

**The Ohio State University
Colleges of the Arts and Sciences
College of Mathematical and Physical Sciences**

Mathematics Minor (Math, 265)

Department of Mathematics
250 Mathematics Building, 231 West 18th Avenue
Columbus, OH 43210-1174
614-292-6994; <http://www.math.ohio-state.edu>

Mathematical methods are used today in the social sciences as well as the physical and biological sciences. A minor program in mathematics is a useful supplement to a major program in many widely differing areas. The Mathematics Department has a list of suggested electives to complement various major programs (see below).

If you complete the minor following these guidelines, you then need the approval of the coordinating adviser in the Department of Mathematics, 250 Mathematics Building.

1. Required courses

- A. Calculus: 254 (or the accelerated or honors courses)
- B. Foundations of Higher Mathematics: 345 or H190.
Math 366 can fulfill this requirement **only** if it is required for the student's major.
- C. Linear Algebra: 568 or 571 or H520

2. Elective courses (as necessary to reach 20 credit hours)

To reach the 20 hour minimum (at least 15 hours must be in math), students may select courses from the following:

- Differential Equations: 255 or 415 or H521
- Any 500 level Math course, excluding Math 532 or 588
- Math 601, 602, 603.02, 606, 607, 618, 647, 648, 649, 665, 666, 701
- Statistics 420, 421, or 610

Suggested Course Options for Various Majors

Target: Atmospheric Science -- Math 255 or 415 or H521, 512, 572, 606, 530, Stat 420, 421, or 610

Target: Biology or Pre-Med—Math 255 or 415 or H521, 512, 530, 578, Stat 420, 421 or 610

Target CIS or CSE—Math 566, 572, 575, 578, 547, 548, 549, 580, 581, 582, H590, H591, H592, 647, 648, 649, 607

Target: Economics—Math 255 or 415 or H521, 547, 548, 549, 572, 618, 530, Stat 420, 421 or 610

Target: Engineering—Math 255 or 415 or H521, 512, 513 or 551, H540, H541, 572

Target: Finance or Accounting—Math 255 or 415 or H521, 618, 530, Stat 420, 421 or 610

Target: Mathematical History—Math 504, 507, and/or H576, H577

Target: Philosophy—Math 647, 648, 649

Target: Physics—Math 514 or H522, H540, H541, 547, 548, 549, 572, 601, 602, 603.02, 701

3. Restrictions

--*Courses used to fulfill a student's major requirements **may not** be used towards the 20 hour minimum; such courses may be used to fulfill the requirements in part I, with zero hours counting toward the minor.*

--Math H487, 593, or 693 may not be used on a minor.

Arts and Sciences minor program guidelines

The following guidelines govern this minor.

Required for graduation No

Credit hours required A minimum of 20 at 200 level or above.

Transfer credit hours allowed A maximum of 10

Overlap with the GEC Permitted

Overlap with the major Not allowed and

- The minor must be in a different subject than the major.
- The same courses cannot count on the minor and on the major.

Overlap between minors Each minor completed must contain 20 unique hours.

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.

Approval required The minor program description sheet indicates if the minor course work must be approved by:

- The academic unit offering the minor

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by:

- The academic unit offering the minor