VCU

Date____

Student ID #_____

Virginia Commonwealth University

B.S. IN MATHEMATICAL SCIENCES

2005-06

D.J. IN WATTEWATICAL SCIENCE	.3		2003-00
	General Education	on Requirements	
Writing ENGL 101 Writing & Rhetoric I (C grade or better required)	Credits Grade	Visual & Performing Arts: Take 2-3 credits from Approved List E.	Credits Grade
ENGL 200 Writing & Rhetoric II (C grade or better required; must complete 24 credits before enrolling)		Literature: Take a literature course from Approv	ved List F.
Writing Intensive: 2 WI courses required, at least major. See Approved List A . MATH 490 Mathematical Expositions (also fulfills a major requirement)	one must be in the	Civilization: Take 1 course from each area listed but no more than 6 credits in any one discipline 0	
Math & Statistics:		credit interdisciplinary courses (8 credits total) th elements of each area. Historical and Cultural Origins: 1 course from Approved List G.	at combine
MATH 151 Pre-calculus (MATH 141 or Placement)		American (U.S.) Studies: 1 course from Approved List H.	
Ethical Principles: Select a course from Approved	d List C.	Global Studies: 1 course from Approved List I.	
Natural Sciences: Complete one of the following s courses with lab: BIOL 151-152 OR PHYS 207-208 202 OR CHEM 101-102.		Foreign Language: Must demonstrate competer level by course or placement test. 101 level	ency through 102
		102 level	
Complete another course with lab in the natu Approved List D. This course must be in the biolog above sequence was in PHYS or CHEM OR must sciences if the BIOL sequence was selected.	gical sciences if the	Human Behavior: Take 2 courses in different d Approved List J.	isciplines from
Complete one other course in the natural sciences minor or second major offered outside the Departm Mathematical Sciences. Students in the Extended Preparation program are considered to have a second the Department of Mathematical Sciences.	ent of Teacher	Urban Environment: Take 1 course from Appro	oved List K.

Has VCCS Associate Degree______

NAME

The Bachelor of Science degree awarded by the Department of Mathematics and Applied Mathematics requires a minimum of 41 credits above the 100 level in courses labeled MATH, OPER, or STAT. Students choose the concentration in mathematics, applied mathematics or secondary mathematics teacher preparation. At least 24 of these credits must be at the 300-500 levels.

Applied Mathematics

MATH 301 Differential Equations; MATH 512 Complex Analysis for Applications; MATH 517-518 Methods of Applied Mathematics; and six additional upper-level credits in mathematical sciences. (MATH 302 Numerical Calculus, MATH 437 Applied Partial Differential Equations, and MATH 511 Applied Linear Algebra are recommended.)

Mathematics

MATH 501 Intro to Abstract Algebra; MATH 507-508 Analysis I-II; MATH 509 General Topology; and six additional upper-level credits in mathematical sciences.

Secondary Teacher Preparation

MATH 327 Mathematical Modeling; MATH 504 Algebraic Structures and Functions; MATH 505 Modern Geometry; MATH 507 Analysis I; MATH 530 History of Mathematics; MATH 554 Using Technology in the Teaching of Mathematics

CONCENTRATION___

Mathematics Core: Required for all Mathematical Science majors.	Credits	Grade
MATH 200 Calculus with Analytic Geometry I		
STAT 212 Concepts of Statistics		
MATH 201Calculus with Analytics Geometry II		
MATH 255 Introduction to Computational		
Mathematics		
MATH 300 Introduction to Mathematical		
Reasoning		
MATH 307 Multivariate Calculus		
MATH 310 Linear Algebra		
MATH 490 Mathematical Expositions		

Concentration: Other required courses in mathematics				

Electives: Select additional courses to satisfy the 120 credits needed to graduate.	Credits	Grade

Additional degree requirements

- Cumulative 2.00 GPA
- 2.00 GPA in the major
- 45 credits in upper level courses or the equivalent
- □ 120 Total Earned Hours
- 30 At least 30 of the last 45 credits taken at VCU
- Computer literacy requirement (must either pass Computer Proficiency Assessment or pass INFO 160,161, & 162 courses or equivalent transfer course)