GRADUATE COUNCIL

PROPOSAL FOR CHANGE IN EXISTING COURSE/PROGRAM

ORIGINATING UNIT: Mathematics

TYPE OF ACTION:

_____ Change in existing course

____X_____ Change in existing program

TYPE OF CHANGE REQUESTED:

_____ Number **_____ Title**

_____ Description **_____ Prerequisite(s)**

_____ Drop course/program **_____X_____ Program Requirements**

_____ Other (specify) _____

Current CIP Code (programs only): 27.0101

Does the change require a new or change in CIP Code: ___Yes _X__No

If yes, what is the proposed new CIP code? _____
*for reference please visit: https://nces.ed.gov/ipeds/cipcode/resources.aspx?y=56

Semester and Year Change(s) take effect: Fall 2020

Is the program already considered TCU STEM? Yes
Does the change include a request to be a TCU STEM program? No

Appropriate Computer Abbreviation (30 spaces or less):

DESCRIPTION OF CHANGE – highlight, **bold**, *italics*, or otherwise identify parts that are changed in proposed copy (omit if dropping a course or program):

The proposed change is to add MATH 60883 to the Mathematics MS, Applied Mathematics

Present catalog copy:

(Note: this catalog copy is based on changes already approved by Graduate Council this semester but not yet reflected in the published catalog)

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	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
MATH 60663	Numerical Analysis	3
Math 60853	Regression & Time Series	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:

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MATH 60613	Differential Equations of Mathematical Physics	3
MATH 60633	Applied Mathematics II	3
MATH 60643	Dynamical Systems and Applications	3
MATH 60663	Numerical Analysis	3
Math 60853	Regression & Time Series	3
Math 60883	Predictive Modeling	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:

The newly-proposed MATH 60883 Predictive Modeling is an applied mathematics course and so is suitable to satisfy the intent of the current requirements for the Applied Mathematics Option of the MS in Mathematics. The proposed program change therefore provides students with an additional course option while remaining consistent with the existing learning outcomes of the program.

Explain how the change(s) will affect the current outcomes and assessment mechanisms?

The proposed change will not affect the current program-level outcomes or assessments.

ADDITIONAL RESOURCES REQUIRED:

Faculty: No additional resources are required.

Space: No additional resources are required.

Equipment: No additional resources are required.

Library: No additional resources are required.

Other:

CHANGE IN TEACHING LOAD:

Does this change affect any other units of the University? _____ Yes _X____ No

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: **Signature:** Greg Friedman

Name: ____Greg Friedman_____

Unit:___Math_____

Revised 12/2019