Department of Mathematics and Statistics: Doctoral Plan Of Study

Student:	 Program:	Ph.D. in Computational Mathematics
Advisor:		

Coursework (minimum 48 credit hours)

	Semester & Year
Choose at least 48 credit hours of approved coursework.	
STA 642 Statistical Computing	
STA 651 Mathematical Statistics	
STA 652 Mathematical Statistics	
STA 661 Advanced Statistics in the Behavioral and Biological Science	s I
STA 662 Advanced Statistics in the Behavioral and Biological Sciences	; II
STA 671 Multivariate Analysis	
STA 673 Statistical Linear Models	
STA 675 Advanced Experimental Design	
STA 676 Sample Survey Methods	
MAT 701 Graduate Seminar in Computational Mathematics (credit hours)	
STA 701 Seminar in Computational Statistics (credit hours)	
MAT 709 Topics in Computational Mathematics (credit hours)	
STA 709 Topics in Computational Statistics (credit hours)	
MAT 721 Mathematical Cryptography	
MAT 723 Numerical Mathematics	
MAT 724 Numerical Mathematics	
MAT 726 Finite Element Methods	
MAT 727 Linear Algebra and Matrix Theory	
MAT 728 Linear Algebra and Matrix Theory	
MAT 731 Combinatorics	
MAT 732 Graph Theory	
\square MAT 735 Ordinary Differential Equations	

	MAT 736 Partial Differential Equations		
	MAT 737 General Topology		
	MAT 738 General Topology		
	MAT 740 Modern Abstract Algebra		
	MAT 741 Modern Abstract Algebra		
	MAT 742 Computational Number Theory		
	MAT 743 Complex Analysis		
	MAT 745 Real Analysis		
	MAT 746 Real Analysis		
	MAT 747 Computational Topology		
	MAT 748 Computational Algebra		
	MAT 790 Directed Doctoral Research (credit hours)		
	MAT 799 Dissertation (credit hours)		
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Choose	e additional electives that do not count toward the require	d 48 hours.	
	MAT 595 Mathematical Analysis		
	MAT 596 Mathematical Analysis		
	MAT 601 Seminar in the Teaching of Mathematics I $$		
	MAT 602 Seminar in Mathematical Software		
	MAT 603 Practicum in the Teaching of Mathematics		

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Month & Year

Written component Chose two areas.						
Mathematical Analysis						
Linear Algebra and Matrix Theory						
Mathematical Statistics						
Oral component						
Disserta	TION RESEARCH					
Include 18–21 credit hours of MAT 799 Dissertation in required 48 hours.						
Dissertation committee:		(Chair)				
-						
- Oral topic proposal and defense						
Written dissertation research outline						
Oral dissertation presentation and defe	ense					
SI	GNATURES					
Sign and print below.						
Student:	_ Date:					
DGS:	Date:					