Math 311 Calculus III

Instructor: Edward J Reiser

Office: Henry Hall room 24

Office Hours: After Class

Text Book: Calculus

Authors: Larson, Hostler, Edwards

Course Description:

The goal for the course is to cover chapters 10 though 14 of your book. The major topics are, space curves, surfaces in space, vectors, integration in the plane, integration in space, surface integrals, coordinate systems, functions of several variables, and if time permits Stokes' theorem, Greens' theorem, and Divergence theorem.

Tests and Final:

There will be four tests, which consist of homework problems. Each test is worth 25% of your grade.

Class Philosophy:

The only way to learn mathematics is by doing mathematics. Therefore, in order to be successful in this course it is very important the student does their homework. The lectures will be similar to the material in the book. I basically elaborate on the author's explanations with additional examples. After we are done discussing a given section the student should read that section. Most problems in the book
Are very similar to the examples. If you can understand the examples you can usually solve the problems. Mathematics is a beautiful and useful subject with many applications in physics, biology, technology, business, etc. Throughout the class I will try to point out these applications. I hope you enjoy
The class.