

## Courses

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Click [here](#) for a directed graph showing the dependency structure of the courses for most math majors.

## Calculus at Binghamton

### Overview

The Mathematics Department at Binghamton offers a three semester sequence in Calculus (Math 224/225, Math 222 and Math 323), as well as a course in Calculus designed for business majors (Math 220). Students who want to take Math 224/225 or Math 220 must pass the Calculus Placement Test, which covers basic precalculus mathematics. Those students who require more background before taking Math 224/225 or Math 220 can take our Precalculus course, Math 108. There is no placement exam requirement to take Math 108.

Here are some more details, and links for further information:

- [Introduction to Calculus \(Math 223\)](#) This is an introductory course in preparation for Math 224 “Differential Calculus”. This is a 2 credit (half semester) course covering precalculus, limits, rates of change, and the derivative. This course is only offered in the fall. The prerequisite is a passing grade on the [Placement Test](#).
- [Calculus I \(Math 224/225\)](#) This is the first course in Calculus, covering limits, differentiation, and integration. Starting in Fall 2015 this course will be split into two half-semester courses, Math 224 “Differential Calculus” and Math 225 “Integral Calculus”. The prerequisite for Math 224 is a passing grade on the [Placement Test](#) or a grade of a C- or better in Math 223 (Introduction to Calculus). The prerequisite for Math 225 is a grade of a C- or better in Math 224.
  - [The Placement Test](#) A passing grade on this test is a prerequisite for Math 224, Math 223, or Math 220. Follow this link for more information about the test, including a “self-evaluation” form of the test that you can take at home.
- [Calculus II \(Math 226/227\)](#) This covers more integration techniques and applications, sequences, and infinite series. Prerequisite is Calculus I.
- [Calculus III \(Math 323\)](#) Multi-variable and vector calculus. Prerequisite is Calculus II.
- [Calculus for Business and Management \(Math 220\)](#) Topics in Calculus, primarily for School of Management students and for economics majors in the BS specialization in financial economics. This course will not be accepted as a prerequisite for Calculus II (Math 222). Prerequisite is a passing grade on the [Placement Test](#).
- [Algebra and Trigonometry \(Math 108\)](#) This is the Precalculus course. It is recommended for students who do not have adequate preparation for Calculus.
- The [Math Help Rooms](#) offer free mathematics help most weekdays in Whitney Hall.

### Honors Calculus

The Department of Mathematical Sciences is pleased to continue the **Honors Calculus** course in Fall 2017. Click [Honors Calculus](#) for a flyer of the course. The course number is Math 230. It is run independent of the regular calculus series.

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