MA 325  
Spring 2016, 12:50 to 1:40 pm, MWF in SAS 2229  

An Introduction to Applied Mathematics  

by  

Z. Li, M. Chu, H. Tran, M. Singer and E. Stitzinger  

This three-credit course is a survey of applications of mathematics and will be suitable for students who have taken multivariable calculus. The course will enable the student to formulate a cohesive plan of study for the third and/or fourth year, which includes 15-27 elective credits related to applied mathematics. Mathematics education majors will find a variety of applications and a sampling of teaching styles to be very interesting. Also, perspective majors in pure or applied mathematics will find this to be a good survey of mathematics.  

In the spring of 2016 there will be five three-week modules on:  

1. Dimensional Analysis : 01/06 - 01/22 (Z. Li)  
2. Nonlinear Least Squares with Application to GPS : 01/25 – 02/12 (M. Chu)  
3. Population Dynamics : 02/15 – 03/04 (H. Tran)  
4. Google Rank : 03/14 – 04/01 (M. Singer)  
5. Cryptography : 04/04 – 04/22 (E. Stitzinger)  

The modules are motivation for future course work and related academic activities. Some mathematics will have to be developed “as needed”.  

Each module will have one or two traditional homework assignments and a one or two page summary or a final project. The graded work assigned in each module will be worth 20% of the final grade. Each instructor will inform the students at the beginning of the module how much each of these assignments/summary/final project counts.  

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http://www.ncsu.edu/provost/academic_regulations/integrity/reg.htm.