# ECONOMICS-MATHEMATICS MAJOR Undergraduate Requirement Check List

	Personal information				
Last Name	Given name				
Preferred name	UNI				
☐ Columbia Colle	ge School of General Studies				
☐ Dual degree pro	ogram:				
<b>General Notes</b>					
	eck list for your convenience only. It does not replace the <u>bulletin</u> . For details regarding the ts below <u>you must consult the bulletin</u> .				
UN1105 Pr towards the	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.				
information	ave all transfer credits for economics classes approved by the economics department. For a on what transfer courses will be accepted and how to obtain approval for transfer credits es, math and statistics, go to: <a href="http://econ.columbia.edu/transfer-credit-information">http://econ.columbia.edu/transfer-credit-information</a> .				
in order for MATH UN	4) Econ and Math AP/IB/GCE Credits - CC Students: said credits must appear in your SSOL transcription 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>no</u>	t receive major credit for a course taken before the completion of its pre-requisites.				
	Please complete this form for approval by a Math department adviser early in the semester of the expected graduation date; attach copies of emails approving transfers/substitutions/electives.				
ECONOMICS Reg	<u>uirements</u>				
	rses rses must be completed by the spring semester of your junior year. You may only take a core g your senior year with written approval of the economics department.				
UN1105 <b>Principles of Economics</b> <i>or</i> AP credits (you must have a grade of 9 or 10 on the AP exam) <i>or</i> IB credits (6 or 7 on the higher level exam)					
	3211 Intermediate Microeconomics (Pre-reqs: ECON UN1105; MATH UN1201or UN1205 or UN1207) 3213 Intermediate Macroeconomics (Pre-reqs: ECON UN1105 and MATH UN1101; <u>Co-Req</u> : MATH UN1201, or UN1205, or UN1207)				
	3412 Introduction to Econometrics (Pre-reqs: ECON UN3211 or UN3213; MATH UN1201 UN1205 or UN1207; STAT UN1201)				
List any <u>de</u> r	List any <u>departmental approved substitution</u> (s), including transfer credits, for above requirements.				

#### **II. Electives**

You must take  $\underline{3}$  electives in economics at the 3000 level or higher. All electives in the department at the 3000 or 4000 level require BOTH UN3211 and UN3213 as pre-requisites (and some have additional pre-requisites). See the bulletin for information regarding which courses count as economics electives. Please consult the bulletin for pre-requisites for Barnard elective courses.

	Course No.	<u>Title</u>			
1)					
2)					
3)					
	D.	L C D LEL C T C LAD C P			
	<u>Ku</u>	les for Barnard Electives, Transfer and AP Credits:			
not in the de	clude courses in math a epartment. Credits from	natics must take a minimum of 7 lecture courses in economics (this count does and statistics). Students are required to take a <b>minimum of 5 lecture courses in</b> in <i>Barnard 3000 level electives, departmental approved transfer credits, and</i> fulfill the requirements for the remaining 2 lecture courses.			
List n	List number of courses taken in the Economics Department: (minimum = 5)				
III. S	eminar				
Politi	cal Economy. Barnard the following pre-requis	owing: ECON GU4911 <i>Micro</i> , GU4913 <i>Macro</i> , GU4918 <i>Econometrics</i> , GU4921 seminars are <i>not</i> allowed to be taken to fulfill this requirement. All seminars sites: UN3211, UN3213 and UN3412. GU4921 has an additional prerequisite of			
List a	ny <b>approved substitut</b> i	ion(s), including transfer credits, for above requirements.			

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

If after consulting the bulletin and the FAQ page you still have questions, then contact: <a href="mailto:econ-advising@columbia.edu">econ-advising@columbia.edu</a>.

## **MATH-STAT Requirements**

Calc AP Credits			
0 Credits 3 Credits:	a score of 4 or 5 on the AP Calculus AB exam, a 4 on the AP Calculus E Mathematics: analysis and approaches HL exam, upon completion of eit with a grade of C or higher.	her Calculus 2 or Ca	lculus 3
6 Credits:	a score of 5 on the AP Calculus BC exam or 7 on the IB Mathematics: a exam, upon completion of Calculus 3 or Accelerated Multivariable Calchigher.		
Other, explain:			
	P credits are correctly registered in SSOL; otherwise consult with your Corevious College-level work.	C/GS advisor.	
	Placement		
matching AP o	ons (see Placement) students may be allowed to place out of Calculus 1 are transfer credits. In this case the missing credits have to be replaced by an Math UN2000). If applicable, explain:		
For questions of Director.	n AP, transfer and placement for Calculus and Linear Algebra courses, p	lease consult the Calo	culus
	Calculus and Linear algebra sequence		
	lculus II + [Calculus III <i>or</i> Accelerated multivariable calculus] + Linear at A + Honors Math B	Algebra	
Code	Course name	Term	Grade
	Analysis requirement		
Math UN2500	Analysis and Optimization		
Code	Course name	Term	Grade

#### **Statistics requirement**

Stat GU4001 <i>or</i> [Stat GU4203 + Stat GU420
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Code	Course name	Term	Grade

Note: if you take GU4203-4024, GU4203 also counts as one of three electives.

#### **Electives**

Three courses selected from: Math UN1202, Math UN2030, approved Math 3000+ courses<sup>1</sup>.

Code	Course name	Term	Grade

Note: if you take Math UN1205 for multivariable calculus, you may not use as elective nor receive credit for Math UN1202.

#### Transfer

If applicable, please enter here courses taken at another institution used to fulfill a major requirement.

All transfers have to be approved by departmental advisor(s) (Calculus director for Calc/Linear algebra/ODEs). For study abroad, consult your departmental advisor in advance of registration.

Please verify that transfer credits are correctly entered in SSOL, and check with you CC/GS advisor regarding transfer credit limits.

Code	Course name	Institution	Term Grade

### **Grading**

No course with a grade of D or lower can count toward the major, with the exception of: a P for the first course taken in the major; any sporadic exception allowed by the COI ((P in any class in SP20; one P in F20, SP21, F21; two Ps in SP24).

<sup>1</sup> MATH 395x seminars and GR 5000 or above courses require explicit prior approval from a major advisor.

### **Double-Counting**

See Departmental Major/double-counting. Calculus I to IV/Accelerated Multivariable Calc/Honors Math A-B/Stat 1201/COMS 1004 ('introductory courses') may be freely double-counted with another program (second major, or concentration/minor). In addition to these, a maximum of two courses may be double-counted, subject to approval of all concerned departmental advisors (Math+Econ+department(s) offering the second program). If applicable, record here non-introductory courses claimed for double-counting.

Code	Course name	Second program	Term	Grade		
	Additional comments and information (if needed)					

Last revised: September 2025