Applied Math and Statistics: Applied Math Minor
Curriculum Chart: 2013-2014

CALCULUS

MATH 19A or 20A
Calculus

MATH 23A
Multivariable Calculus

&

MATH 19B or 20B
Calculus

MATH 23B
Multivariable Calculus

LINEAR ALGEBRA and DIFFERENTIAL EQUATIONS

AMS 10
Mathematical Methods for Engineers I

AMS 20
Mathematical Methods for Engineers II

OR

MATH 21*
Linear Algebra

MATH 24*
Differential Equations

OR

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

MATH 107
Partial Differential Equations

APPLIED MATH ELECTIVE

Choose one: AMS 107/217, 115/215, 118, 132, 198, 212B, 213, 216, 231, 290B; EE 103, 154; CMPE 115; MATH 103A, 117, 121A; PHYS 105, 139A, 139B, 171

Students may also propose other electives which use applied mathematical methods (e.g. relevant courses from Mathematics, Physics, Chemistry, Earth Sciences, Ocean Sciences, Ecology & Evolutionary Biology, etc.), 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.

*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: http://matlab-training.soe.ucsc.edu/

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Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

Fall _____	Winter _____	Spring _____	Summer _____

STUDENT'S NAME:

STAFF ADVISOR: