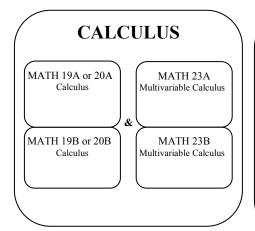
# Applied Math and Statistics Minor in Applied Mathematics Curriculum Chart 2011-2012



# LINEAR ALGEBRA and DIFFERENTIAL EQUATIONS

AMS 10 Mathematical Methods for Engineers I

AMS 20 Mathematical Methods for Engineers II MATH 21\* Linear Algebra

OR

MATH 24\* Differential Equations PHYS 116A\* Mathematical Methods in Physics

PHYS 116B\* Mathematical Methods in Physics

# PROBABILITY THEORY

AMS 131 Introduction to Probability Theory

OR

CE 107 Mathematical Methods of Systems Analysis: Stochastic

### INTRODUCTION TO NUMERICAL METHODS

AMS 147 Computational Methods & Applications OR PHYS 115
Computational
Physics

OR EART 119
Introduction to
Scientific Computing

### DYNAMICAL SYSTEMS

AMS 114 Introduction to Dynamical Systems

OR

AMS 214
Applied Dynamical Systems

## PARTIAL DIFFERENTIAL EQUATIONS

AMS 212A Applied Mathematical Methods I

OR

PHYS 116C Mathematical Methods in Physics

OR

OR

MATH 107 Partial Differential Equations

### APPLIED MATH ELECTIVE

**Choose one:** AMS 107/217, AMS 115/215, AMS 132, AMS 198, AMS 212B, AMS 213, AMS 216, AMS 231, OR AMS 290B

(Students may also propose other electives which use applied mathematical methods, subject to approval by the department.)

### **Information on the Applied Mathematics Minor**

The applied mathematics minor is available for students who wish to develop (1) proficiency in modeling real-life problems using mathematics and (2) knowledge of standard, practical analytical and numerical methods for the solution of these models. This minor could be combined with a major in any of the physical, biological, mathematical, or engineering sciences as preparation for a graduate degree in that field or in applied mathematics.

<sup>\*</sup>Students who complete Math 21 and 24 or Phys 116A and 116B in lieu of AMS 10 and 20, are strongly recommended to complete the Matlab self-paced tutorial at: <a href="http://matlab-training.soe.ucsc.edu/">http://matlab-training.soe.ucsc.edu/</a>

### APPLIED MATH AND STATISTICS: APPLIED MATHEMATICS MINOR DEGREE CURRICULUM

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Fall	Winter	Spring	Summer
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TUDENT'S NAME:			

STAFF ADVISOR: