Progress Toward Completion of the Mathematics Major

Economics Concentration

Arts and Sciences students may be admitted to the math major after successfully completing a semester of multivariable calculus, a semester of linear algebra, and a 3- or 4-credit computer programming course. Visit math.cornell.edu/major for more information.

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<tr>
<th>Student’s Name</th>
<th>Net ID</th>
<th>Faculty Advisor</th>
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Courses needed to complete the major

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Math majors must complete 9 courses for the major, as described in items 1–3 below, with a minimum grade of C−. MATH courses numbered 5000–5999 do not count. No course may be used to satisfy more than one requirement.

_____ At least two of the MATH courses taken must be at the 4000 level (or above).

1. Two Courses in Algebra. (___ transfer credit applied, see reverse)
   - MATH 3320  Introduction to Number Theory
   - MATH 3340* Abstract Algebra
   - MATH 3360* Applicable Algebra
   - MATH 4310* Linear Algebra
   - MATH 4315* Linear Algebra with Supplements
   - MATH 4330* Honors Linear Algebra
   - MATH 4340* Honors Introduction to Algebra
   - MATH 4370  Computational Algebra
   - MATH 4500  Matrix Groups
   - MATH 4560  Geometry of Discrete Groups

2. Two Courses in Analysis. (___ transfer credit applied, see reverse)
   - MATH 3110* Introduction to Analysis
   - MATH 3210  Manifolds & Differential Forms
   - MATH 3230* Introduction to Differential Equations
   - MATH 4130* Honors Intro Analysis I
   - MATH 4140  Honors Intro Analysis II
   - MATH 4180* Complex Analysis
   - MATH 4200* Differential Equations and Dynamical Systems
   - MATH 4210* Nonlinear Dynamics and Chaos [also MAE 5790]
   - MATH 4220* Applied Complex Analysis
   - MATH 4250  Numerical Analysis and Differential Equations [also CS 4210]
   - MATH 4260  Numerical Analysis: Linear & Nonlinear Equations [also CS 4220; co-meets w/CS 5223]

*Forbidden Overlaps: Due to an overlap in content, students will receive credit for only one course in each group:

(1) MATH 3110, 4130; (2) MATH 3230, 4280; (3) MATH 3340, 3360; (4) MATH 3340, 4340; (5) MATH 4180, 4220; (6) MATH 4200, 4210;
(7) MATH 4310, 4315, 4330; (8) MATH 4710, ECON 3130, BTRY 3080; (9) MATH 4720, ECON 3130, BTRY 4090; (10) MATH 4810, 4860.
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9. MATH 4720, ECON 3130, BTRY 4090;
10. MATH 4810, 4860.

_____ MATH 4280* Introduction to Partial Differential Equations
3. **Concentration in Economics.** (___ transfer credit applied, see below)

Five additional courses from (vii), (viii) and (ix) below.

(vii) At least one MATH course numbered 3000 or above:

(Enter course numbers here)

(viii) At least three ECON courses with significant mathematical content.

(Enter course numbers here)

(ix) Courses in ORIE with significant mathematical content dealing with material of interest in economics.

(Enter course numbers here)

**Transfer Credit / Study Abroad Courses Applied to the Major**

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<th>Course Number &amp; Title</th>
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