ECONOMICS - STATISTICS MAJOR
Undergraduate Requirement Check List

General Notes

1) **This is a check list for your convenience only. It does not replace the bulletin. For details regarding the requirements below, <u>you must consult the bulletin</u>.**

2) **You must receive a grade of C- or higher in any class taken for major credit. The ONLY exception is UN1105 Principles which you may take Pass/D/Fail and must receive a "P" grade for it to count towards the major. If you have taken a required class P/D/F, then you will be required to uncover the P. <u>After receiving a P, you may not retake a course for a letter grade</u>.**

3) **You must have all <mark>transfer credits</mark> for economics classes approved by the Economics department. For information on what transfer courses will be accepted and how to obtain approval for transfer credits in economics, math and statistics, go to: http://econ.columbia.edu/transfer-credit-information.**

4) **<mark>Econ and Math AP/IB/GCE Credits</mark> - CC Students: said credits must appear in your SSOL transcript in order for the department to credit you with the completion of those core courses (*ECON UN1105, MATH UN1101-UN1102*). GS Students: Said credits must be noted in your student file in order for the department to credit you with the completion of those core courses.**

5) **You will <u>not</u> receive major credit for a course taken before the completion of its pre-requisites.**

A. <mark>ECONOMICS Requirements</mark>

I. Core Courses
Students may <u>not</u> take any of the core economics courses concurrently with a senior seminar in economics. You must complete all of these courses at least one semester before your planned graduation date. If you are planning to take any of these courses in your penultimate semester, then you <u>must</u> write to the DUS for specific permission to do so. You may not take any of the Barnard core economics classes to replace any of the classes listed below.

_____ UN1105 **Principles of Economics** *or* AP credits (you must have a grade of 9 or 10 on the AP exam) *or* IB credits (6 or 7 on the higher level exam). *No Prerequisites.*

_____ UN3211 **Intermediate Microeconomics** *(Pre-reqs: ECON UN1105; MATH UN1201or UN1205 or UN1207)*

_____ UN3213 **Intermediate Macroeconomics** *(Pre-reqs: ECON UN1105 and MATH UN1101; **<u>Co-Req</u>**: MATH UN1201, or UN1205, or UN1207)*

_____ UN3412 **Introduction to Econometrics** *(Pre-reqs: ECON UN3211 or UN3213; MATH UN1201 or UN1205 or UN1207; STAT UN1201)*

List any **departmental approved substitution(s)**, including transfer credits, for above requirements.

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II. Electives

You must take **3** electives in economics at the 3000 level or above. All electives in the department at the 3000 or 4000 level require BOTH ECON UN3211 and UN3213 as pre-requisites (and some have additional pre-requisites). Please consult the bulletin for pre-requisites for Barnard elective courses.

Rules for Barnard Electives, Transfer and AP Credits:

The joint major with Statistics must take a minimum of **7** lecture courses in economics (this count does not include courses in math and statistics). Students are required to take a **minimum of 5 lecture courses in the department**. Credits from *Barnard 3000 level electives*, *departmental approved transfer credits*, and *AP /IB/GCE)* may be used to fulfill the requirements for the remaining **2** lecture courses.

List number of courses taken in the Economics Department: _____(*minimum = 5***)**

	Course No.	Title
1)	_____	_____
2)	_____	_____
3)	_____	_____

III. Seminar
Students must take ECON GU4918 *Seminar in Econometrics*.

List any **approved substitution(s)**, including transfer credits, for above requirements.
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B. STATISTICS Requirements (Please consult with the **Statistics department**)

I. Required Courses
      _____ STAT UN1201 (*W1211*) Intro to Statistics (with *calculus prerequisite*)
      _____ STAT GU4203 (*W3105*) Intro to Probability
      _____ STAT GU4204 (*W3107*) Intro to Statistical inference
      _____ STAT GU4205 (*W3315*) Linear Regression models

II. Elective Courses

One elective in statistics from among courses numbered STAT GU4206 through GU4266:

_____ _____
Course no.   Course Title

C. OTHER Requirements

I. Math Requirement

One of the following sequences:

- _____ MATH UN1101 Calculus I (or AP credits)
  MATH UN1102 Calculus II (or AP credits)
  MATH UN1201 Calculus III <u>or</u> MATH UN1205 Accelerated Multivariable Calculus
  MATH UN2010 Linear Algebra

- _____ MATH UN1207 Honors Math
  MATH UN1208 Honors Math

II. Computer Science Requirement

<u>One</u> of the following:

_____ COMS UN1004 Intro to Computer Science and programming in Java

_____ COMS UN1005 Intro to Computer Science and programming in MATLAB

_____ COMS UN1007 Honors Introduction to Computer Science

_____ ENGI E1006 Intro to Computing for Engineers and Applied Scientists (*New*)

_____ STAT UN2102 Applied Statistical Computing

Students who have questions about any of the above requirements should first consult the bulletin or the online **page** at: https://econ.columbia.edu/undergraduate/student-information/faq/

If after consulting the bulletin and the FAQ page you still have questions, then contact: econ-advising@columbia.edu.