## Originating Unit Math

Type of action: $\square$ change in course $\triangle$ change in program

## Type of change requested:

| $\square$ Number  <br>  $\square$ Course Title <br> $\square$ Description $\square$ Prerequisite(s) Program |  |  |
| :--- | :--- | :--- |
| $\square$ | Drop Course | $\square$ | Requirements

Semester and year course/program will take effect: Fall 2022

## Course instructional methodology:

course component types: ugradcouncil.tcu.edu/forms/Course Component Types.pdf

Current name: Mathematics, MS, Applied Mathematics Option
Proposed name:
Appropriate computer abbreviation (30 spaces or less):

## Programs Only

Current program code:
(ex:EDCE-PHD)

Proposed code (list 2)
or
Current CIP code: 27.0101
Does the change require a new or change in CIP code: $\square$ Yes $\square$ No If yes, what is the proposed new CIP code:
*for reference please visit: nces.ed.gov/ipeds/cipcode/resources.aspx?y=56 Is the program already considered TCU STEM:
$\checkmark$ Yes $\square$ No

Does the change include a request to be a TCU STEM program: $\square$ Yes $\square$ No

Description of change (omit if dropping a course or program):
Update Math MS description to reflect change to Game Theory course number

## Present Catalog Copy

Applied Mathematics Option:
This track of the MS Program is intended for students planning to use mathematics in careers outside academia. Each student selecting this track will take at least four applied mathematics courses from the list below:

MATH 50613
Partial Differential Equations
3
MATH 50623
Applied Mathematics I
3
MATH 60103
Graph Theory

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MATH 60543
Numerical Analysis
3
MATH 60553
Modern Fourier Analysis
3
MATH 60603
Game Theory
3
MATH 60613
Differential Equations of Mathematical Physics
3
MATH 60633
Applied Mathematics II
3
MATH 60643
Dynamical Systems and Applications
3

Up to 6 hours of the applied mathematics courses may be substituted with graduate coursework taken in the departments of Biology, Chemistry,
Computer Science or Physics \& Astronomy, or from Geological Sciences or Environmental Sciences, with approval from the student's graduate advisor in the Department of Mathematics.

## Proposed Catalog Copy:

[NOTE: APPLIED MATHEMATICS I and II WERE REMOVED FROM THE PROGRAM THROUGH ANOTHER PROPOSAL EARLY THIS SEMESTER - THE ONLY PROPOSED CHANGE NOW IS THAT TO THE COURSE NUMBER FOR GAME THEORY]

Applied Mathematics Option:
This track of the MS Program is intended for students planning to use mathematics in careers outside academia. Each student selecting this track will take at least four applied mathematics courses from the list below:
MATH 50613
Partial Differential Equations
3
MATH 60103
Graph Theory
3
MATH 60543
Numerical Analysis
3
MATH 60553
Modern Fourier Analysis
3
MATH 60613
Differential Equations of Mathematical Physics
3
MATH 60653
Game Theory
3
MATH 60643
Dynamical Systems and Applications 3

Up to 6 hours of the applied mathematics courses may be substituted with graduate coursework taken in the departments of Biology, Chemistry, Computer Science or Physics \& Astronomy, or from Geological Sciences or Environmental Sciences, with approval from the student's graduate advisor in the Department of Mathematics.

Supporting evidence or justification:
This change also reflects the proposed change to the course number of Game Theory from Math 60603 to Math 60653.

Explain how the change(s) will affect the current outcomes and assessment mechanisms? It will not.

Additional resources required
Faculty:

Space:

Equipment:

Library:

Financial Aid:

Other:

Change in teaching load:
Does this change affect any other units of the University? Yes $\square$ No $\boldsymbol{\nearrow}$
If yes, submit supporting statement signed by chair of affected unit.

If cross-listed, provide evidence of approval by all curriculum committees appropriate to both the originating and the cross-listed units.

Chair of Originating Unit:

Name: Greg Friedman
Unit: Math
signature: Greg Friedman

