

## Mathematics

### Finite Mathematics with Applications

Course & Class Num: MATH 1313H, 23994  
 Time & Location: MWF 9:00 – 10:00, 347 PGH  
 Instructor: Beatriz Constante

This honors course is mainly about, business and non-business, applications. The topics covered are: functions, solving systems of linear equations, mainly, by using matrices, an introduction to linear programming, mathematics of finance, sets and counting techniques, and probability and statistics.

### Accelerated Calculus I

Course & Class Num: MATH 1450H, 24132  
 Time & Location: TTH 2:30 – 4:00, 202 SEC  
 Lab Information: MATH 1450H, 24134;  
 MW 11:00 - 12:00, PGH 345  
 Instructor: Matthew J. Nicol

This is the first part of a two-semester sequence which covers several topics: differential and integral single-variable calculus; sequences and series; an introduction to vector geometry and elementary linear algebra. It is a fast paced course. Emphasis is placed on conceptual understanding, the development of problem solving skills and logical thinking.

### Engineering Mathematics

Course & Class Num: MATH 3321H, 32842  
 Time & Location: MWF 11:00 – 12:00, 203 SEC  
 Instructor: Jeffrey Morgan

Honors Math 3321 is an introduction to differential equations that includes first order nonlinear and higher order linear equations, Laplace transforms, an introduction to linear algebra, systems of first order equations, asymptotic behavior, and numerical methods. The students in the course will learn solution techniques, use numerical packages to explore, and encounter a generous supply of applications.

## Mechanical Engineering

### Design Analysis and Synthesis

*(Petition for Honors credit)*

Course & Class Num: MECE 2361, 24710  
 Time & Location: M 5:30 – 7:30, W205 D3  
 Lab Times & Sections: MECE 2361, 24712;  
 W 5:30 – 8:30, D S385  
 MECE 2361, 24714;  
 W 1:00 – 4:00, LECT2, D2  
 Instructor: Richard B. Bannerot

This course is an introduction to design in general and engineering design in particular. Topics covered include the design process, communications, manufacturing processes, statistics, codes and standards, working in groups, engineering ethics, intellectual property issues, and creativity. A major theme of the course is that design is an interdisciplinary, problem-solving activity, and “design skills” are easily extended to many aspects of our lives.

About 40% of the course is devoted to the major design project, in which groups of four students work to design and construct a device which must perform a specified function within a given set of constraints. Three or four additional individual projects are also assigned. Students petitioning for Honors credit will meet with Dr. Bannerot to discuss appropriate enrichment activities.

## Medicine and Society

*For a detailed description on the Program in Medicine and Society and information on the minor offered through the program, please visit pages 7-9.*

### Readings in Medicine & Society

Course & Class Num: HON 3301H, 22512  
 Time & Location: Th 4:00 – 7:00, 212S L  
 Instructor: Helen K. Valier

See page 27 for complete course description.