

Mathematics/FSU-Teach  
Spring 2010  
Functions and Modeling – MAT 3930.01

Co-Instructors:  
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Functions and Modeling is a new Math course at FSU aimed primarily at students considering careers in secondary Math teaching. It is required for FSU-Teach Math majors, but all who satisfy the prerequisites are welcome, including other Math majors, FSU-Teach students in other sciences, or others with an interest in deeper understanding of secondary/college mathematics.

The course has no textbook and little lecture; instead, students will work collaboratively on in-class explorations requiring them to analyze, discover, problem-solve, and present their ideas in class. Therefore, class attendance is essential.

The course takes a second look at topics including: the concept of function and its use in modeling data; calculus and its relation to physics and data; regression; conic sections; linear equations and matrices; parametric and polar equations; geometry of complex numbers.

**Course Prerequisite:** MAC 2312 Calculus II or permission. FSU-Teach students should also complete Step 2 prior to this course.

More information: <http://www.math.fsu.edu/~kercheva/>