

TEXAS A&M UNIVERSITY CORPUS CHRISTI  
 MASTER OF SCIENCE IN MATHEMATICS - 2011-12 CATALOG  
**APPLIED AND COMPUTATIONAL MATHEMATICS**

SAMPLE  
ONLY

Name: \_\_\_\_\_  
 ID#: \_\_\_\_\_

**COMPETENCY REQUIREMENTS**

MATH	3311	LINEAR ALGEBRA	
MATH	3315	DIFFERENTIAL EQUATIONS	
MATH	3470	CALCULUS III	
MATH	4342	INTRODUCTION TO MATH STATISTICS	

**COMPLETED**

**CORE COURSES (21 HOURS)**

		LOCATION	TERM	GRADE	HRS.
MATH	5333	NUMERICAL LINEAR ALGEBRA	TAMUCC		3
MATH	5336	ADVANCED DIFFERENTIAL EQUATIONS	TAMUCC		3
MATH	5337	THEORY & APPLICATIONS OF PD EQUATIONS	TAMUCC		3
MATH	5339	NUMERICAL ANALYSIS	TAMUCC		3
MATH	5342	LINEAR STATISTICAL MODELS	TAMUCC		3
MATH	5348	OPTIMIZATION	TAMUCC		3
MATH	5351	REAL ANALYSIS	TAMUCC		3
					<b>21</b>

**ELECTIVES (CHOOSE 9 HOURS FROM THIS LIST)**

MATH	5343	ADVANCED MATHEMATICAL STATISTICS	TAMUCC		3
MATH	5344	SPATIAL STATISTICS	TAMUCC		3
MATH	5360	COMBINATORICS AND GRAPH THEORY	TAMUCC		3
MATH	5375	APPLIED ANALYSIS	TAMUCC		3

WITH PRIOR APPROVAL FROM THE DEPARTMENT CHAIR, A STUDENT MAY SELECT OFFERINGS OF:

MATH	5390	SPECIAL TOPICS IN MATHEMATICS	TAMUCC		3
MATH	5396	DIRECTED INDEPENDENT STUDY	TAMUCC		3

OR GRADUATE COURSES OUTSIDE THE DEPARTMENT AS ELECTIVES.  
 PROPER DOCUMENTATION IS REQUIRED.

**THESIS (6 HOURS)**

MATH	5394	RESEARCH METHODS IN MATHEMATICS	TAMUCC		1
					1
					1
MATH	5995	THESIS	TAMUCC		3
					<b>6</b>

NOTE: Each student in the Applied and Computational Mathematics option will take MATH 5394 as a co-requisite to the core courses for one to three semesters, for a total of three semester hours.

**REQUIREMENT SUMMARY:**

TRANSFER HOURS (MAX 6)		<b>TOTAL HOURS:</b>	36
5000 LEVEL HOURS (MIN 30)		<b>GPA (MIN. 3.0):</b>	
RESIDENCY HOURS (MIN 30)			