Applied Math Minor 2021-2022 Curriculum Chart

Linear Algebra & Differential Equations Calculus Complete one sequence **AM 10 MATH 21*** Math Methods for **MATH 19A MATH 19B** Linear Algebra Engineers I **PHYS 116A*** Calculus for Sci., & Calculus for Sci., Engr. & Math Engr. & Math Math Methods in OR OR **Physics MATH 24*** OR **AM 20** Differential Math Methods for MATH 20A MATH 20B Equations & Engineers II Honors Calculus Honors Calculus *Students who complete Math 21 and 24 or Physics 116A are strongly recommended to complete the MATLAB self-paced tutorial at: http://matlab-training.soe.ucsc.edu/ Multivariable Calculus Complete one sequence **Probability Theory MATH 23B CSF 107** MATH 23A **STAT 131** & OR Vector Calculus Vector Calculus Introduction to Probability Probability & Statistics for Engineers Theory OR AM 30 AM 100 Multivariate Mathematical & Calculus for Methods for **Dynamical Systems** Engineers Engineers AM 114 OR AM 214** Introduction to Dynamical Applied Dynamical Systems Systems Applied Math Elective **ELECTIVE* Numerical Methods** AM 147 *Choose one elective from the following list: **PHYS 115** Computational Methods & Computational Physics OR Applications AM 107/217 AM 231 **MATH 117 MATH 121A** AM 115/215 AM 232 AM 250 **PHYS 105** AM 129 AM 198 **ASTR 171 PHYS 107** AM 212B ECE 103 **PHYS 139A PHYS 139B** AM 213A **ECE 115 Partial Differential Equations** AM 213B ECE 141 **PHYS 171** AM 216 MATH 103A **STAT 132** AM 112 AM 212A* Students may also propose other electives OR **PHYS 116C** OR **MATH 107** Introduction to OR Applied which use applied mathematical methods (e.g. Partial Math Partial Partial relevant courses from Mathematics, Physics, Methods in Differential Differential Differential Chemistry, Earth Sciences, Ocean Sciences, **Physics** Equations Equations Equations Ecology & Evolutionary Biology, etc.), subject to approval by the department.

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 intending to do graduate work in Applied Math should take AM 212A and AM 214 instead of AM 112 and AM 114.

Applied Math Minor 2021-2022 Curriculum Chart

Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
Fall	Winter	Spring	Summer
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Fall	Winter	Spring	Summer
Student Name:			
Staff Advisor:			
Otali Mayioti.			

Faculty Advisor: