TEXAS A&M UNIVERSITY CORPUS CHRISTI
MASTER OF SCIENCE IN MATHEMATICS - 2019-2020 CATALOG
**APPLIED AND COMPUTATIONAL MATHEMATICS**

Name: _____

ID#: _____

**COMPETENCY REQUIREMENTS**

| | | | |
|---|---|---|---|
| 5310 | MATH | LINEAR ALGEBRA | _____ |
| 5310 | MATH | DIFFERENTIAL EQUATIONS | _____ |
| 5310 | MATH | CALCULUS III | _____ |
| 5310 | MATH | INTRODUCTION TO ANALYSIS | _____ |

| | | | LOCATION | Grade | HRS. | TERM |
|---|---|---|---|---|---|---|
| **CORE COURSES (12 HOURS)** | | | | | | |
| MATH | 5333 | NUMERICAL LINEAR ALGEBRA | TAMUCC | | 3 | |
| MATH | 5336 | ADVANCED DIFFERENTIAL EQUATIONS | TAMUCC | | 3 | |
| MATH | 5339 | NUMERICAL ANALYSIS | TAMUCC | | 3 | |
| MATH | 5351 | REAL ANALYSIS | TAMUCC | | 3 | |
| **ELECTIVES from MATH or closely related field (1518 SCH)** | | | | | | |
| MATH | 5337 | THEORY & APPLICATIONS OF PD EQUATIONS | TAMUCC | | 3 | |
| MATH | 5342 | LINEAR STATISTICAL MODELS | TAMUCC | | 3 | |
| MATH | 5343 | MATHEMATICAL THEORY of STATISTICS | TAMUCC | | 3 | |
| MATH | 6344 | SPATIAL STATISTICS | TAMUCC | | 3 | |
| MATH | 5348 | OPTIMIZATION | 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.* | | | | | 15 | |
| *PROPER DOCUMENTATION IS REQUIRED.* | | | | | | |
| **THESIS (6-9 HOURS)** | | | | | | |
| MATH | 5394 | PROPOSAL RESEARCH (1-3 credits) 3 SCH required | TAMUCC | | 3 | |
| MATH | 5995 | THESIS | TAMUCC | | 3 | |
| | | | | | 9 | 0 |

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)**:**