

**Mathematics 151C**    **Au, Wi**                            **5 cr. each**    **Calculus and Analytic Geometry**  
**Mathematics 152C**    **Wi, Sp**  
**Mathematics 153C**    **Sp, Au**  
**Mathematics 254C**    **Au, Wi**

\* *Sequence may be discontinued beginning W08.*

**Prerequisite:**

The prerequisites are the same as those for 151, 152, 153, 254. e.g. for 151C the prerequisite is Math 150 (C- or better) or satisfactory score on the mathematics placement test.

**Catalog Description:**

The catalog descriptions are the same as those for 151, 152, 153, 254.

**Purpose of Course:**

This sequence, Calculus & Mathematica, covers the material of Math 151, 152, 153, and 254 in a tutorial fashion, using an electronic "living" textbook on Macintosh computers. The powerful graphing and symbolic manipulation available on microcomputers allows for upgrading the standard calculus courses to provide deeper insights than were previously possible. There are no lectures, only extensive tutorial sessions. Students work in the math lab with supervision and help from faculty and teaching assistants. There is also a weekly discussion session. Math 151C is open to Course Code L freshmen who have the attitude and interest to commit themselves to the course.

**Follow-up Course:**

After finishing 254C, students will be ready to move on to courses in differential equations or linear algebra. Additional Mathematics courses - 255C, 415C, 568C and 513C - are now offered occasionally.

**Text:**

Calculus & Mathematica, Davis, Matheverywhere Inc, ISBN 1-579-55013-4.

For 151C: Calculus & Mathematica: Growth

For 152C: Calculus & Mathematica: Accumulation

For 153C: Calculus & Mathematica: Approximations

For 254C: Calculus & Mathematica: 2D and 3D Measurements