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## Elementary Concepts in Continuous Mathematics

MATH-014\*

MATH-014\* does not serve as a prerequisite for any other course taught by the Department of Mathematics and Statistics. It may not be used as part of a concentration in Mathematics or Statistics. Students who have taken more than two university mathematics courses cannot take this course without special permission.

The content is chosen so that students can engage in doing mathematics without relying on a great deal of mathematical background knowledge. In 2005, the topics were

- Similarity and Growth
- Population Growth
- Symmetry
- Fractals
- Dimension

The nature of the course is influenced by the fact that many students who take it are intending to become teachers.

**Textbook:** *Excursions in Modern Mathematics*, 4th or 5th Edition  
by P. Tannenbaum  
*Flatland*  
by E. A. Abbott

**Prerequisite:** Ontario Grade 10 Mathematics *or* equivalent.

**Instructor:** M. Reece

<b>Evaluation:</b>	Homework	20%
	In-class Work (including Flatland Quiz)	10%
	Midterm Test	30%
	Final Examination	40%