

Sample AS&T Ph.D. Program in

Computational and Applied Mathematics

<i>Year 1</i>	<i>Fall</i>	<i>Spring</i>
PHYSICS 221, Quantum Mechanics	5	-
MATH 228A/B, Numerical Solution of Differential Equations	4	4
PHYSICS 205, Advanced Dynamics ¹	-	4
AST 299, Individual Research	3	4
Total	12	12

<i>Year 2</i>		
MATH 222A/B, Partial Differential Equations ¹	4	4
MATH 221, Advanced Matrix Computations	-	3
CS 294, Software Engineering for Scientific Computing	3	-
CS 267, Applications of Parallel Computers	-	3
AST 299, Individual Research ³	5	1
Total	12	12

<i>Year 3</i>		
NUCENG 180, Introduction to Controlled Fusion	3	-
ME C213, Fluid Mechanics of Biological Systems	-	3
AST 299, Individual Research ³	9	9
Total	12	12

<i>Year 4</i>		
AST 299, Individual Research ³	12	12
Total	12	12

<i>Year 5</i>		
AST 299, Individual Research ³	12	12
Total	12	12

¹A 12-unit minor field connected to computational mathematics should be established in consultation with the student's research advisor and major field advisor.

²Student generally enrolls in the 298 seminar offered by his/her research advisor.

³Alternatively, student may enroll in a departmental 299 course; student should consult with research advisor.