

UNDERGRADUATE COUNCIL **Request for Change(s)**

Originating unit requesting change _____ Math _____

Type of Change requested:

- | | | |
|---|---|--|
| <input type="checkbox"/> Course number(s) | <input type="checkbox"/> Course prerequisite(s) | <input type="checkbox"/> Program title |
| <input type="checkbox"/> Course title | <input type="checkbox"/> Drop course(s) | <input type="checkbox"/> Program description |
| <input type="checkbox"/> Course description | <input type="checkbox"/> Drop program(s) | <input checked="" type="checkbox"/> Program requirements |

Semester and year change(s) take effect: _____ Fall 2020 _____

Appropriate computer abbreviation if course title is more than 30 spaces: _____ N/A _____

Briefly summarize the change requested:

Allow MATH 40853 Regression & Time Series to satisfy one of the “programming course” requirements for Track 2 of the Math BS.

Catalog copy

Present catalog copy (paste-up from catalog is acceptable).

Math BS Track 2

The student must take an additional twelve hours of mathematics courses, including MATH 40223 or MATH 40663, from among the following:

- MATH 30803 Probability
- MATH 40103 Graph Theory
- MATH 40223 Applied Linear Algebra
- MATH 40553 Modern Fourier Analysis
- MATH 40633 Game Theory
- MATH 40643 Dynamical Systems
- MATH 40663 Numerical Analysis
- MATH 50403 Complex Analysis
- MATH 50503 Real Analysis I
- MATH 50613 Partial Differential Equations
- MATH 50623 Applied Mathematics I

Proposed change(s). (Include exact catalog copy as desired. Underline changes)

Math BS Track 2

The student must take an additional twelve hours of mathematics courses, including one of MATH 40223 or MATH 40663 or MATH 40853, from among the following:

- MATH 30803 Probability
- MATH 40103 Graph Theory
- MATH 40223 Applied Linear Algebra
- MATH 40853 Regression & Time Series
- MATH 40553 Modern Fourier Analysis
- MATH 40633 Game Theory
- MATH 40643 Dynamical Systems
- MATH 40663 Numerical Analysis
- MATH 50403 Complex Analysis
- MATH 50503 Real Analysis I
- MATH 50613 Partial Differential Equations
- MATH 50623 Applied Mathematics I

1. What is the justification for the change(s) requested?

Students pursuing the BS in Mathematics, Track 2, must currently take either MATH 40223 Applied Linear Algebra or MATH 40663 Numerical Analysis. The reason for this requirement is for students to take an applied mathematics course that involves programming. The newly-proposed MATH 40853 Regression & Time Series is also an applied mathematics course that requires programming and so is suitable to satisfy the intent of the current requirements. The proposed program change therefore provides students with an additional course option that remains consistent with the existing learning outcomes of the program.

2. If applicable, explain how the change(s) will affect the current program outcomes and assessment mechanisms.

This change will not affect the overall program outcomes or assessment mechanisms.

3. **Faculty Resources:** How will the unit provide faculty support for this change and any other impact this change may have on other current departmental listings.

This course is already being taught by a new faculty member and so will not require additional staffing. Adding this course as an option may result in slightly lower enrollments in MATH 40223 Applied Linear Algebra or MATH 40663 Numerical Analysis, though it is not anticipated that these enrollment shifts will be sufficient to disrupt the viability of those courses.

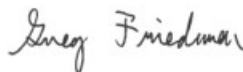
4. **Educational Resources:** Will this change require additional resources not currently available (e.g. space, equipment, library, other)?
If yes, list additional resources needed.

☐
☒

YES
NO

5. If this change affects other units of the University, include a statement signed by the chairperson(s) of the affected unit(s).
N/A

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



Approval signature of chairperson of originating unit