ECONOMICS-MATHEMATICS MAJOR Undergraduate Requirement Check List

| | | Personal | information | |
|--------|---------------------------------|--|---|---|
| Last N | lame | | Given name | |
| Prefer | red name | | UNI | |
| □Col | umbia Colle | ge | ☐ School of G | eneral Studies |
| □Dua | al degree pro | gram: | | |
| Genera | al Notes | | | |
| 1) | | ck list for your convenience only. ts below <u>you must consult the bull</u> | | e the <u>bulletin</u> . For details regarding the |
| 2) | UN1105 Printowards the | nciples which you may take Pass/l | D/Fail and must re ed class <mark>P/D/F</mark> , the | en you will be required to uncover the |
| 3) | information | | ccepted and how | ved by the economics department. For to obtain approval for transfer credits u/transfer-credit-information. |
| 4) | in order for <i>MATH UN1</i> | the department to credit you with | the completion of credits must be no | must appear in your SSOL transcript f those core courses (<i>ECON UN1105</i> , ted in your student file in order for the ses. |
| 5) | You will <u>not</u> | receive major credit for a course | taken before the c | completion of its pre-requisites. |
| 6) | _ | olete this form for approval by a Maduation date; attach copies of em | - | dviser early in the semester of the nsfers/substitutions/electives. |
| ECON | OMICS Requ | <u>uirements</u> | | |
| | You must corplanning to ta | y <u>not</u> take any of the core economics mplete all of these courses at least cake any of these courses in your pernission to do so. You may not take a | ne semester before ultimate semester, | tly with a senior seminar in economics. your planned graduation date. If you are then you <u>must</u> write to the DUS for core economics classes to replace any of |
| | UN | 1105 Principles of Economics or A 10 on the AP exam) or 1 | | |
| | UN3 | 3211 Intermediate Microeconomic or UN1207) | e s (Pre-reqs: ECON | N UN1105; MATH UN1201or UN1205 |
| | UN3 | 3213 Intermediate Macroeconomi | | N UN1105 and MATH UN1101; VN1201, or UN1205, or UN1207) |
| | | 3412 Introduction to Econometric N1205 or UN1207; STAT UN1201) | s (Pre-reqs: ECON | UN3211 or UN3213; MATH UN1201 |

List any <u>departmental approved substitution(s)</u>, including transfer credits, for above requirements.

II. Electives

You must take <u>3</u> 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) | | <u></u> |
| 3) | | |
| | | |
| | <u>R</u> | ules for Barnard Electives, Transfer and AP Credits: |
| not in the de | clude courses in math epartment. Credits fro | matics must take a minimum of 7 lecture courses in economics (this count does and statistics). Students are required to take a minimum of 5 lecture courses in om <i>Barnard 3000 level electives, departmental approved transfer credits, and</i> of fulfill the requirements for the remaining 2 lecture courses. |
| List r | number of courses tal | ken in the Economics Department:(minimum = 5) |
| | eminar | |
| Politi | cal Economy. Barnar the following pre-requ | llowing: ECON GU4911 <i>Micro</i> , GU4913 <i>Macro</i> , GU4918 <i>Econometrics</i> , GU4921 <i>d</i> seminars are <i>not</i> allowed to be taken to fulfill this requirement. All seminars isites: UN3211, UN3213 and UN3412. GU4921 has an additional prerequisite of |
| List a | ny approved substit u | ation(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: 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.

MATH-STAT Requirements

| | | Calc AP Credits | | |
|-----|-----------------|---|------------------|---------------|
| | | a score of 4 or 5 on the AP Calculus AB exam, a 4 on the AP Calculus B Mathematics: analysis and approaches HL exam, upon completion of eith with a grade of C or higher. | her Calculus 2 o | or Calculus 3 |
| | 6 Credits: | a score of 5 on the AP Calculus BC exam or 7 on the IB Mathematics: at exam, upon completion of Calculus 3 or Accelerated Multivariable Calculus higher. | | |
| | Other, explain: | | | |
| | • | P credits are correctly registered in SSOL; otherwise consult with your C Previous College-level work. | C/GS advisor. | |
| | | Placement | | |
| mat | ching 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: | | |
| | questions o | n AP, transfer and placement for Calculus and Linear Algebra courses, pl | ease consult the | Calculus |
| | | Calculus and Linear algebra sequence | | |
| | | lculus II + [Calculus III <i>or</i> Accelerated multivariable calculus] + Linear An A + Honors Math B | Algebra | |
| Coc | le | Course name | Term | Grade |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | Analysis requirement | | |
| Mat | h UN2500 | Analysis and Optimization | | |
| Coc | le | Course name | Term | Grade |

| Stat GU4001 | or [Stat GU4203 + Stat GU4204] | | | |
|----------------------------|---|--|-------------------------|---------|
| Code | Course name | | Term | Grade |
| | | | | |
| | | | | |
| Note: if you t | take GU4203-4024, GU4203 also co | ounts as one of three electives. | | |
| | | Electives | | |
| Three course | s selected from: Math UN1202, Ma | th UN2030, approved Math 3000+ co | ourses. | |
| Code | Course name | | Term | Grade |
| | | | | |
| | | | | |
| | | | | |
| UN1202. | take Math UN1203 for multivariable | e calculus, you may not use as electiv Transfer | ve nor receive credit i | or Main |
| | | Transier | | |
| All transfers study abroad | have to be approved by departmenta, consult your departmental advisor | another institution used to fulfill a magal advisor(s) (Calculus director for Cain advance of registration. Intered in SSOL, and check with you Canada and you cana | alc/Linear algebra/OI | ŕ |
| Code | Course name | Institution | Term | Grade |
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Statistics requirement

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 (one P in F23; two Ps in SP24).

Grading

Double-Counting

See Departmental Major/double-counting. Calculus I to IV/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 commen | ts and information (if needed) | | |
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Last revised: August 2024