

Physics 5500 or Math 5810

Calculus, Linear Algebra, and Differential Equations with Maple

When: 3:30 – 5:00 p.m.
Monday through Friday, August 28 – September 1
Tuesday – Friday, September 5 – 8

Where: Huntsman 122

Synopsis:

- The purpose of this one credit class is to provide upper-level undergraduate students and beginning graduate students a comprehensive hands-on introduction to the computer algebra system *Maple*.
- Students will learn to solve problems from calculus, linear algebra and differential equations using *Maple*.
- Students will also learn how to write simple programs using *Maple*, although no programming experience is required to take this class.
- Each session will be taught in an interactive/hands-on format by Professor Ian Anderson (Department of Mathematics and Statistics) and Professor Charles Torre (Department of Physics).

Prerequisites: Math 1210, 1220 (Calculus 1 and 2), Math 2210 (Multivariable Calculus), either Math 2270 (Linear Algebra) or Math 2250 (Linear Algebra and Differential Equations) and Math 2280 (Ordinary Differential Equations). Classroom activities will require a portable computer with *Maple* installed. *Maple* is freely available to all current USU students from the Department of Mathematics and Statistics.

Learning and Assessment: Much of the learning – and all the assessment – in this course will take place via several homework assignments which ask the student to apply what they have learned during the class meetings.

USU welcomes students with disabilities. If you have, or suspect you may have, a physical, mental health, or learning disability that may require accommodations in this course, please contact the Disability Resource Center (DRC) as early in the semester as possible (University Inn # 101, 435-797-2444, drc@usu.edu). All disability related accommodations must be approved by the DRC. Once approved, the DRC will coordinate with faculty to provide accommodations.