

INTRODUCTION TO MATHEMATICAL MODELING

Math 151 – 01/H1

Winter Quarter 2005

Tuesday/Thursday 12:00 – 1:15

Topics Include:

**An Overview of the Nature of Mathematical Modeling
Using Regression Techniques to find Functions that “fit” a Data Set
Optimization Problems using a Graphing Calculator
Designing a Computer Model for Pollution Levels in the Great Lakes
The Nobel Prize Winning Leontiff Matrix Model for Economics
Graph Theory – Navigating the Bridges of Konigsberg and “Coloring” a Chemical Warehouse**

**Prerequisite: MAT 116 – College Algebra or
MAT 133 – Tech Math III**

Three Credit Hours, for regular credit *or* [Honors Credit!](#)

(And this course [is](#) in the in the Transfer Module!)

**This is a great opportunity to learn about
the power and usefulness of Mathematics!**

For More Information on the Course, See:

***Karl Hess, Course Instructor, Room 1-330, 512-5305
Ms. Emmilla Ross, Math Dept. Secretary, Room 1-341, 512-2767***

For More Information on Honors Credit, See:

[Tom Martin](#), Room 10-339, www.sinclair.edu/departments/honors