# ECONOMICS-MATHEMATICS MAJOR Undergraduate Requirement Check List

		Personal information
Last N	lame	Given name
Prefer	red name	UNI
□ Col	umbia Colle	ge School of General Studies
□Dua	al degree pro	gram:
Genera	al Notes	
1)		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> .
2)	UN1105 Pri towards the	eceive a grade of C- or higher in any class taken for major credit. The ONLY exception is nciples which you may take Pass/D/Fail and must receive a "P" grade for it to count major. If you have taken a required class P/D/F, then you will be required to uncover the reiving a P, you may not retake a course for a letter grade.
3)	information	ave all transfer credits for economics classes approved by the economics department. For on what transfer courses will be accepted and how to obtain approval for transfer credits s, math and statistics, go to: <a href="http://econ.columbia.edu/transfer-credit-information">http://econ.columbia.edu/transfer-credit-information</a> .
4)	in order for <i>MATH UN1</i>	the department to credit you with the completion of those core courses (ECON UN1105, 101-UN1102). GS Students: Said credits must be noted in your student file in order for the to credit you with the completion of those core courses.
5)	You will not	receive major credit for a course taken before the completion of its pre-requisites.
6)		olete this form for approval by a Math department adviser early in the semester of the aduation date; attach copies of emails approving transfers/substitutions/electives.
ECON	OMICS Req	<u>uirements</u>
	I. Core Cou	rses must be completed by the spring semester of your junior year. You may only take a core
	course during	g your senior year with written approval of the economics department.
	UN	1105 <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)
	UN	3211 Intermediate Microeconomics (Pre-reqs: ECON UN1105; MATH UN1201or UN1205 or UN1207)
	UN	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 N1205 or UN1207; STAT UN1201)
	List any dep	artmental approved substitution(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	number of courses take	en 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:	Mathematics: analysis and approaches HL exam, upon completion of eit with a grade of C or higher.	ther Calculus 2 or C	calculus 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:			
	AP credits are correctly registered in SSOL; otherwise consult with your Corrections College-level work.	CC/GS advisor.	
	Placement		
matching AP (course(s) (e.g.	ons (see Placement) students may be allowed to place out of Calculus 1 as transfer credits. In this case the missing credits have to be replaced by a Math UN2000). If applicable, explain:	n additional approv	ed
For questions of Director.	on AP, transfer and placement for Calculus and Linear Algebra courses, p	lease consult the Ca	ılculus
	Calculus and Linear algebra sequence		
	alculus II + [Calculus III <i>or</i> Accelerated multivariable calculus] + Linear h 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 GU4204	ŀ]	
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Code	Course name	Term	Grade
Note: if you tak	xe GU4203-4024, GU4203 also counts as one of three electives.		

#### **Electives**

Three courses selected from: Math UN1202, Math UN2030, approved Math 3000+ courses.

Code	Course name	-	Гегт	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).

### **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
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	Additional comments and infor	mation (if needed)		

Last revised: December 2024