to 2.5 credits may be in ECON courses.

Bachelor of Economics Honours with a Double Major (20 Credits)
Major core requirements:
ECON 1000 or FYSM 1003, ECON/MATH 1401&1402, ECON 2020, 2030, 2102, 2103, 2210, 2220, ECON 3900, 3920, ECON 4905

Major requirements of elective Economics courses at specified level:
1.0 credit in ECON courses at the 3000 level or 4000 level.

Remaining requirements:
12.5 credits which must cover major requirements of second discipline. Remaining credit balance will pertain to electives to complete the 20 credit requirement for the degree. Refer to note 2 regarding double major requirements.
Note 1
Concentrations include: Computational Analysis; Development; Economic Theory (recommended for graduate school in Economics); Financial Economics; International Political Economy; Mathematics and Quantitative Economics; and Natural Resources, Environment and Economy.

Note 2
Students may combine any major permitted under the BA Combined Honours programs provided they qualify for admission to the BEcon Honours program. Students may also combine Economics with the Bachelor of Journalism or the Bachelor of Humanities if they are first admitted to the latter programs. Course and program descriptions can be found in the Undergraduate Calendar. Website address http://calendar.carleton.ca/undergrad/

Note 3
Courses include: Introduction to Economics; Elementary Mathematics for Economics; Intermediate Microeconomics; Intermediate Macroeconomics; Introductory Statistics; Introductory Econometrics; Research Methods in Economics; Professional Practice of Economics; and Honours Capstone Seminar.

Summary of program substitutions

BA General Economics
There are no changes to the core requirements: ECON 1000 or FYSM 1003, ECON/MATH 1401, ECON/MATH 1402, ECON 2020, 2102, 2030, 2103

Substitution 1
ECON 2210 (new course) may be used as ECON 2201 (old course) in the BA programs and ECON 2201 may be used in the B. Econ programs as ECON 2210. These courses will be interchangeable.

Substitution 2
ECON 2202 (old course) may be used in place of ECON 2220 in B. Econ programs only when a student has also taken either ECON 3706 or 4706. ECON 2220 (new course) may be used in BA programs in place of ECON 2202.

Other Substitutions
Students may use new courses in the appropriate 3000 level or 4000 level requirement of the BA General Economics major requirements.

BA Honours Economics major
There are no changes to the core requirements: ECON 1000 or FYSM 1003, ECON/MATH 1401, ECON/MATH 1402, ECON 2020, 2102, 2030, 2103

Substitution 1
ECON 2210 (new course) may be used as ECON 2201 (old course) in the BA programs and ECON 2201 may be used in the B. Econ programs as ECON 2210. These courses will be interchangeable.
Substitution 2
ECON 2202 (old course) may be used in place of ECON 2220 in B. Econ programs only when a student has also taken either ECON 3706 or 4706. ECON 2220 (new course) may be used in BA programs in place of ECON 2202.

Substitution 3
Students remaining in the BA program will use ECON 3900 and 4905 (both new courses) to fulfill ECON 4901 and 4902 requirements if they choose to remain in the BA Economics major once these courses are discontinued. Students who change to the B. Econ program may use ECON 4901 & 4902 to fulfill the ECON 3900 and 4905 requirement in the B. Econ program.

Additional Information
Students who change to the B. Econ program will need to take ECON 3920 which is a new course required in the B. Econ program. Students who remain in the BA Economics and choose to take ECON 3920 will normally have the course count towards the 0.5 credit in 3000 level course requirement.

BA Honours in Applied Economics major
There are no changes to the core requirements: ECON 1000 or FYSM 1003, ECON/MATH 1401, ECON/MATH 1402, ECON 2020, 2102, 2030, 2103

Substitution 1
ECON 2210 (new course) may be used as ECON 2201 (old course) in the BA programs and ECON 2201 may be used in the B. Econ programs as ECON 2210. These courses will be interchangeable.

Substitution 2
ECON 2202 (old course) may be used in place of ECON 2220 in B. Econ programs only when a student has also taken either ECON 3706 or 4706. ECON 2220 (new course) may be used in BA programs in place of ECON 2202.

Substitution 3
Students remaining in the BA Honours Applied Economics program may use ECON 4905 in place of ECON 4890 – students will have to also take ECON 3900 which will be used towards the credit requirement of courses in the 3000 level of Economics. Students who change to the B. Econ program may use ECON 4890 in place of ECON 4905 provided that they have completed ECON 3900.

Advice about changing program
Depending upon how far along you are in your current program, you may have to complete one or more additional courses if you decide to switch from a BA program to a BEcon program. Please refer to summary of program substitutions.