Sample AS&T Ph.D. Program in
Computational Science and Engineering

Year 1	*Fall*	*Spring*
NE 250, Nuclear Reactor Theory	4	-
MATH 228A/B, Numerical Solution of Differential Equations	4	4
CS 294, Software Engineering for Scientific Computing	3	-
ENG 266B, Spectral Methods for Fluid Dynamics	-	4
CS 267, Applications of Parallel Computers	-	3
AST 299, Individual Research	1	1
Total	**12**	**12**

Year 2		
ME 280A/B, Introduction to the Finite Element Method	3	3
ME 262, Hydrodynamic Stability and Instability	3	-
NE 255, Numerical Simulation in Radiation Transport	3	-
CS 252, Graduate Computer Architecture	-	4
AST 299, Individual Research[3]	3	5
Total	**12**	**12**

Year 3		
MATH 224A, Mathematical Methods for the Physical Sciences	4	-
MATH 221, Numerical Linear Algebra	-	3
AST 299, Individual Research[3]	8	9
Total	**12**	**12**

Year 4		
AST 299, Individual Research[3]	12	12
Total	**12**	**12**