

TEXAS A&M UNIVERSITY CORPUS CHRISTI
 MASTER OF SCIENCE IN MATHEMATICS - 2019-2020 CATALOG
STATISTICS OPTION

Name: _____

ID#: _____

COMPETENCY REQUIREMENTS

5310 MATH Linear Algebra _____
 5310 MATH Statistical modeling and Data Analysis
 or Applied Probability and Statistics _____
 5310 MATH CALCULUS III _____

CORE COURSES (12 HOURS)

LOCATION if not TAMUCC	Grade	HRS.	TERM
MATH 5341 <u>Statistical Methods and Data Analysis</u>	_____	<u>3</u>	_____
MATH 5342 <u>Linear Statistical Models</u>	_____	<u>3</u>	_____
MATH 5343 <u>Mathematical Theory of Statistics</u>	_____	<u>3</u>	_____
MATH 5345 <u>Computational Methods for Statistics</u>	_____	<u>3</u>	_____

ELECTIVES from MATH or closely related field (15-18 SCH)

MATH 5333 <u>Numerical Linear Algebra</u>	_____	<u>3</u>	_____
MATH 5336 <u>Advanced Differential Equations</u>	_____	<u>3</u>	_____
MATH 5339 <u>Numerical Analysis</u>	_____	<u>3</u>	_____
MATH 5348 <u>Optimization</u>	_____	<u>3</u>	_____
MATH 5351 <u>Real Analysis</u>	_____	<u>3</u>	_____
MATH 5360 <u>Combinatorics and Graph Theory</u>	_____	_____	_____
MATH 5375 <u>Applied Analysis</u>	_____	_____	_____
MATH 6344 <u>Spatial Statistics</u>	_____	<u>3</u>	_____
MATH 5337 <u>Theory and Applications of PD Equations</u>	_____	<u>3</u>	_____
<i>WITH PRIOR APPROVAL FROM THE DEPARTMENT CHAIR, A STUDENT MAY SELECT OFFERINGS OF:</i>			
MATH 5390 <u>Special Topics in Mathematics</u>	_____	<u>3</u>	_____
MATH 5396 <u>Directed Independent Study</u>	_____	<u>3</u>	_____
<i>OR GRADUATE COURSES OUTSIDE THE DEPARTMENT AS ELECTIVES.</i>			
<i>PROPER DOCUMENTATION IS REQUIRED.</i>			
		15	

THESIS (6-9 HOURS)

MATH 5394 <u>Proposal Research 3 SCH required</u>	TAMUCC	_____	<u>3</u>	_____
MATH 5995 <u>THESIS or</u>	TAMUCC	_____	<u>3</u>	_____
MATH 5997 <u>PROJECT</u>	TAMUCC	_____	<u>3</u>	_____

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.

TOTAL HOURS: 36

GPA (MIN. 3.0): _____