Master of Science in Computational and Applied Mathematics

(This elevation was approved by the CSULB Academic Senate on March 9, 2023, approved by the President on March 15, 2023, and the CSU Chancellor's Office on May 18, 2023.)

Previous Option Title: MS in Mathematics, Option in Applied Mathematics

successfully model and solve math
The degree is grant to students wh
pass two comprehensive examinat

Prerequisites

A bachelor's degree in mathematic
upper division units in mathematics

A grade of "C" or better in the follo
Deficiencies will be determined by

- MATH 247 - Introduction
- MATH 323 - Introduction
- MATH 361A - Introductio
- MATH 361B - Introductio
- MATH 364A - Ordinary D
- MATH 380 - Probability a
- or their equivalents

Advancement to Candidacy

In addition to University requireme
listed above, with no grade less tha
completion of at least six units of a
study must be approved by the app
in the College of Natural Sciences

Requirements

A minimum of 30 graduate and upper division units

A minimum of 30 graduate and upper division units approved by the Graduate Advisor, and including:

Three of the following courses:

- MATH 563 - Applied Analysis (3 units)
- MATH 570 - Partial Differential Equations (3 units)
- MATH 576 - Numerical Analysis (3 units)
- MATH 579 - Advanced Mathematical Modeling (3 units)

Three additional courses selected from the following courses:

- MATH 520 - Finite Element Method (3 units)
- MATH 521 - Matrix Method in Data Analysis and Pattern Recognition (3 units)
- MATH 564 - Applied Nonlinear Ordinary Differential Equations (3 units)
- MATH 573 - Advanced Scientific Computing (3 units)
- MATH 574 - Stochastic Calculus and Applications (3 units)
- MATH 575 - Calculus of Variations (3 units)
- MATH 577 - Numerical Solution of Partial Differential Equations (3 units)
- MATH 578 - Numerical Linear Algebra (3 units)
- and the course in the previous section not used to satisfy that requirement.

Complete one of the following culminating activities

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most 6 units of MATH 698.

EFFECTIVE: Fall 2024

Academic Plan Code MATHMS02PB

Career: Graduate

CIP: 27.0304

CSU Code: 17033

Concentration Code: 01

College: 65, Natural Science and Mathematics

Department Mathematics and Statistics

Delivery: Face-to-Face

STEM Eligible