

(—; 3-0-1)

Mathematical Explorations

MATH-382*

This course is designed for students who wish to get a math credit for “the math and poetry course” IDIS-303*. Students do all the required work for IDIS-303* and in addition attend an extra weekly one-hour class and submit assignments at a more advanced level. Topics covered extend some of the IDIS-303* material and come from number theory, geometry, game theory, probability theory and linear algebra. We use an investigative approach, and thus the course can be a valuable pedagogical experience as well as working with interesting elementary mathematics problems. The audience consists of students in a mathematics major or medial program. This course was last offered in Winter 2004 and will be offered in Fall 2006 and every second year.

Textbook: *Notes* of the instructor

Prerequisite: MATH-280*/281* *and* 212* *or* permission of the instructor.

Exclusion: IDIS-303*.

Instructor: P. Taylor

Evaluation:	Assignments	10%
	Midterm Take Home	5%
	Final Take Home	10%
	IDIS Mark	75%