

ECONOMICS - STATISTICS MAJOR
Undergraduate Requirement Check List

Important Notes

- 1) This is a check list for your convenience only - it does not replace the bulletin. For details regarding the requirements below you must consult the bulletin.
- 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**. After receiving a P, you may not retake a course for a letter grade.
- 3) You must have all **transfer credits** 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) **ECON and Math AP/IB/GCE Credits:** CC Students: said credits must appear in your SSOL transcript. GS Students: said credits must be confirmed in writing by your school advisor or included on your transfer credit submission to the department.
- 5) High school math and IB math *Standard-level* exam that exempt students from MATH UN1101, but do not grant college credits must have those missing credits replaced by taking an **additional course** – for details, go to: <https://econ.columbia.edu/undergraduate/requirements-and-forms/>
- 6) You will not receive major credit for a course taken before the completion of its pre-requisites.
- 7) If you have questions about the requirements for the Statistics half of the joint majors then you should speak directly with an advisor in the Statistics Department.

A. ECONOMICS Requirements

I. Core Courses

- Students may not 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 must 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

Taken	Course	Prerequisites
	UN 1105 Principles of Economics	None
	UN 3211 Intermediate Micro	ECON UN 1105 and MATH UN 1201
	UN 3213 Intermediate Macro	ECON UN 1105 and MATH UN 1101 Corequisite: MATH UN 1201
	UN 3412 Econometrics	ECON UN 3211 or ECON 3213, MATH UN 1201 and STAT UN 1201

List any **exam credits** (AP, IB etc) or **department approved substitution(s)** (e.g. transfer credits) for the above

II. Electives

Three elective courses in Economics are required.

- At Columbia only elective courses taken from either the Columbia or Barnard Economics Department may be used to fulfill the elective requirement.
- All electives must be at the 3000 level or higher.
- All electives in the Economics Department at the 3000 or 4000 level require BOTH UN 3211 and UN 3213 as prerequisites (and some have additional pre-requisites). Prerequisites can be found at [Course Prerequisites | Department of Economics at Columbia University](#)
- Senior Seminars do not count as electives.

Course Number	Course Title

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

Required Number of Courses Taken in the Columbia Department of Economics:

All Economics Joint Majors are required to take a **minimum of 5 lecture courses in the department**. These 5 lectures courses will include both economics core and elective lecture courses. In addition, students must take their senior seminar in the department.

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

III. Seminar

You must take **ECON GU4918** Seminar in Econometrics.

- The prerequisites for the seminar are ECON UN3211, ECON UN3213, and ECON UN3412.
- This seminar is typically **only offered** in the **Spring** semester.
- Students planning to **graduate early**, must complete all of these prerequisites no later than Fall of their junior year in order to register in the Spring for this senior seminar.

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.

B. STATISTICS Requirements

Please consult with an advisor in the Statistics Department if you have questions about these requirements.

I. Required Courses

Taken	Course Name and Number
	STAT UN1201 Calc Based Intro to Statistics
	STAT GU4203 Intro to Probability
	STAT GU4204 Intro to Statistical inference
	STAT GU4205 Linear Regression models

II. Elective Courses

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

Taken	Course Name and Number

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

C. OTHER Requirements**I. Math Requirement**

One of the following sequences:

Taken	Course Name and Number
	MATH UN 1101 Calculus I MATH UN 1102 Calculus II MATH UN 1201 Calculus III or MATH UN 1206 Accelerated Multivariable Calculus MATH UN 2010 Linear Algebra
	MATH UN 1207 Honors Math A MATH UN 1208 Honors Math B

II. Computer Science Requirement

One of the following:

Taken	Course Name and Number
	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
	STAT UN2102 Applied Statistical Computing

List any **exam credits** (AP, IB etc) or **department approved substitution(s)** (e.g. transfer credits) for the above